

# GREATER EFFICIENCY WITH A SYSTEM

**2020**  
**2021**

Products and solutions for intra-company material flow.

**[ssi-schaefer.com](https://ssi-schaefer.com)**



**SSI SCHÄFER**



## **SSI SCHAEFER – ALWAYS THE RIGHT SOLUTIONS FOR OUR CUSTOMERS**

More than 80 years ago, the foundation was laid for the SSI SCHAEFER Group, which nowadays operates internationally. Across six continents, we develop innovative concepts and solutions within various industries, thus shaping the future of intralogistics.

With our manufacturer excellence at eight own production sites, our worldwide local presence with over 70 operating companies and more than 10,500 employees around the globe, SSI SCHAEFER is the most powerful solution provider of products and systems for internal material flow – and a reliable partner.

As a family-owned company, SSI SCHAEFER takes the long view. Our focus is on stable, continuous and secure growth. These family values are also reflected by the strong relationships with all of our employees and business partners.





## SSI SCHAEFER: A success story for more than 80 years



In **1937**, Fritz Schäfer founded his family-owned company for “factory manufacturing of sheet metal goods of all types”.



In **1965** the production of static and pallet racking systems started.



At the **turn of the millenium**, the company portfolio was expanded to include automation solutions including IT and robotics expertise.

**Today**, SSI SCHAEFER is a global corporate group and the most effective solution provider of products and systems for in-house material flow worldwide.

**1937**

**1953**

The breakthrough took place in **1953** with the revolutionary Lager-Fix container. This paved the way for expansion which continues today.



**1965**

**1972**

In **1972**, the EUROFIX container was launched to the market.



**2000**

**2005**

Since **2005**, the group has been united under the umbrella brand SSI SCHAEFER.



**2020**



# EVERYTHING FROM A SINGLE SOURCE WITH MANUFACTURER EXCELLENCE



With our products and solutions, SSI SCHAEFER covers the entire intralogistics value-added chain. Therefore we stand for complete solutions from a single source, permanent availability of the systems combined with rapid project implementation and reliable partnerships.

Drawing on a diverse range of expertise and extensive experience we plan, develop and manufacture high-quality products worldwide. As manufacturer, we remain independent of suppliers, can ensure our high quality standards,

and can flexibly develop and implement very individual solutions for our customers. Meeting the customer-specific challenge with greatest efficiency and maximum functionality is particularly important.

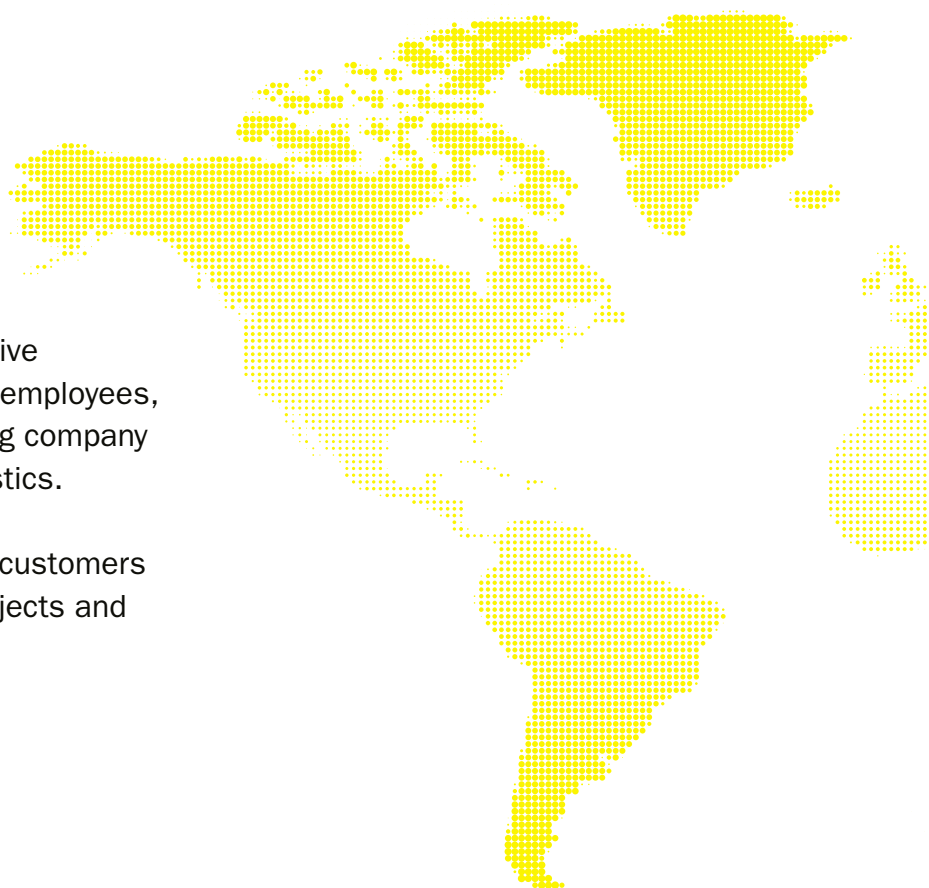




## PRODUCTS AND SOLUTIONS

- Storage, picking and transport containers
- Static racks, platform systems
- Pallet, wide, cantilever and mobile shelving
- Dynamic flow and supply racks
- Storage lifts
- Container and pallet conveying systems
- Semi-automated solutions
- WAMAS® warehouse management software
- Fully-automated racking systems

# WORLDWIDE PRESENCE



Always close by: with over 70 operative subsidiaries and more than 10,500 employees, SSI SCHAEFER is a globally operating company and world market leader in intralogistics.

Around the globe, we guarantee our customers a high degree of locality for their projects and competent local contacts.

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**FORWARD THINKER,  
LONG-TERM PARTNER,  
AND MANUFACTURER. FROM  
STANDARD PRODUCTS TO  
COMPLEX SOLUTIONS:  
WELCOME TO SSI SCHAEFER.**

*Think Tomorrow.*

**SSI SCHAEFER**



	<b>Warehouse / order-picking / transport containers</b>	<b>A</b>	<b>Boxes / containers</b>
	<b>Modular shelving systems</b>	<b>B</b>	<b>Modular shelving</b>
	<b>Longspan racking systems</b>	<b>C</b>	<b>Longspan racking</b>
	<b>Pallet racking systems</b>	<b>D</b>	<b>Pallet racking</b>
	<b>Cantilever racking systems</b>	<b>E</b>	<b>Cantilever racking</b>
	<b>Mezzanines / platforms</b>	<b>F</b>	<b>Mezzanines / platforms</b>
	<b>On-line / live storage shelving systems</b>	<b>G</b>	<b>On-line shelving / KDR shelving</b>
	<b>Semi-automated solutions</b>	<b>H</b>	<b>Semi-automated solutions</b>
	<b>Logistics systems</b>	<b>I</b>	<b>Logistics systems</b>
	<b>Appendix</b>	<b>J</b>	<b>Appendix</b>

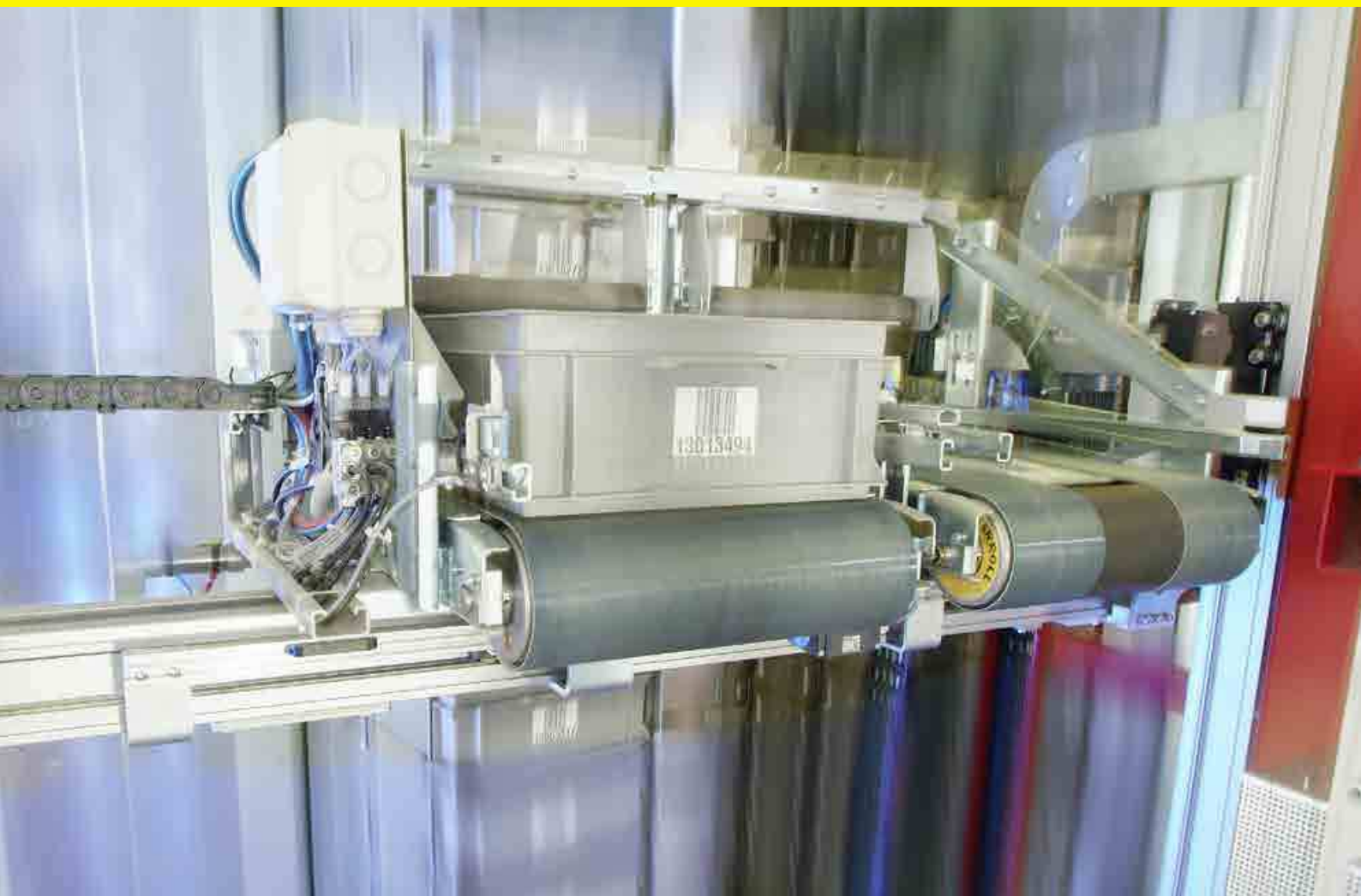
# Containers from SSI SCHAEFER provide endless diversity

SSI SCHAEFER's impressive range of warehouse, order picking and transport containers includes more than 2,000 different types, designs and sizes.

All product developments within our portfolio draws on experience gained from innumerable practical applications. You can rely on these products because development based on real

usage under demanding conditions is better than any simulated tests. You can be sure that the design and material quality of every type lives up to our promises.

Benefit from SSI SCHAEFER's expertise because we understand storage.



**General note regarding dimensions in this catalog chapter:**

all SSI SCHAEFER plastic containers are manufactured to **within the plastic shaped parts tolerance specified by DIN 16 742.**





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Lager-Fix containers  
made of plastic and conductive polypropylene

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# Semi-open front storage containers – the practical solution


















SSI SCHAEFER's containers are designed to integrate perfectly into variety of different rack systems. Thanks to their coordinated dimensions, they can be specifically combined to fit the individual rack fields independently of their purpose.

SSI SCHAEFER's containers create the perfect storage system regardless of whether they are used in high bay racking systems, single or multi-tier platform systems or fully automated small parts storage.



## Plastic semi-open front storage containers – LF range

Item	Internal dimensions (base) L x W x Usable H (mm)	Volume (liters)	PU	Order no.	Order no.
				   	
 <b>LF 110 PP</b>	65 x 91 x 44	0.26	50	<b>1142031</b> <b>1142032</b> <b>1142033</b> <b>1142034</b>	-
<b>LF 110 PPL</b>				-	<b>1142038</b>
 <b>LF 110 M PP</b>	with injection-molded central divider			<b>1142041</b> <b>1142042</b> <b>1142043</b> <b>1142044</b>	-
<b>LF 110 M PPL</b>				-	<b>1142048</b>
 <b>LF 210 ZW PP</b>	136 x 88 x 44	0.5	50	<b>6991</b> <b>6992</b> <b>6993</b> <b>6994</b>	-
<b>LF 210 ZW PPL</b>				-	<b>6998</b>
 <b>LF 211 ZW PP</b>	135 x 88 x 67	0.9	50	<b>92191</b> <b>92192</b> <b>92193</b> <b>92194</b>	-
<b>LF 211 ZW PPL</b>	with grooves for dividers			-	<b>92198</b>
 <b>LF 221 CS PP</b>	191 x 128 x 111	2.7	40	<b>91281</b> <b>91282</b> <b>91283</b> <b>91284</b>	-
<b>LF 221 CS PPL</b>	with grooves for panels CS 221			-	<b>91288</b>
 <b>LF 221 ZW CS PP</b>	with grooves for dividers and panels CS 221			<b>91291</b> <b>91292</b> <b>91293</b> <b>91294</b>	-
<b>LF 221 ZW CS PPL</b>				-	<b>91298</b>
 <b>LF 321 G PP</b>	294 x 182 x 133	7.5	28	<b>91921</b> <b>91922</b> <b>91923</b> <b>91924</b>	-
<b>LF 321 G PPL</b>	with recessed hand grip			-	<b>91928</b>
 <b>LF 321 G ZW PP</b>	with recessed hand grip and grooves for dividers			<b>95521</b> <b>95522</b> <b>95523</b> <b>95524</b>	-
<b>LF 321 G ZW PPL</b>				-	<b>95528</b>
 <b>LF 322 G PP</b>	294 x 183 x 185	10.4	20	<b>92011</b> <b>92012</b> <b>92013</b> <b>92014</b>	-
<b>LF 322 G PPL</b>	with recessed hand grip			-	<b>92018</b>
 <b>LF 322 G ZW PP</b>	with recessed hand grip and grooves for dividers			<b>95511</b> <b>95512</b> <b>95513</b> <b>95514</b>	-
<b>LF 322 G ZW PPL</b>				-	<b>95518</b>

Order no. = on stock










- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C
- **Keeps its shape and robust**
- **Smooth interior walls**  
for easy cleaning
- **Recessed handle on the rear wall**  
for safe manual transport
- **Flexible due to partitioning options**
- **Stacking lug**  
for safe stacking
- **Stackable**  
with 14/7 range made of steel, 14/6 range made of plastic and steel
- **Extensive range of accessories**  
for customized bin designs

## Lager-Fix containers, plastic



## Plastic semi-open front storage containers – LF range

Item	Internal dimensions (base) L x W x Usable H (mm)	Volume (liters)	PU	Order no.				Order no.
								
	268 x 442 x 132	17.0	10					
LF 351 ZW PP	with grooves for dividers ZW 351			1142051	1142052	1142053	1142054	-
LF 351 ZW PPL				-	-	-	-	1142058
	331 x 158 x 142	7.8	1					
LF 421 G PP	with recessed hand grip			79251	79252	79253	79254	-
LF 421 G PPL				-	-	-	-	79258
	448 x 123 x 127	7.6	20					
LF 511 G PP	with recessed hand grip			91831	91832	91833	91834	-
LF 511 G PPL				-	-	-	-	91838
LF 511 G ZW PP	with recessed hand grip and grooves for dividers			92111	92112	92113	92114	-
LF 511 G ZW PPL				-	-	-	-	92118
	445 x 279 x 130	16.5	14					
LF 531 G PP	with recessed hand grip			91991	91992	91993	91994	-
LF 531 G PPL				-	-	-	-	91998
LF 531 G ZW PP	with recessed hand grip and grooves for dividers			92181	92182	92183	92184	-
LF 531 G ZW PPL				-	-	-	-	92188
	445 x 279 x 185	23.5	10					
LF 532 G PP	with recessed hand grip			92001	92002	92003	92004	-
LF 532 G PPL				-	-	-	-	92008
LF 532 G ZW PP	with recessed hand grip and grooves for dividers			95501	95502	95503	95504	-
LF 532 G ZW PPL				-	-	-	-	95508
	444 x 277 x 285	38.0	1					
LF 533 G PP	with recessed hand grip			92081	92082	92083	92084	-
LF 533 G PPL				-	-	-	-	92088
LF 533 G ZW PP	with recessed hand grip and grooves for dividers			92091	92092	92093	92094	-
LF 533 G ZW PPL				-	-	-	-	92098
	445 x 425 x 277	57.0	1					
LF 543 G PP	with recessed hand grip			1142174	1142173	1142172	1142171	-
LF 543 G PPL				-	-	-	-	92108
LF 543 G ZW PP	with recessed hand grip and grooves for dividers			1142164	1142163	1142162	1142161	-
LF 543 G ZW PPL				-	-	-	-	95568
LF 743 PP	615 x 425 x 278	74.0	1	1142061	1142062	1142063	1142064	-
LF 743 PPL				-	-	-	-	1142068

Order no. = not on stock

## LF range accessories



### Dust lids

Made of transparent plastic, angled at the front, closed.

Item	for containers	PU	Order no.
DC 211	LF 211 ZW	10	93240
DC 221	LF 221 CS / ZW CS	10	93230
DC 321	LF 321 G / G ZW	10	93140
DC 322	LF 322 G / G ZW	10	93130
DC 511	LF 511 G / G ZW	10	93290
DC 531	LF 531 G / G ZW	10	93220
DC 532	LF 532 G / G ZW	10	93120

### Dust lids

Only for LF 322 and LF 532.

Made of gray or transparent plastic. Open order picking side.

Item	for containers	Type	PU	Order no.
DL 322	LF 322 G / G ZW	Transparent	10	93200
LF 32-DL	LF 321 / LF 322 G / G ZW	Gray	10	55385
DL 532	LF 532 G / G ZW	Transparent	10	93190
LF 53-DL	LF 531 / LF 532 / LF 533 G / GZW	Gray	10	55395



### Dividers

Polystyrene, white. For dividing containers with moulded grooves. Stackability remains ensured. PU: 10 items.

Item	for containers	PU	Order no.
ZW-K 210	LF 210 ZW, four-way partitioning (1x length-, 1x crosswise)	10	91900
ZW 211	LF 211 ZW	10	92990
ZW 221	LF 221 ZW CS	10	91910
ZW 321 G	LF 321 G ZW	10	95550
ZW 322 G	LF 322 G ZW	10	95540
ZW 351	LF 351 ZW	10	1142030
LF-T 511	LF 511 G ZW, lengthwise divider	10	92120
RKT 300	LF 511 G ZW, crosswise divider	10	14720
ZW 531 G	LF 531 G ZW	10	93280
ZW 532 G	LF 532 G ZW	10	95530
ZW 533 G/543 G	LF 533 G ZW / LF 543 G ZW	10	93080



### Slide-in panels

For LF containers, made of transparent high quality plastic to protect against dust. With retaining mechanism to prevent anything from falling out of full containers. Can be opened when stacked. Additional, large label holder. Can also be used in stacks, with carry rods and dividers.

Item	for containers	PU	Order no.
CS 321-L	LF 321 G / G ZW	10	93110
CS 322-L	LF 322 G / G ZW	10	93030
CS 531-L	LF 531 G / G ZW	10	91520
CS 532-L	LF 532 G / G ZW	10	93020
CS 533-L	LF 533 G / G ZW	10	93090

### Sliding flap panels

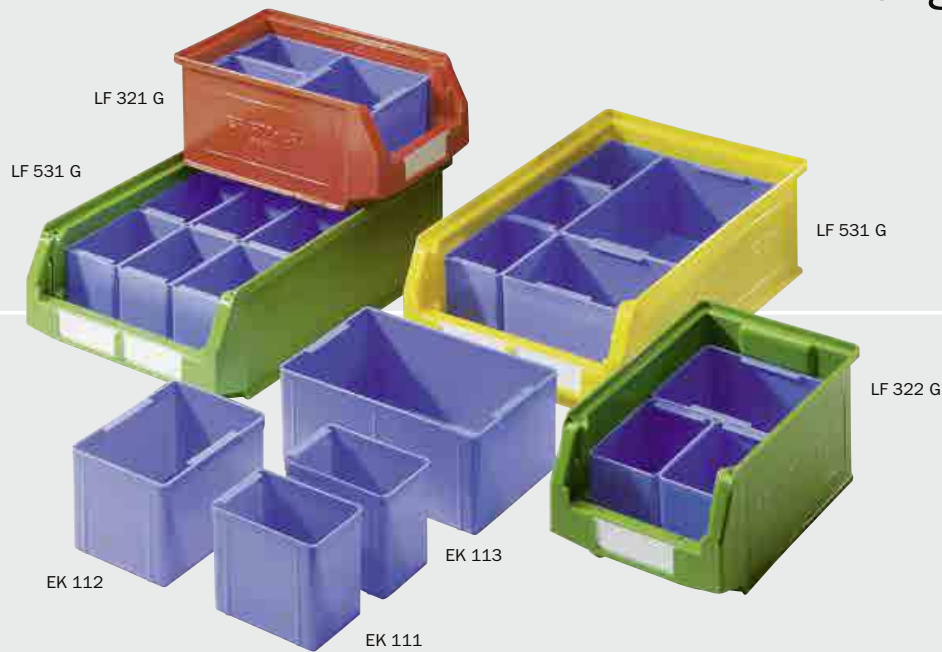
Made of transparent high quality plastic to protect against dust. The flaps are locked onto the container using two fixing clips, included in the scope of delivery, preventing them from being lost.

Item	for containers	PU	Order no.
CS 221-K	LF 221 CS / ZW CS	10	91220
CS 321-K	LF 321 G / G ZW	10	91480
CS 322-K	LF 322 G / G ZW	10	91490
CS 531-K	LF 531 G / G ZW	10	91530
CS 532-K	LF 532 G / G ZW	10	91500
CS 533-K	LF 533 G / G ZW	10	91510

Order no. = on stock



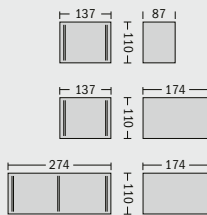
## LF range accessories



## Insert boxes

Made of blue polystyrene or black conductive PPL (for LF 321 G, LF 322 G, LF 531 G, LF 532 G and LF 533 G).

Item	PU	Order no.	
EK 111	48	22644	—
EK 111 PPL	48	—	22648
EK 112	40	22634	—
EK 112 PPL	40	—	22638
EK 113	36	22624	—
EK 113 PPL	36	—	22628



Suggested partitioning with insert boxes for LF 531 G, LF 532 G and LF 533 G



Suggested partitioning with insert boxes for LF 321 G and LF 322 G



## Bars for lifting

Made of high-strength black plastic. Designed for containers with heavy contents. Easy to retrofit. PU: 10 items

Item	for containers	PU	Order no.
TS 322	LF 321 / LF 322 G / G ZW	10	93010
TS 531	LF 531 / LF 532 / LF 533 G / G ZW	10	93250
TS 543	LF 543 G / G ZW / LF 743	10	95590

Order no. = not on stock



# Stackable transport containers for specific warehousing applications



The 14/6 range stackable transport containers are made of plastic and are ideal for both intra-company transport and shipping. They also perfectly fit all SSI SCHAEFER rack systems.

The diverse range of different sizes makes this range of containers highly adaptable to the customer's specific warehousing applications.

The plastic 14/6 range is both compatible and stackable with the 14/6 steel containers along with the 14/7 range made of steel and the plastic LF series.

The fully closed walls allow the boxes to be completely filled. In addition, the sturdy stacking rim and the flat base ensure the safest possible stacking for both intra-company and external transport.



The stacking ratio





**Polypropylene**

resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C

**Keeps its shape and robust****Smooth interior walls**

for easy cleaning

**Recessed handle on the short sides**

for safe manual transport

**Stackable**

with LF range made of plastic, 14/7 series made of steel, 14/6 range made of steel

**Conductive polypropylene (PPL)**

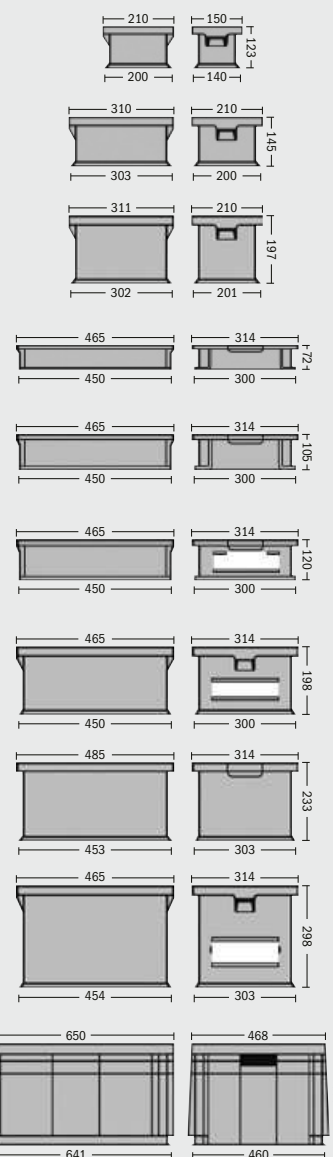
	normal PE/PP	PPL
Specific contact resistance	$10^{18}$ Ohm x cm <	$10^3$ Ohm x cm
Specific surface resistance	$10^{14}$ Ohm	$10^4$ Ohm

**PPL BLACK****Stackable transport containers****14/6 range, plastic****Stackable transport containers made of plastic/conductive PPL – 14/6 range**

Item	Internal dimensions (base) L x W x Usable H (mm)	Volume (liters)	PU	Order no.	Order no.
14/6-4 PP	190 x 123 x 110	2.5	40	8151 8152 8153 8154	—
14/6-4 PPL				— — — —	8158
14/6-3 PP	285 x 183 x 133	7.0	20	8121 8122 8123 8124	—
14/6-3 PPL				— — — —	8128
14/6-3 S PP	286 x 182 x 182	9.3	1	14131 14132 14133 14134	—
14/6-3 S PPL	with document holder on the short side			— — — —	14138
14/6-2 F PP	430 x 279 x 59	8.0	30	15491 15492 15493 15494	—
14/6-2 F PPL				— — — —	15498
14/6-2 G PP	429 x 279 x 89	10.3	20	14121 14122 14123 14124	—
14/6-2 G PPL				— — — —	14128
14/6-2 H PP	428 x 278 x 104	12.0	16	14361 14362 14363 14364	—
14/6-2 H PPL	with label holders			— — — —	14368
14/6-2 PP	426 x 278 x 182	21.0	10	8091 8092 8093 8094	—
14/6-2 PPL	with label holders			— — — —	8098
14/6-230 PP	425 x 275 x 218	26.0	10	15751 15752 15753 15754	—
14/6-230 PPL	with overhang hand grip on request			— — — —	15758
14/6-2 Z PP	423 x 272 x 282	33.0	1	14371 14372 14373 14374	—
14/6-2 Z PPL	with label holders			— — — —	14378
14/6-1 PP	608 x 426 x 278	71.0	4	95301 95302 95303 95304	—
14/6-1 PPL	with label holders			— — — —	95308

Order no. = on stock

Order no. = not on stock

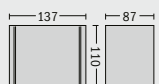
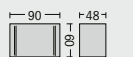





## Accessories for 14/6 range, plastic



### Insert boxes

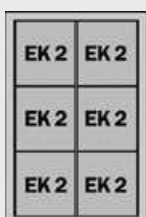
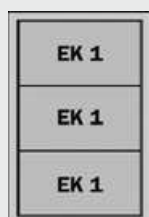
Made of blue polystyrene or black, conductive PPL.



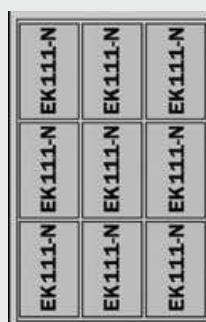
Item	for container	L x W x H (mm)	required containers	VE	Order no.		
<b>EK 1</b>	14/6-3	180 x 96 x 60	3	58			
<b>EK 1 PPL</b>					1131	1134	—
					—	—	1138
<b>EK 2</b>	14/6-3	90 x 96 x 60	6	80	1141	1144	—
<b>EK 2 PPL</b>					—	—	1148
<b>EK 3</b>	14/6-3	90 x 48 x 60	12	120	1151	1154	—
<b>EK 3 PPL</b>					—	—	1158
<b>EK 111-N</b>	14/6-2 H	137 x 87 x 96	9	48	—	4364	—
<b>EK 111-N PPL</b>					—	—	4368
<b>EK 111</b>	14/6-2	137 x 87 x 110	9	48	—	22644	—
<b>EK 111 PPL</b>					—	—	22648

Suggested partitioning with insert boxes

For 14/6-3



For 14/6-2 H



For 14/6-2



Order no. = on stock



Accessories for 14/6 range, plastic

Dust lids with finger hole

Recommended for intra-company transport of dust-sensitive articles.

Item	for containers	PU	Order no.
SD-14/6-1 PS	14/6-1	10	16006
SD-14/6-2 PS	14/6-2	10	15946
SD-14/6-3 PS	14/6-3	10	13656
SD-14/6-4 PS	14/6-4	10	13666



Clip

For accompanying documents. Keeps the accompanying documents with the goods from the order picking to the final check.

Item	Order no.
KM 14/6	15950



Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

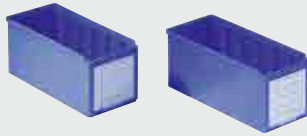
Semi-automated  
solutions

Logistics  
systems

Appendix

# Plastic shelf containers for 300 mm depth

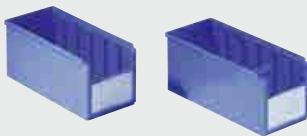
Divider \_\_\_\_\_  
 Label holder for divider \_\_\_\_\_  
 Label holder on shelf container \_\_\_\_\_



## RK 300 Polypropylene, blue

can be divided into max. 6 compartments, 7 containers per shelf.

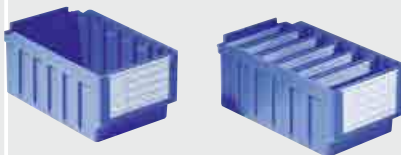
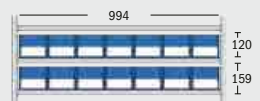
Item	Description (W x D x H mm)	PU	Order no.
<b>RK 300</b>	Shelf container (135 x 300 x 120)	25 pcs.	<b>14714</b>
<b>RKE 300</b>	Labels	100 pcs.	<b>21700</b>
<b>RKF 300</b>	Protective film	100 pcs.	<b>21710</b>
<b>RKT 300</b>	Divider	25 pcs.	<b>14720</b>



## RK 300 HO Polypropylene, blue, with semi-open front side

can be divided into max. 6 compartments, 7 containers per shelf.

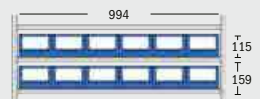
<b>RK 300 HO</b>	Shelf container (135 x 300 x 120)	25 pcs.	<b>14874</b>
<b>RKE 300 HO</b>	Labels	100 pcs.	<b>21720</b>
<b>RKF 300 HO</b>	Protective film	100 pcs.	<b>21730</b>
<b>RKT 300</b>	Divider	25 pcs.	<b>14720</b>



## RK 321 Polystyrene, blue

can be divided into max. 6 compartments, 6 containers per shelf.

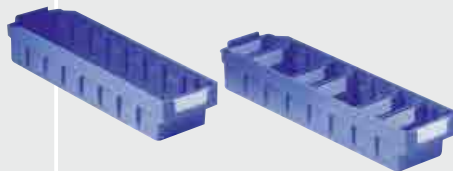
<b>RK 321</b>	Shelf container (162 x 290 x 115)	22 pcs.	<b>1674</b>
<b>RKE 321</b>	Labels for short side	100 pcs.	<b>1720</b>
<b>RKF 321</b>	Protective film	100 pcs.	<b>1790</b>
<b>RKT 321</b>	Divider	25 pcs.	<b>1684</b>
<b>RKE 500 N</b>	Labels for divider	100 pcs.	<b>1740</b>
<b>RKF 500 N</b>	Protective film	100 pcs.	<b>1800</b>



Sheet steel shelf containers

page A60

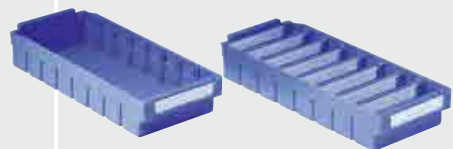
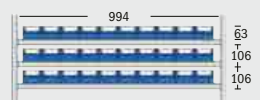
# Shelf containers made of plastic for 400 mm depth



## RK 400 S Polystyrene, blue

can be divided into max. 8 compartments, 10 containers per shelf.

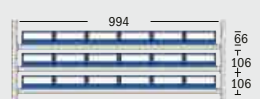
<b>RK 400 S</b>	Shelf container (97 x 390 x 63)	22 pcs.	<b>17984</b>
<b>RKE 400 S</b>	Labels for short side	100 pcs.	<b>1730</b>
<b>RKF 400 S</b>	Protective film	100 pcs.	<b>1810</b>
<b>RKT 400 S</b>	Divider	25 pcs.	<b>17994</b>
<b>RKE 400 S</b>	Labels for divider	100 pcs.	<b>1730</b>
<b>RKF 400 S</b>	Protective film	100 pcs.	<b>1810</b>



## RK 400 Polystyrene, blue

can be divided into max. 8 compartments, 6 containers per shelf.

<b>RK 400</b>	Shelf container (162 x 408 x 66)	20 pcs.	<b>17904</b>
<b>RKE 500 N</b>	Labels for short side	100 pcs.	<b>1740</b>
<b>RKF 500 N</b>	Protective film	100 pcs.	<b>1800</b>
<b>RKT 400</b>	Divider	25 pcs.	<b>17914</b>
<b>RKE 400</b>	Labels for divider	100 pcs.	<b>17920</b>
<b>RKF 400</b>	Protective film	100 pcs.	<b>17930</b>



Order no. = on stock





- **Made of polypropylene or polystyrene**
- **Designed for SSI SCHAEFER modular shelvings**
- **Extensive range of order accessories**  
labeling and partition options (advantageous for both large and small warehouses)
- **Conductive versions available on request**

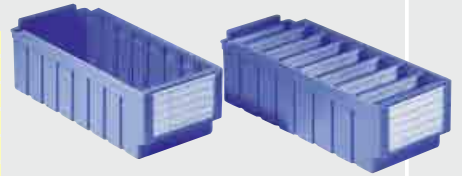
## Plastic shelf containers for 400/500 mm depth

### RK 421 Polystyrene, blue

can be divided into max. 8 compartments, 6 containers per shelf.



Item	Description (W x D x H mm)	PU	Order no.
<b>RK 421</b>	Shelf container (162 x 408 x 115)	16 pcs.	<b>16904</b>
<b>RKE 321</b>	Labels for short side	100 pcs.	<b>1720</b>
<b>RKF 321</b>	Protective film	100 pcs.	<b>1790</b>
<b>RKT 5/421</b>	Divider	25 pcs.	<b>16924</b>
<b>RKE 400</b>	Labels for divider	100 pcs.	<b>17920</b>
<b>RKF 400</b>	Protective film	100 pcs.	<b>17930</b>

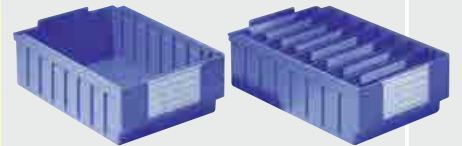


### RK 421 B Polystyrene, blue

can be divided into max. 8 compartments, 4 containers per shelf.

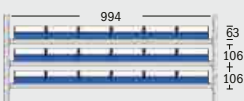


Item	Description (W x D x H mm)	PU	Order no.
<b>RK 421 B</b>	Shelf container (243 x 390 x 115)	13 pcs.	<b>1564</b>
<b>RKE 321</b>	Labels for short side	100 pcs.	<b>1720</b>
<b>RKF 321</b>	Protective film	100 pcs.	<b>1790</b>
<b>RKT 5/421 B</b>	Divider	25 pcs.	<b>1574</b>
<b>RKE 500 N</b>	Labels for divider	100 pcs.	<b>1740</b>
<b>RKF 500 N</b>	Protective film	100 pcs.	<b>1800</b>

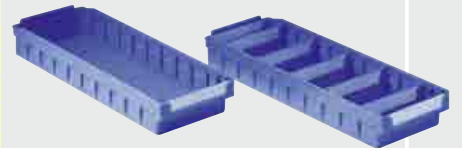


### RK 500 N Polystyrene, blue

can be divided into max. 10 compartments, 6 containers per shelf.

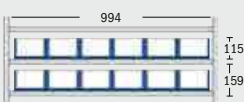


Item	Description (W x D x H mm)	PU	Order no.
<b>RK 500 N</b>	Shelf container (162 x 490 x 63)	40 pcs.	<b>1584</b>
<b>RKE 500 N</b>	Labels for short side	100 pcs.	<b>1740</b>
<b>RKF 500 N</b>	Protective film	100 pcs.	<b>1800</b>
<b>RKT 500 N</b>	Divider	25 pcs.	<b>1594</b>
<b>RKE 500 N</b>	Labels for divider	100 pcs.	<b>1740</b>
<b>RKF 500 N</b>	Protective film	100 pcs.	<b>1800</b>



### RK 521 Polystyrene, blue

can be divided into max. 10 compartments, 6 containers per shelf.



Item	Description (W x D x H mm)	PU	Order no.
<b>RK 521</b>	Shelf container (162 x 508 x 115)	20 pcs.	<b>16914</b>
<b>RKE 321</b>	Labels for short side	100 pcs.	<b>1720</b>
<b>RKF 321</b>	Protective film	100 pcs.	<b>1790</b>
<b>RKT 5/421</b>	Divider	25 pcs.	<b>16924</b>
<b>RKE 400</b>	Labels for divider	100 pcs.	<b>17920</b>
<b>RKF 400</b>	Protective film	100 pcs.	<b>17930</b>

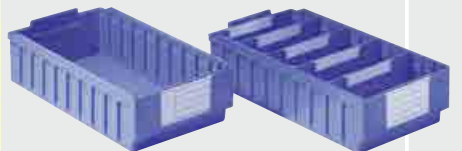


### RK 521 B Polystyrene, blue

can be divided into max. 10 compartments, 4 containers per shelf.



Item	Description (W x D x H mm)	PU	Order no.
<b>RK 521 B</b>	Shelf container (243 x 490 x 115)	10 pcs.	<b>1554</b>
<b>RKE 321</b>	Labels for short side	100 pcs.	<b>1720</b>
<b>RKF 321</b>	Protective film	100 pcs.	<b>1790</b>
<b>RKT 5/421 B</b>	Divider	25 pcs.	<b>1574</b>
<b>RKE 500 N</b>	Labels for divider	100 pcs.	<b>1740</b>
<b>RKF 500 N</b>	Protective film	100 pcs.	<b>1800</b>

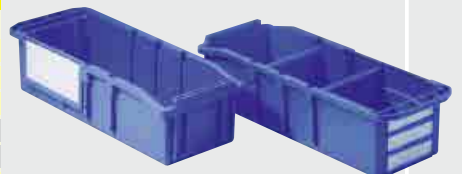


### RK 522 Polypropylene, blue

can be divided into max. 4 compartments, 5 containers per shelf.



Item	Description (W x D x H mm)	PU	Order no.
<b>RK 522 PP</b>	Shelf container (190 x 520 x 121)	15 pcs.	<b>1874</b>
<b>RKE 522 S</b>	Labels for short side	100 pcs.	<b>4520</b>
<b>RKF 522 S</b>	Protective film	100 pcs.	<b>4530</b>
<b>RKE 522 L</b>	Labels for long side	100 pcs.	<b>4500</b>
<b>RKF 522 L</b>	Protective film	100 pcs.	<b>4510</b>
<b>RKT 522 PP</b>	Divider	25 pcs.	<b>1880</b>



Order no. = not on stock



## Plastic shelf containers for 600 mm depth

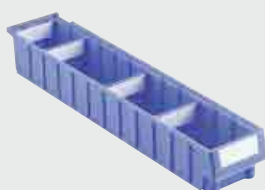
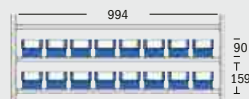
- **Made of polypropylene or polystyrene**
- **Designed for SSI SCHAEFER modular shelving**
- **Extensive range of order accessories**  
labeling and partition options (advantageous for both large and small warehouses)
- **Conductive versions available on request**



### **RK 619-02** Polypropylene, blue

can be divided into max. 11 compartments, 8 containers per shelf.

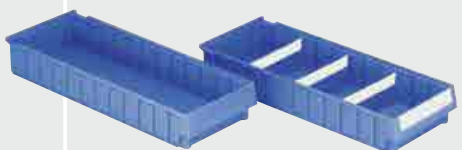
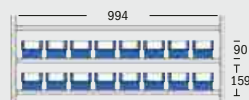
Item	Description (W x D x H mm)	PU	Order no.
<b>RK 619-02</b>	Shelf container (116 x 599 x 90)	20 pcs.	<b>20954</b>
<b>RKE 619</b>	Labels for short side	100 pcs.	<b>20910</b>
<b>RKF 619</b>	Protective film	100 pcs.	<b>20920</b>
<b>RKT 61</b>	Divider	25 pcs.	<b>21154</b>
<b>RKE 619</b>	Labels for divider	100 pcs.	<b>20910</b>
<b>RKF 619</b>	Protective film	100 pcs.	<b>20920</b>



### **RK 619-01** Polypropylene, blue

can be divided into max. 12 compartments, 8 containers per shelf.

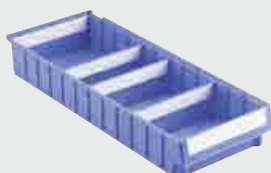
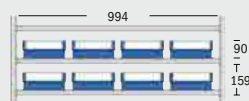
<b>RK 619-01</b>	Shelf container (116 x 620 x 90)	20 pcs.	<b>21144</b>
<b>RKE 619</b>	Labels for short side	100 pcs.	<b>20910</b>
<b>RKF 619</b>	Protective film	100 pcs.	<b>20920</b>
<b>RKT 61</b>	Divider	25 pcs.	<b>21154</b>
<b>RKE 619</b>	Labels for divider	100 pcs.	<b>20910</b>
<b>RKF 619</b>	Protective film	100 pcs.	<b>20920</b>



### **RK 629-02** Polypropylene, blue

can be divided into max. 11 compartments, 4 containers per shelf.

<b>RK 629-02</b>	Shelf container (232 x 599 x 90)	10 pcs.	<b>20964</b>
<b>RKE 629</b>	Labels for short side	100 pcs.	<b>20930</b>
<b>RKF 629</b>	Protective film	100 pcs.	<b>20940</b>
<b>RKT 62</b>	Divider	25 pcs.	<b>21174</b>
<b>RKE 629</b>	Labels for divider	100 pcs.	<b>20930</b>
<b>RKF 629</b>	Protective film	100 pcs.	<b>20940</b>



### **RK 629-01** Polypropylene, blue

can be divided into max. 12 compartments, 4 containers per shelf.

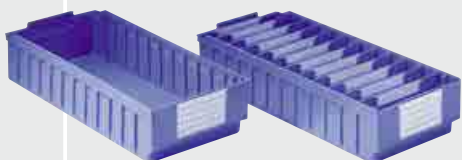
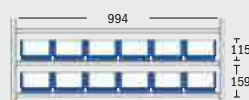
<b>RK 629-01</b>	Shelf container (232 x 620 x 90)	10 pcs.	<b>21164</b>
<b>RKE 629</b>	Labels for short side	100 pcs.	<b>20930</b>
<b>RKF 629</b>	Protective film	100 pcs.	<b>20940</b>
<b>RKT 62</b>	Divider	25 pcs.	<b>21174</b>
<b>RKE 629</b>	Labels for divider	100 pcs.	<b>20930</b>
<b>RKF 629</b>	Protective film	100 pcs.	<b>20940</b>



### **RK 621** Polystyrene, blue

can be divided into max. 12 compartments, 6 containers per shelf.

<b>RK 621</b>	Shelf container (162 x 590 x 115)	12 pcs.	<b>1894</b>
<b>RKE 321</b>	Labels for short side	100 pcs.	<b>1720</b>
<b>RKF 321</b>	Protective film	100 pcs.	<b>1790</b>
<b>RKT 5/421</b>	Divider	25 pcs.	<b>16924</b>
<b>RKE 400</b>	Labels for divider	100 pcs.	<b>17920</b>
<b>RKF 400</b>	Protective film	100 pcs.	<b>17930</b>



### **RK 621 B** Polystyrene, blue

can be divided into max. 12 compartments, 4 containers per shelf.

<b>RK 621 B</b>	Shelf container (243 x 590 x 115)	8 pcs.	<b>1904</b>
<b>RKE 321</b>	Labels for short side	100 pcs.	<b>1720</b>
<b>RKF 321</b>	Protective film	100 pcs.	<b>1790</b>
<b>RKT 5/421 B</b>	Divider	25 pcs.	<b>1574</b>
<b>RKE 500 N</b>	Labels for divider	100 pcs.	<b>1740</b>
<b>RKF 500 N</b>	Protective film	100 pcs.	<b>1800</b>



**Order no.** = on stock





# ELB range – the all-round container for every application



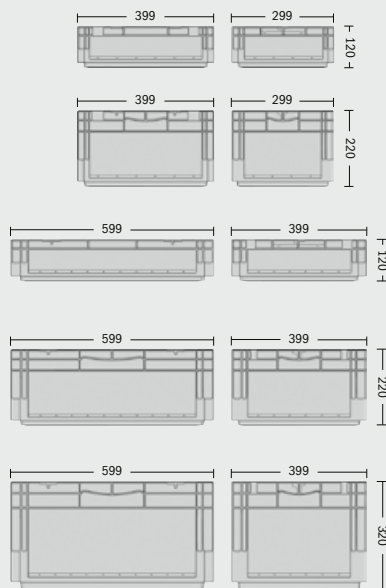
## ELB Euro light container

SSI SCHAEFER has created an innovative high-tech product, drawing on expertise gained from unique, special applications. The result is an incredibly light, robust and, above all, low-cost general purpose container, which is differentiated by its versatility.

Developed using a new material in a new machine, the Euro light container is a high quality product suitable for a vast range of applications.



Smooth standard base for manual handling or modular shelving systems (max. content weight 20 kg)

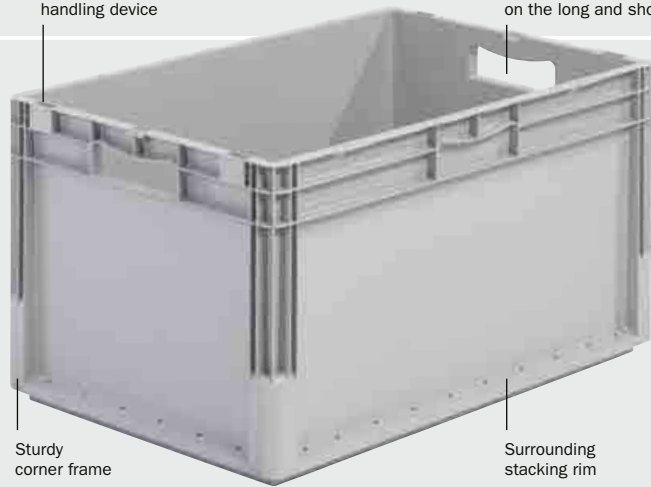


Lifting slots for materials handling device

Handles for manual handling on the long and short sides

Sturdy corner frame

Surrounding stacking rim



## ELB Euro light container – standard design

Item	Internal dimensions (base) L x W x H (mm)	Usable internal height when stacked (mm)	Volume (liters)	Order no.
<b>ELB 4120</b>	356 x 256 x 115	100	10.9	<b>56504</b> <b>56505</b>
<b>ELB 4220</b>	356 x 256 x 215	200	20.4	<b>56534</b> <b>56535</b>
<b>ELB 6120</b>	555 x 355 x 115	100	23.3	<b>56564</b> <b>56565</b>
<b>ELB 6220</b>	555 x 355 x 215	200	43.7	<b>56594</b> <b>56595</b>
<b>ELB 6320</b>	555 x 355 x 314	300	64.0	<b>56624</b> <b>56625</b>



## Other container designs

on request

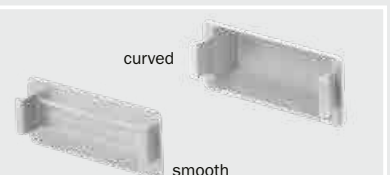


## Label holder

Fits onto the ribs of all Euro light container.

PU: 50 items

Item	Order no.
<b>ELB-E</b>	<b>16020</b>



## Insertable hand grips

Made of polypropylene for subsequently closing the finger holes.

PU: 50 items

Item	Type	Order no.
<b>GV-MF</b>	curved	<b>39795</b>
<b>GV-MF 3</b>	smooth	<b>22385</b>

Order no. = on stock

GRAY



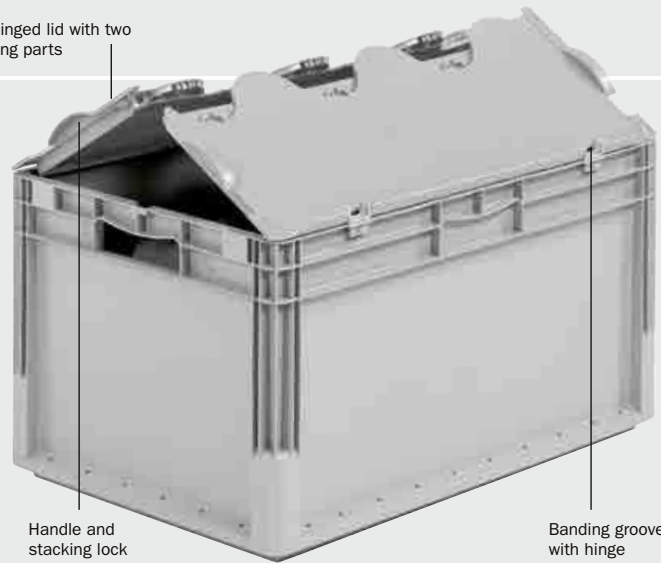
Additional colors  
available on request



- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions,  
sound insulation effect when used on conveying  
sections, when used properly dimensionally stable  
from -20° to +100°C
- **Keeps its shape and robust**
- **Stacking**  
rim with profile design
- **Ergonomic open hand grips**  
on both short sides
- **Lifting slots**  
for materials handling device
- **Optional reinforced base**  
for reliable and safe storage using automated  
systems
- **Corner frame design**  
for torsion-resistant construction
- **Smooth interior walls**  
for easy cleaning
- **Compatible**  
with all Euro dimension containers

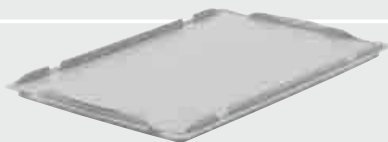
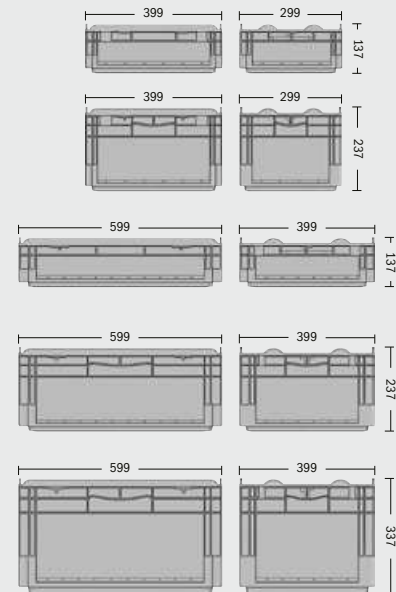
## ELB range with two-piece hinged lid and accessories

2-piece hinged lid with two  
interlocking parts



### ELB Euro light container with two-part hinged lid

Item	Internal dimensions (base) L x W x H (mm)	Usable internal height when stacked (mm)	Volume (liters)	Order no.	
ELB-DH 4120	356 x 256 x 115	100	10.9	56955	56005
ELB-DH 4220	356 x 256 x 215	200	20.4	56014	56015
ELB-DH 6120	555 x 355 x 115	100	23.3	56024	56025
ELB-DH 6220	555 x 355 x 215	200	43.7	56034	56035
ELB-DH 6320	555 x 355 x 314	300	64.0	56044	56045



### Drop-on lids

Lid clips and additional colors available on request.

Item	for basic dimensions L x W (mm)	Order no.
<b>Lid</b>		
LTB-D 43	400 x 300	75905
LTB-D 64	600 x 400	75915
<b>With hinges</b> (incl. 2 lid hinges)		
LTB-D 43 S	400 x 300	76205
LTB-D 64 S	600 x 400	76215

Order no. = not on stock



### Pallet covers

For covering entire stacks of containers on a euro pallet. Designed for banding with guiding grooves on the short sides of the pallet cover.

Item	for basic dimensions L x W (mm)	Order no.
ADH 86	800 x 600	— 93628
A 1208	1,200 x 800	39704 —
A 1208-1	1,200 x 800	35614 —

Illustrations of the  
pallet covers A 1208-1  
and ADH 86 are shown  
on page A20.



# EF range – containers for manual and automated handling

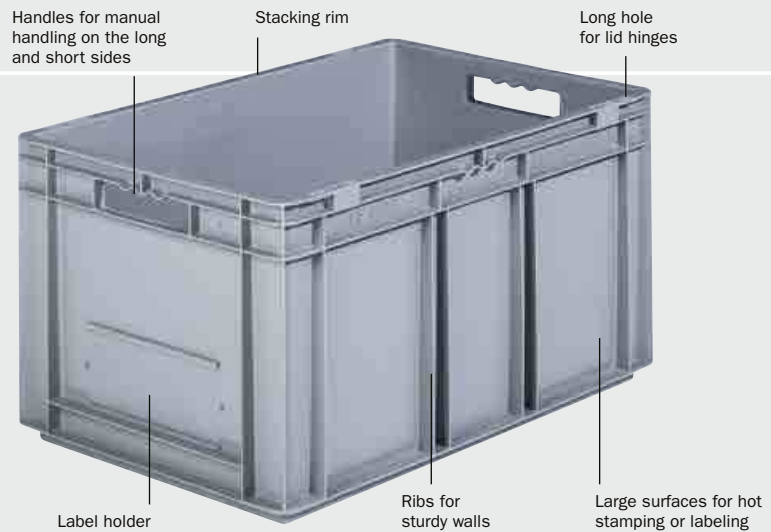
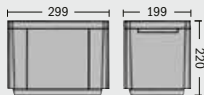
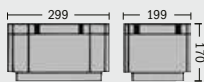
## EUROFIX containers – EF range

The EF range from SSI SCHAEFER provides cost-effective staging, transporting and storage with 25 different sizes and 150 varieties. Regardless of the application, the sturdy stacking lids guarantee safe stacking up to 600 kg.



































The EF box range is also available in conductive versions and with special designs.



Smooth standard base  
(max. content load 20 kg)



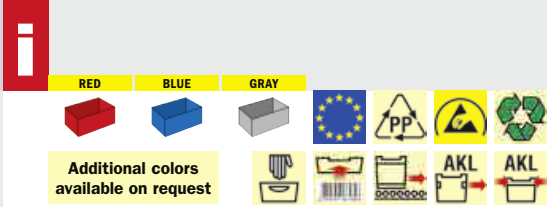
## Standard EF containers

Item	Internal dimensions of the base L x W x H (mm) when stacked	Volume (liters)	Base	Walls	Order no.	Order no.
						
EF 2120 PP	153 x 106 x 102	2.0			22031	22034
EF 2120 PPL					—	22035
						22038
EF 3120 PP	254 x 154 x 102	4.7			22021	22024
EF 3120 PPL					—	22025
						22028
EF 3170 PP	253 x 153 x 148	7.0			22261	22264
EF 3170 PPL					—	22265
						22268
EF 3220 PP	253 x 153 x 197	9.0			22931	22934
EF 3220 PPL					—	22935
						22938
EF 4040 PP	358 x 258 x 28	3.6			15501	15504
EF 4040 PPL					—	15505
						15508
EF 4070 PP	359 x 259 x 61	6.9			21741	21744
EF 4070 PPL					—	21745
						21748
EF 4080 PP	358 x 258 x 68	7.4			15511	15514
EF 4080 PPL					—	15515
						15518
EF 4120 PP	356 x 256 x 105	11.1			14891	14894
EF 4120 PPL					—	14895
						14898

 Closed

 Perforated

Order no. = on stock



- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions,  
sound insulation effect when used on conveying  
sections, when used properly dimensionally stable  
from -20° to +100°C
- **Keeps its shape and robust**
- **Smooth interior walls**  
for easy cleaning
- **Strong stacking rims**  
for safe stacking up to 600 kg
- **Optimum rib structure**  
for safe storage and transport
- **Compatible**  
with all Euro containers
- **Flexibility**  
thanks to 25 sizes and more than 150 variants

#### ► Conductive polypropylene (PPL)

Specific contact resistance	normal PE/PP 10 <sup>18</sup> Ohm x cm <	PPL 10 <sup>3</sup> Ohm x cm
Specific surface resistance	10 <sup>-14</sup> Ohm	10 <sup>4</sup> Ohm



## EF range – standard



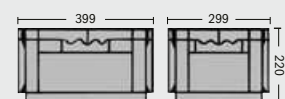
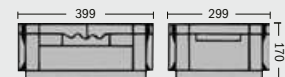
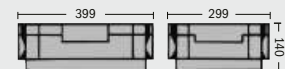
### Other container designs

on request



### Standard EF containers

Item	Internal dimensions of the base L x W x H (mm) when stacked	Volume (liters)	Base	Walls	Order no.	Order no.
EF 4140 PP	354 x 254 x 117	12.8			22271 22274 22275	—
EF 4140 PPL					— — —	22278
EF 4170 PP	354 x 254 x 147	15.7			22161 22164 22165	—
EF 4170 PPL					— — —	22168
EF 4220 PP	355 x 255 x 197	20.4			14951 14954 14955	—
EF 4220 PPL					— — —	14958
EF 4221 PP					14961 — 14965	
EF 4223 PP	355 x 255 x 194	19.9			14971 — 14975	
EF 4320 PP	354 x 253 x 306	29.7			14741 14744 14745	—
EF 4320 PPL					— — —	14748



/ Closed Perforated



Hand grip\*\*



Open hand grip\*\*

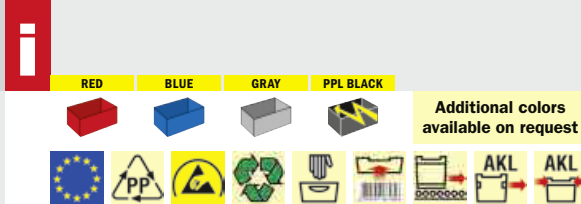


Overhang hand grip\*\*



Hand grip with overhang hand grip\*\*

\*\* Not always in stock. Please inquire.



## EF series – standard (continued) and EF series – special

### Standard EF containers

Item	Internal dimensions of the base L x W x H (mm) when stacked	Volume (liters)	Base	Walls	Order no.	Order no.
EF 6070 PP	553 x 353 x 60	14.3			22041	22044
EF 6070 PPL					22045	22048
EF 6120 PP	553 x 353 x 97	23.3			92281	970309
EF 6120 PPL					92285	92288
EF 6140 PP	553 x 353 x 117	27.4			22231	22234
EF 6140 PPL					22235	22238
EF 6150 PP	553 x 353 x 127	29.4			21951	21954
EF 6150 PPL					21955	21958
EF 6170 PP	559 x 359 x 151	34.2			15371	15374
EF 6170 PPL					15375	15378
EF 6180 PP	553 x 353 x 156	35.4			15661	15664
EF 6180 PPL					15665	15668
EF 6181 PP					22055	
EF 6220 PP	553 x 353 x 196	43.5			14851	14854
EF 6220 PPL					14855	14858
EF 6221 PP					16091	16095
EF 6240 PP	553 x 353 x 216	47.5			22091	22094
EF 6240 PPL					22095	22098
EF 6280 PP	553 x 353 x 261	56.6			21921	21924
EF 6280 PPL					21925	21928
EF 6320 PP	553 x 353 x 296	63.7			14831	14834
EF 6320 PPL					14835	14838
EF 6321 PP					16071	16075
EF 6420 PP	553 x 353 x 396	83.8			14921	14924
EF 6420 PPL					14925	14928
EF 6421 PP					14935	

### Special EF containers – Base dimensions of 400 x 300 mm

Item	Finish	Interior dim. when stacked L x W x H (mm)	Volume (liters)	Base	Walls	Order no.
EF 4220 F1	One front side open at the top semi-open, with bevelled hand grip	355 x 255 x 197	20.4			92251
						92255

Closed

Perforated

Order no. = on stock



# Special EF containers with order picking opening and accessories

## EUROFIX container EF 6220 D11

With semi-open front side.  
Material: Polypropylene. Color: blue.  
External dimensions: L 599 x W 399 x H 220 mm.  
With front side opening: W 278 x H 110 mm.

## Dust cover EF-SK 64102

Made of transparent plastic.

Item	Order no.
EF 6220 D11	93904
EF-SK 64102	93930

Minimum order quantity for special EF boxes with dust flap

## EUROFIX container EF 6320 B11

With semi-open front side.  
Material: Polypropylene. Color: blue.  
External dimensions: L 599 x W 399 x H 320 mm.  
With front side opening: W 278 x H 160 mm.

## Dust cover EF-SK 64152

Made of transparent plastic.

Item	Order no.
EF 6320 B11	93894
EF-SK 64152	93920

Minimum order quantity for special EF boxes with dust flap

## EUROFIX container EF 6420 A14

With semi-open front side.  
Material: polypropylene. Color: blue.  
External dimensions: L 599 x W 399 x H 420 mm.  
With front side opening: W 278 x H 210 mm.

## Dust cover EF-SK 64202

Made of transparent plastic.

Item	Order no.
EF 6420 A14	93884
EF-SK 64202	93910

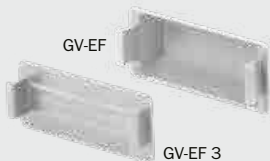
Minimum order quantity for special EF boxes with dust flap



## Insertable hand grips

Made of polypropylene for subsequently closing the finger holes.

PU: 50 items



Item	Order no.
GV-EF	22081 22085
GV-EF 3	22301 22325

Order no. = not on stock

## Label holder

Fits onto the ribs of all EUROFIX containers.

PU: 50 items



Item	Order no.
EF-E	16010

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

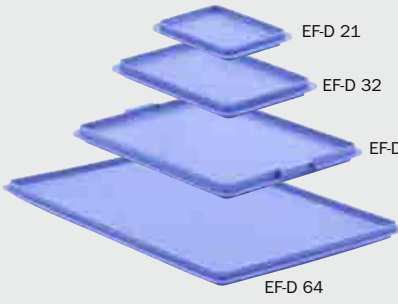
On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems





Appendix


# Accessories for standard EF containers



### Lids





Available in red, blue or gray for all EUROFIX containers. Slits in the long sides of the lid make all boxes crimp-sealable and lockable. Material: Polypropylene.

Item	for basic dimensions (mm)	Order no.			Item	Order no.
						
EF-D 21	200 x 150	21791	21794	21795	EF-D 21 PPL	21798
EF-D 32	300 x 200	22281	22284	22285	EF-D 32 PPL	22288
EF-D 43	400 x 300	15031	15034	15035	EF-D 43 PPL	15038
EF-D 64	600 x 400	15041	15044	15045	EF-D 64 PPL	15048




### Lids with cast hooks or hinges

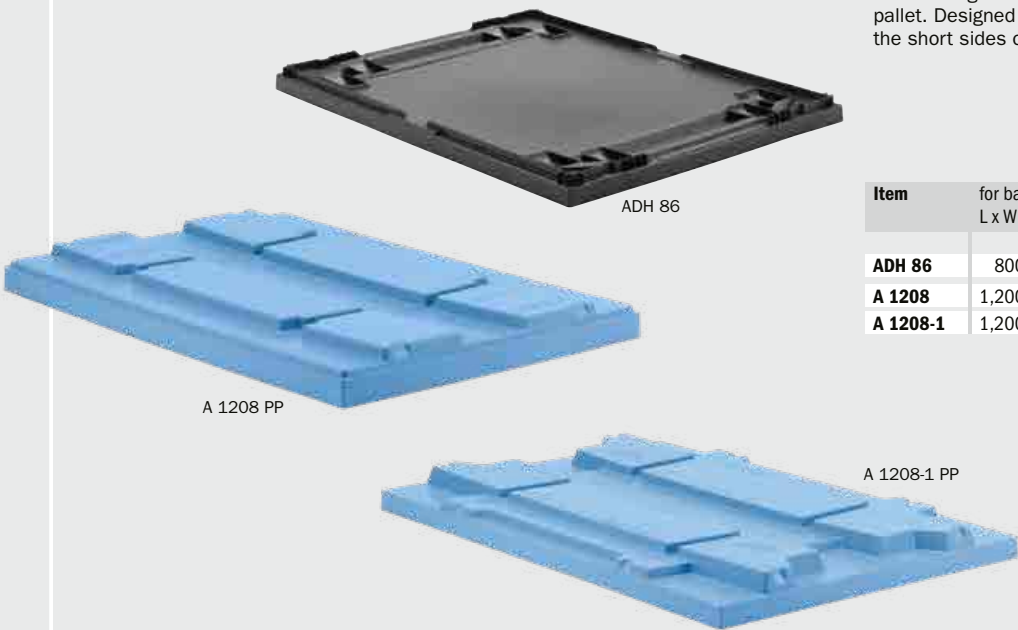
The lids with cast hooks is removable while the rotating and opening movement remains guided. Lid clips on request.

Item	for basic dimensions (mm)	Order no.			Item	Order no.
						
<b>With hooks</b> (clips on request)						
EF-D 21-H	200 x 150	39911	39914	39915	EF-D 21-H PPL	39918
EF-D 32-H	300 x 200	39921	39924	39925	EF-D 32-H PPL	39928
EF-D 43-H	400 x 300	39931	39934	39935	EF-D 43-H PPL	39938
EF-D 64-H	600 x 400	39941	39944	39945	EF-D 64-H PPL	39948
<b>With hinges</b>						
EF-D 21-S	200 x 150	21001	21004	21005	EF-D 21-S PPL	21008
EF-D 32-S	300 x 200	21021	21024	21025	EF-D 32-S PPL	21028
EF-D 43-S	400 x 300	21041	21044	21045	EF-D 43-S PPL	21048
EF-D 64-S	600 x 400	21081	21084	21085	EF-D 64-S PPL	21088

Lid with hooks





Lid clips (on request)



### Pallet covers

For covering entire stacks of containers on a euro pallet. Designed for banding with guiding grooves on the short sides of the pallet cover.

Item	for basic dimensions L x W (mm)	Order no.	
			
ADH 86	800 x 600	—	93628
A 1208	1,200 x 800	39704	—
A 1208-1	1,200 x 800	35614	—

Order no. = on stock

Accessories for standard EF containers

Roll-Fix




LTS tray with 4 swivel castors (Ø 80 mm).  
Closed platform made of polypropylene with 15 mm high stacking rim.  
Suitable for EF containers 600 x 400 mm.  
Load capacity: 200 kg.



Roll-Fix RO 460



Roll-Fix RO 461

Item	L x W x H (mm)	Type	Order no.		
					
RO 460	594 x 396 x 150	with plastic castors	22201	22205	—
RO 461	594 x 396 x 150	with solid rubber castors	22211	22215	—
RO 463 PPL	594 x 396 x 150	with conductive castors	—	—	22190



Roll-Fix RO 463

Dolly

For transporting EF containers.  
Suitable for transport with forklifts.  
Max. stacking height on the pallet 1.80 m.  
2 swivel castors and 2 rigid castors (Ø 125 mm). Ground clearance: 115 mm.  
Max. load 450 kg. Can be stacked securely on top of each other.  
Height when stacked 130 mm.  
Color: black.



Item	W x D x H (mm)	Order no.
RLP 86	800 x 600 x 200	93608



Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix



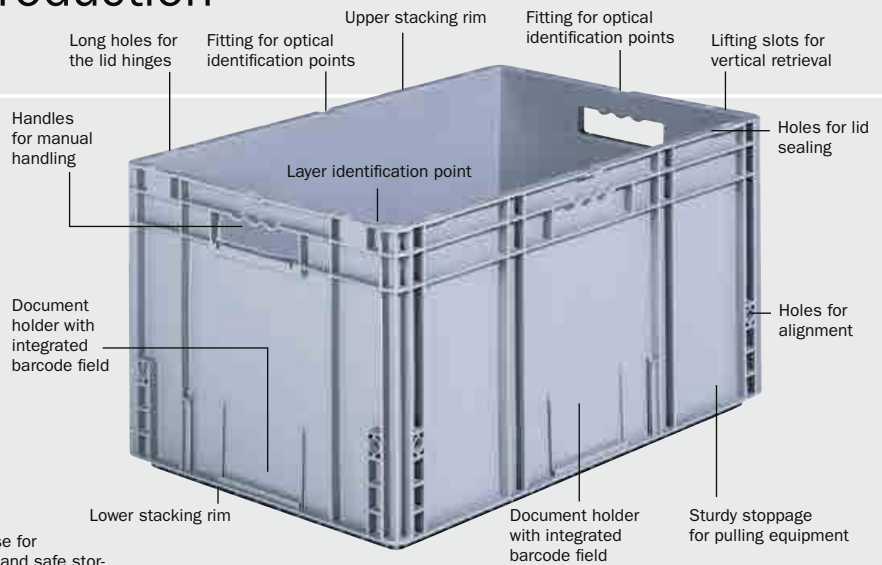
# MF range – the professional solution for automated warehousing and production

## MF multi-functional container range

The MF multi-functional container range is the ideal solution for all automated warehousing. They are perfect for production tasks or during reusable packaging for external goods transport. The series also features a double base for optimum conveying with high loads, comb-shaped ribs for perfect contact with all conveying sections and the open-rib tunnel underneath the running edge to prevent scooped areas.



Standard base for problem-free and safe storage using ASPW systems (max. content load 30 kg)



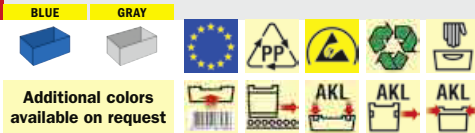
## MF containers

Item	Internal dimensions of the base L x W x H (mm) when stacked	Volume (liters)	Order no.	Order no.	Order no.
MF 2120	160 x 111 x 103	2.0	39044	39045	—
MF 2120 PPL			—	—	39048
MF 3120	267 x 168 x 102	5.2	39304	39305	—
MF 3120 PPL			—	—	39308
MF 4060	366 x 267 x 27	4.1	38734	38735	—
MF 4060 PPL			—	—	38738
MF 4120	360 x 261 x 87	10.0	39314	39315	—
MF 4120 PPL			—	—	39318
MF 4170	366 x 267 x 137	14.6	39324	39325	—
MF 4170 PPL			—	—	39328
MF 4220	366 x 267 x 187	19.7	39334	39335	—
MF 4220 PPL			—	—	39338
MF 4270	366 x 267 x 237	24.3	39494	39495	—
MF 4270 PPL			—	—	39498
MF 6070	564 x 366 x 34	10.2	39344	39345	—
MF 6070 PPL			—	—	39348
MF 6120	564 x 366 x 87	21.0	970088	970090	—
MF 6120 PPL			—	—	970091
MF 6170	564 x 366 x 135	30.8	39364	39365	—
MF 6170 PPL			—	—	39368
MF 6220	564 x 366 x 187	41.6	39374	39375	—
MF 6220 PPL			—	—	39378
MF 6270	564 x 366 x 237	52.0	39384	39385	—
MF 6270 PPL			—	—	39388

Order no. = on stock

Order no. = not on stock

## MF range



Additional colors  
available on request

- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions,  
sound insulation effect when used on conveying  
sections, when used properly dimensionally stable  
from -20° to +100°C
- **Keeps its shape and robust**
- **Base surround**  
for smooth quiet-running conveying
- **Reinforced base**  
for reliable and safe storage using ASPW systems
- **Compatible**  
with all Euro dimension containers
- **Optimum rib structure**  
for safe storage and transport
- **Smooth interior walls**  
for easy cleaning
- **High content loads**
- **Optional drainage holes in the base**  
as per the VDS directive for HHS3 classification

► **Conductive polypropylene (PPL)**

PPL BLACK

	normal PE/PP	PPL
Specific contact resistance	$10^{18}$ Ohm x cm <	$10^3$ Ohm x cm
Specific surface resistance	$10^{14}$ Ohm	$10^4$ Ohm



## Other container designs

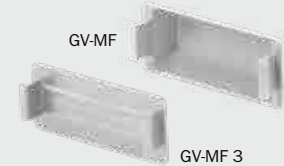
on request



## Insertable hand grips

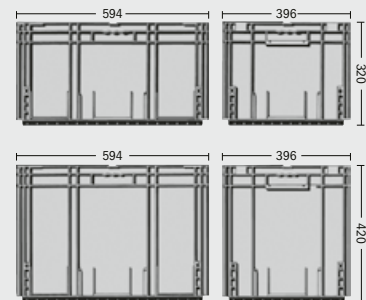
Made of polypropylene for subsequently closing the finger holes.  
PU: 50 items

Item	Order no.	
GV-MF	39794	39795
GV-MF 3	22374	22385



## MF containers

Item	Internal dimensions of the base L x W x H (mm) when stacked	Volume (liters)	Order no.		Order no.
MF 6320	564 x 366 x 287	62.3	39394	39395	—
MF 6320 PPL			—	—	39398
MF 6420	564 x 366 x 387	82.9	39404	39405	—
MF 6420 PPL			—	—	39408



## Insert boxes and suggested partitioning

on pages A29 – A31

## Lid

Dustproof closing. Sealable. Can also be stacked safely with a lid. Lifting slots for automated handling. \*) Design with the surrounding banding groove in the middle.

Two securing rings for the hinges and two clips to fasten the cover are included with the lid with cast hinges.

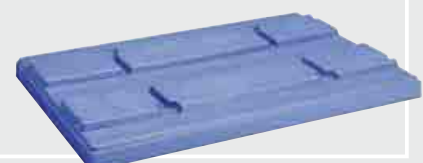


Item	for basic dimensions L x W (mm)	Order no.		Item	Order no.
<b>Auflagedeckel</b>					
MF-D 32	300 x 200	39464	39465	MF-D 32 PPL	39468
MF-D 43	400 x 300	39714	39715	MF-D 43 PPL	39718
MF-D 64*	600 x 400	39744	39745	MF-D 64 PPL	39748
<b>With hooks (lid clips on request)</b>					
MF-D 32 H	300 x 200	39854	39855	MF-D 32 H PPL	39858
MF-D 43 H*	400 x 300	39724	39725	MF-D 43 H PPL	39728
MF-D 64 H*	600 x 400	39754	39755	MF-D 64 H PPL	39758
<b>With hinges (lid clips on request)</b>					
MF-D 32 S	300 x 200	39474	39475	MF-D 32 S PPL	39478
MF-D 43 S*	400 x 300	39864	39865	MF-D 43 S PPL	39868
MF-D 64 S*	600 x 400	39874	39875	MF-D 64 S PPL	39878
<b>Pallet cover</b>					
A 1208	1,200 x 800	39704	—	—	—
A 1208-1**	1,200 x 800	35614	—	—	—



Lid with hooks

Lid clips



\*\* Figure see page A25



# LTB range – light and strong for transport and storage

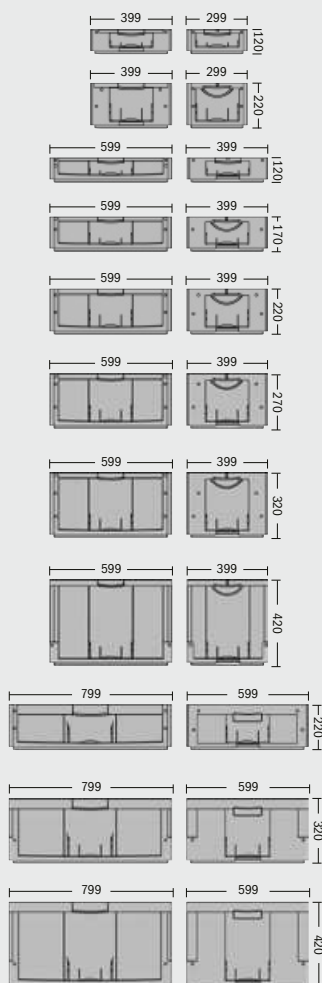
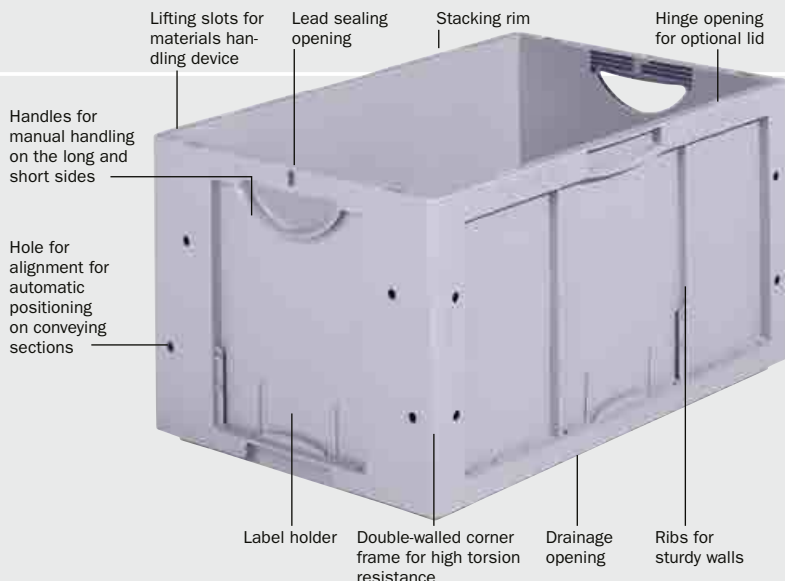
## LTB containers for warehousing and transportation

The LTB from SSI SCHAEFER provides especially high volume usage, reinforced top and bottom edges together with four sturdy corner supports.



Specially designed base variants guarantee that it can move along conveying sections without any difficulty. These characteristics ensure high torsion resistance and safe stacking. Its very low empty weight together with the reinforced standard base make it suitable for content weighing up to 50 kg. The variant with vibration-welded base (VS01) is suitable for content weighing up to 70 kg.

In addition to the open standard variant, the LTB is also available with single or piece hinged lid or a separate lid. When using these separate lid or the hinged lid, the LTB can be shipped and remains suitable for automated stacking and safe storage using ASPW systems or modular shelvings.

The LTB containers for warehousing and transportation from SSI SCHAEFER could be incremental in creating consistently automated material flow.



## LTB containers for warehousing and transportation – standard design

Item	Internal dimensions (base) L x W x H (mm)	Usable internal height when stacked (mm)	Volume (liters)	Base	Order no.
					 
<b>LTB 4120</b>	366 x 266 x 103	88	10.0		<b>75704 75705</b>
<b>LTB 4220</b>	366 x 266 x 203	188	19.8		<b>75744 75745</b>
<b>LTB 6120</b>	566 x 366 x 98	83	20.3		<b>75784 75785</b>
<b>LTB 6170</b>	566 x 366 x 148	133	30.7		<b>75804 75805</b>
<b>LTB 6220</b>	566 x 366 x 198	183	41.0		<b>75824 75825</b>
<b>LTB 6270</b>	566 x 366 x 248	233	51.4		<b>75844 75845</b>
<b>LTB 6320</b>	566 x 366 x 298	283	61.7		<b>75864 75865</b>
<b>LTB 6420</b>	566 x 366 x 398	383	82.3		<b>86064 86065</b>
<b>LTB 8220 VS05</b>	755 x 555 x 197	177	84.5	<b>VS</b>	<b>76024 76025</b>
<b>LTB 8320 GL</b>	752 x 552 x 317	297	135.0	<b>GL</b>	<b>76244 76245</b>
<b>LTB 8320 VS05</b>	755 x 555 x 297	277	125.0	<b>VS</b>	<b>76284 76285</b>
<b>LTB 8420 VS05</b>	755 x 555 x 397	377	165.0	<b>VS</b>	<b>76294 76295</b>

**GL** GL version with smooth base (max. load 25 kg) **VS** Vibration-welded base (VS01/VS05 base)

**Order no.** = on stock

**Order no.** = not on stock





Additional colors  
available on request

- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions,  
sound insulation effect when used on conveying  
sections, when used properly dimensionally stable  
from -20° to +100°C
- **Keeps its shape and robust**
- **Reinforced base**  
for reliable and safe storage using ASPW systems
- **Double-walled corner frame design**  
for high torsion resistance with high stacking loads
- **Smooth interior walls**  
for easy cleaning
- **Various handle versions**
- **Optional drainage holes in the base**  
as per the VDS directive for HHS3 classification
- **Compatible**  
with all Euro dimension containers
- **Conductive models**  
available on request

## Separate lids and pallet covers for the LTB range

**i** Other container designs  
on request



### Lid

Item	for containers with basic dimensions L x W (mm)	Incl. the following accessories	Order no.	
<b>Lid</b> (lid clips on request)				
<b>LTB-D 43</b>	400 x 300		<b>75904</b>	<b>75905</b>
<b>LTB-D 64</b>	600 x 400		<b>75914</b>	<b>75915</b>
<b>With hinges</b> (lid clips on request)				
<b>LTB-D 43 S</b>	400 x 300	2 lid hinges	<b>76204</b>	<b>76205</b>
<b>LTB-D 64 S</b>	600 x 400	2 lid hinges	<b>76214</b>	<b>76215</b>

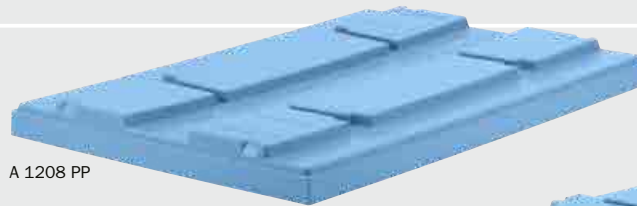


### Pallet covers

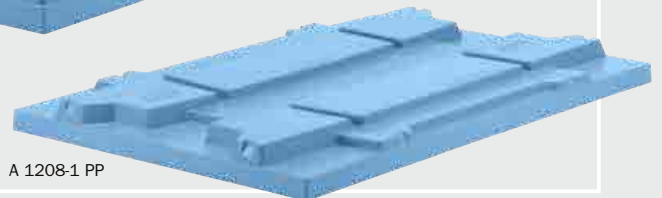
For covering entire stacks of containers on  
a euro pallet. Designed for banding with  
guiding grooves on the short sides of the  
pallet cover.

Item	for basic dimensions L x W (mm)	Order no.
<b>A 1208</b>	1,200 x 800	<b>39704</b>
<b>A 1208-1</b>	1,200 x 800	<b>35614</b>

A 1208 PP



A 1208-1 PP



# LTF range – containers for automated warehousing

## LTF range containers

The various base designs of the storage and transport fix range containers (LTF) enable content loads of up to 70 kg depending on the specific version.

Vertical sidewalls ensure that the internal dimensions are optimally usable. With their special corner frame design, they are capable of handling high stacking loads and are also easy to clean.

The containers also feature VDA label slots, adhesive surfaces for barcodes, vertical lifting slots and holes for alignment as well as transponder retaining elements. Further options also include drainage holes in the base as per the VDS directive for the HHS 3 classification and diverse handle versions.

The LTF is compatible with VDA standard elements (e.g. A 1208, see KLT).

Long hole for lid hinge, compatible with the MF range

Lid sealing holes, compatible with the MF range

Lifting slots for vertical retrieval, compatible with the MF range

Double-walled corner frame for high stacking loads

Sturdy structure for pulling equipment (short/long sides), rounded corners, advantageous for conveying sections

Large adhesive or hot stamping surfaces

Holes for alignment

Label holder with integrated barcode adhesive strip (short/long sides)

Retaining element for label securing wire (short/long sides)

Retaining option for check card transponder (short/long sides)



Standard base  
(max. content load 30 kg)



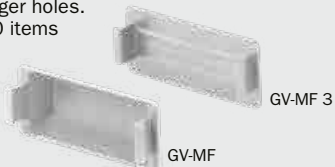
## LTF containers

Item	Internal dimensions of the base L x W x Usable H (mm)	Volume (liters)	Order no.
LTF 6120	564 x 366 x 87	21.0	35764 35765
LTF 6220	564 x 366 x 187	42.0	35724 35725
LTF 6280	564 x 366 x 247	53.8	35704 35705
LTF 6320 LTF 6320 PPR*	564 x 366 x 287	62.7	35734 35735 - 591216

\* from recycled material

## Insertable hand grips

Made of polypropylene for subsequently closing the finger holes.  
PU: 50 items



Item	Type	Order no.
GV-MF	curved	39794 39795
GV-MF 3	smooth	22374 22385

## Label holder



Item	Order no.
LTF-E	16020

Order no. = on stock

BLUE GRAY PPR

Additional colors  
available on request

- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C
- **The Blue Angel**  
for high quality PPR from top suppliers,  
**only LTF 6320 PPR**
- **Keeps its shape and robust**
- **Base surround**  
for smooth quiet-running conveying
- **Reinforced base**  
for reliable and safe storage using ASPW systems
- **Double-walled corner frame design**  
for high stacking loads
- **Smooth interior walls**  
for easy cleaning
- **Various handle versions**
- **Optional drainage holes in the base**  
as per the VDS directive for HHS3 classification
- **Compatible with all Euro dimension containers**
- **Conductive models**  
available on request

**Other special designs**

on request

**Lid**

Dustproof closing. Sealable LTF containers can also be stacked safely with lids. Lifting slots for automated handling. \*) Design with the surrounding banding groove in the middle.

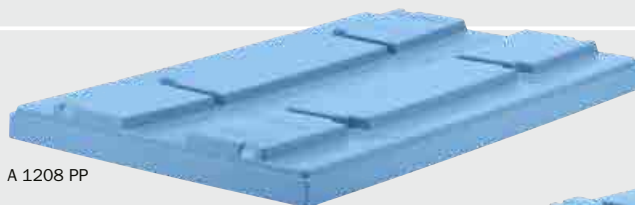
Item	Type	Order no.	
MF-D 64*	Lid	39744	39745
MF-D 64 H*	with hooks (lid clips on request)	39754	39755
MF-D 64 S*	with hinge (lid clips on request)	39874	39875

**Pallet covers**

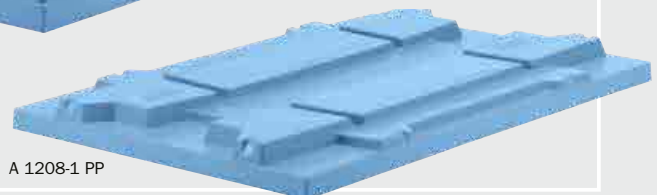
For covering entire stacks of containers on a euro pallet. Designed for banding with guiding grooves on the short sides of the pallet cover.

Item	for basic dimensions L x W (mm)	Order no.
A 1208	1,200 x 800	39704
A 1208-1	1,200 x 800	35614

A 1208 PP



A 1208-1 PP





## Insert boxes – to control the chaos

Without insert boxes the storage areas and workshops in many companies descend into unending chaos. They are the ideal solution for organizing and safely storing numerous small parts. SSI SCHAEFER's insert boxes more than just a means of creating order in boxes, drawers and containers. There are also essential for making the very best use of the space available in carriers and containers.

Furthermore, these flexible insert boxes are also incredibly rugged. Available in innumerable designs, they are resistant to most oils, acidic and alkaline solutions while their smooth inner walls also make them easy to clean. They eliminate the need to search for items as everything is where it is supposed to be.



BLUE PPL BLACK

**Polypropylene**

resistant to most oils, acidic and alkaline solutions, when used properly dimensionally stable from -20° to +100°C

**4 sizes can be combined**

with Euro containers with  
**300 x 200, 400 x 300 and 600 x 400 mm bases**

**Keeps its shape and robust****Smooth interior walls**

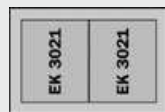
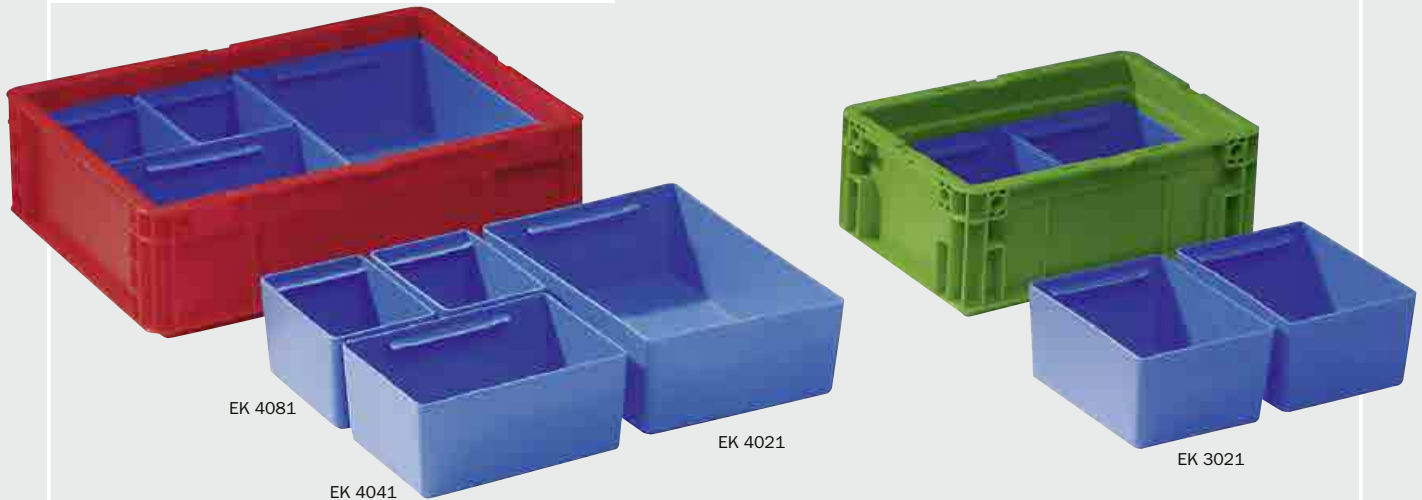
for easy cleaning

**Drainage holes**

in the insert boxes for automated storage on request

# Insert boxes for EF, MF range

## Euro containers



Container 300 x 200 mm

Insert box	H (mm)	Divider
EK 3021	80	1/2 transverse



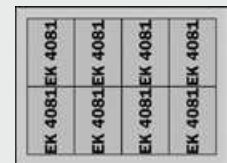
Container 400 x 300 mm

Insert box	H (mm)	Divider
EK 4021	80	1/2 transverse



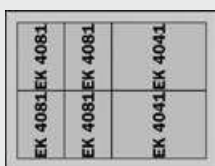
Container 400 x 300 mm

Insert box	H (mm)	Divider
EK 4041	80	1/4



Container 400 x 300 mm

Insert box	H (mm)	Divider
EK 4081	80	1/8



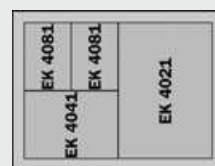
Container 400 x 300 mm

Insert box	Height (mm)
4 x EK 4081	80
2 x EK 4041	80



Container 400 x 300 mm

Insert box	Height (mm)
4 x EK 4081	80
1 x EK 4021	80



Container 400 x 300 mm

Insert box	Height (mm)
2 x EK 4081	80
1 x EK 4041	80
1 x EK 4021	80



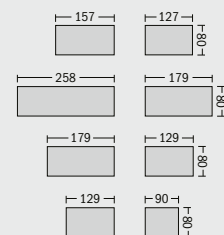
Container 400 x 300 mm

Insert box	Height (mm)
2 x EK 4041	80
1 x EK 4021	80

### Insert boxes for Euro containers with 300 x 200/400 x 300 mm bases

Item	for containers (mm)	Dimensions L x W x H (mm)	PU	Order no.	
EK 3021	300 x 200	157 x 127 x 80	84	1184	—
EK 3021 PPL				—	1188
EK 4021	400 x 300	258 x 179 x 80	36	1914	—
EK 4021 PPL				—	1918
EK 4041	400 x 300	179 x 129 x 80	48	1924	—
EK 4041 PPL				—	1928
EK 4081	400 x 300	129 x 90 x 80	64	1934	—
EK 4081 PPL				—	1938

Order no. = on stock



Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix



BLUE

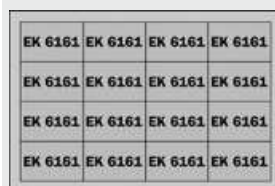
PPL BLACK



# Insert boxes for EF, MF and LTF range Euro containers

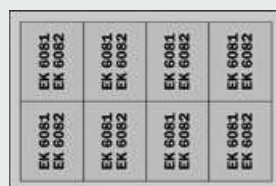


- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions, when used properly dimensionally stable from -20° to +100°C
- **6 sizes can be combined**  
with Euro containers with **600 x 400 mm base**
- **Smooth interior walls**  
for easy cleaning
- **Drainage holes**  
in the insert boxes for automated storage on request



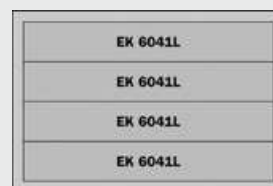
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 6161	80	1/16



Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 6081	80	1/8
EK 6082	150	1/8



Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 6041 L	80	1/4 longitudinal



Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 6041	80	1/4
EK 6042	150	1/4



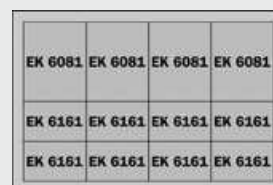
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 6021	80	1/2 longitudinal
EK 6022 L	150	1/2 longitudinal



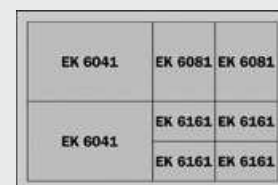
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 6021 Q	80	1/2 transverse
EK 6022 Q	150	1/2 transverse



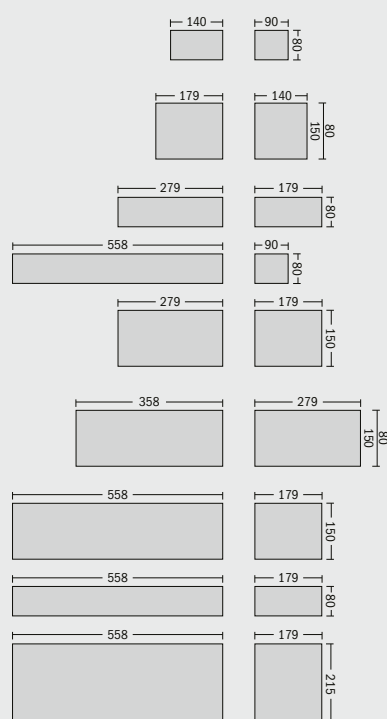
Container 600 x 400 mm

Insert box	Height (mm)
4 x EK 6081	80
8 x EK 6161	80



Container 600 x 400 mm

Insert box	Height (mm)
2 x EK 6041	80
2 x EK 6081	80
4 x EK 6161	80



## Insert boxes for Euro containers with 600 x 400 mm base

Item	for containers (mm)	Dimensions L x W x H (mm)	PU	Order no.	
EK 6161	600 x 400	140 x 90 x 80	84	4764	—
EK 6161 PPL				—	4768
EK 6081	600 x 400	179 x 140 x 80	48	4754	—
EK 6081 PPL				—	4758
EK 6082	600 x 400	179 x 140 x 150	32	79354	—
EK 6082 PPL				—	79358
EK 6041	600 x 400	279 x 179 x 80	36	4734	—
EK 6041 PPL				—	4738
EK 6041 L	600 x 400	558 x 90 x 80	48	4744	—
EK 6041 L PPL				—	4748
EK 6042	600 x 400	279 x 179 x 150	18	4724	—
EK 6042 PPL				—	4728
EK 6021 Q	600 x 400	358 x 279 x 80	18	79364	—
EK 6021 Q PPL				—	79368
EK 6022 Q	600 x 400	358 x 279 x 150	12	4774	—
EK 6022 Q PPL				—	4778
EK 6022 L	600 x 400	558 x 179 x 150	12	4714	—
EK 6022 L PPL				—	4718
EK 6021	600 x 400	558 x 179 x 80	24	1944	—
EK 6021 PPL				—	1948
EK 6023 L	600 x 400	558 x 179 x 215	24	4784	—
EK 6023 L PPL				—	4788

Order no. = on stock

Order no. = not on stock





### Polystyrene

Polystyrene is very hard and keeps its shape due to its amorphous structure

### 6 sizes can be combined

with Euro containers with 600 x 400 mm base

### Smooth interior walls

for easy cleaning

### Drainage holes

in the insert boxes for automated storage on request

## Insert boxes for EF range Euro containers

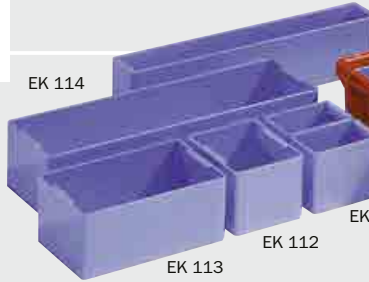
EK 14-4 PS



EK 115



EK 114



EK 113

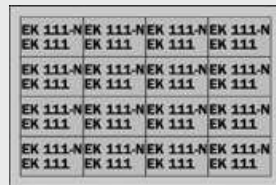
EK 112

EK 111



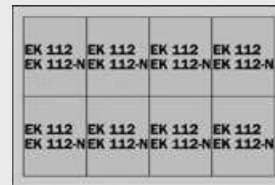
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 110-N	96	1/32



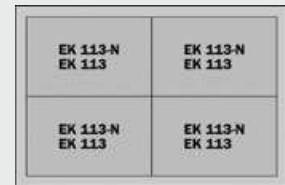
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 111-N	96	1/16
EK 111	110	1/16



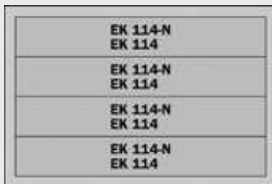
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 112-N	96	1/8
EK 112	110	1/8



Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 113-N	96	1/4
EK 113	110	1/4



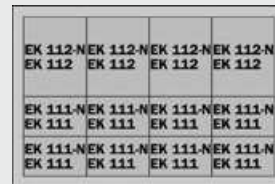
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 114-N	96	1/4 longitudinal
EK 114	110	1/4 longitudinal



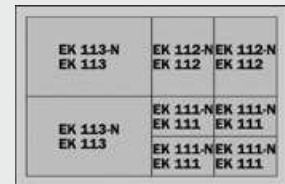
Container 600 x 400 mm

Insert box	H (mm)	Divider
EK 115-N	96	1/2 longitudinal
EK 115	110	1/2 longitudinal



Container 600 x 400 mm

Insert box	Height (mm)
4x EK 112 /-N	96 / 110
8x EK 111 /-N	96 / 110



Container 600 x 400 mm

Insert box	Height (mm)
2x EK 113 /-N	96 / 110
2x EK 112 /-N	96 / 110
4x EK 111 /-N	96 / 110

### Insert boxes for Euro containers with 600 x 400 mm base

Item	for containers (mm)	Dimensions L x W x H (mm)	PU	Order no.	
EK 110-N PS	600 x 400	68 x 87 x 96	96	4704	—
EK 110-N PPL				—	4708
EK 111-N PS	600 x 400	137 x 87 x 96	48	4364	—
EK 111-N PPL				—	4368
EK 111 PS	600 x 400	137 x 87 x 110	48	22644	—
EK 111 PPL				—	22648
EK 112-N PS	600 x 400	174 x 137 x 96	40	4374	—
EK 112-N PPL				—	4378
EK 112 PS	600 x 400	174 x 137 x 110	40	22634	—
EK 112 PPL				—	22638
EK 113-N PS	600 x 400	274 x 174 x 96	36	4384	—
EK 113-N PPL				—	4388
EK 113 PS	600 x 400	274 x 174 x 110	36	22624	—
EK 113 PPL				—	22628
EK 114-N PS	600 x 400	550 x 87 x 96	36	4394	—
EK 114-N PPL				—	4398
EK 114 PS	600 x 400	550 x 87 x 110	36	22614	—
EK 114 PPL				—	22618
EK 115-N PS	600 x 400	550 x 174 x 96	18	4404	—
EK 115-N PPL				—	4408
EK 115 PS	600 x 400	550 x 174 x 110	18	22604	—
EK 115 PPL				—	22608
EK 14-4 PS	600 x 400	355 x 184 x 80	48	7184	—
EK 14-4 PPL				—	7188





# Insert boxes for drawer partitioning

## Polypropylene

resistant to most oils, acidic and alkaline solutions,  
when used properly dimensionally stable from -20°  
to +100°C



## Polystyrene

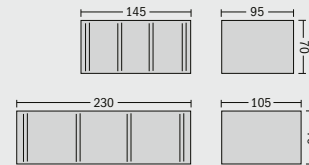
Polystyrene is very hard and keeps its shape due to its  
amorphous structure

## Smooth interior walls



for easy cleaning

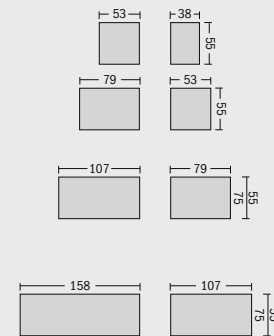
### Insert boxes for drawer partitioning

Item	Dimensions L x W x H (mm)	PU	Order no.
			 
EK 14-2 PP	145 x 95 x 70	20	<b>7101</b> <b>7104</b>
EK 14-3 PP	230 x 105 x 70	49	— <b>7174</b>





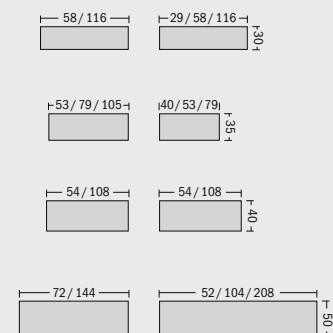
### Insert boxes for drawer partitioning

Item	Dimensions L x W x H (mm)	PU	Order no.
			 
EK 10 PS	53 x 38 x 55	40	<b>22761</b> <b>22764</b>
EK 9 PS	79 x 53 x 55	40	<b>22751</b> <b>22754</b>
EK 8 PS	107 x 79 x 55	30	<b>22741</b> <b>22744</b>
EK 12 PS	107 x 79 x 75	20	<b>22781</b> <b>22784</b>
EK 7 PS	158 x 107 x 55	15	<b>22731</b> <b>22734</b>
EK 11 PS	158 x 107 x 75	10	<b>22771</b> <b>22774</b>



### Insert boxes for drawer partitioning

Item	Dimensions L x W x H (mm)	PU	Order no.
			 
EK 301 PS	58 x 29 x 30	50	<b>4541</b> —
EK 303 PS	116 x 58 x 30	60	<b>4561</b> —
EK 304 PS	116 x 116 x 30	30	<b>4571</b> —
EK 351 PS	53 x 40 x 35	40	<b>22571</b> <b>22574</b>
EK 352 PS	79 x 53 x 35	50	<b>22581</b> <b>22584</b>
EK 353 PS	105 x 79 x 35	30	<b>22591</b> <b>22594</b>
EK 401 PS	54 x 54 x 40	40	— <b>4654</b>
EK 402 PS	54 x 108 x 40	60	— <b>4664</b>
EK 403 PS	108 x 108 x 40	24	— <b>4674</b>
EK 501 PS	72 x 52 x 50	40	<b>4901</b> <b>4904</b>
EK 502 PS	72 x 104 x 50	40	<b>4911</b> <b>4914</b>
EK 503 PS	144 x 104 x 50	20	<b>4921</b> <b>4924</b>
EK 504 PS	144 x 208 x 50	10	<b>4931</b> <b>4934</b>



Order no. = on stock

Order no. = not on stock

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



# QX range – Quality plus X

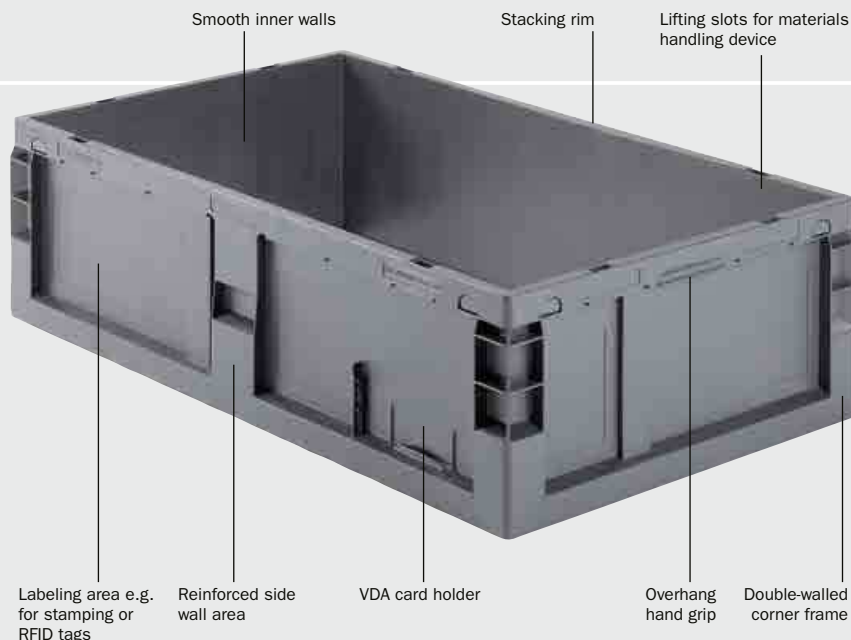
## QX range

When developing the QX family, SSI SCHAEFER's engineers moved away from the traditional container design with numerous ribs. We have succeeded in combining the best elements of recent product developments to create a state-of-the-art container.

Hollow-wall technology is used to make the container exceptionally sturdy. The variant with a vibration-welded base (VS) is capable of handling content loads of up to 70 kg. Naturally, the container is also suitable for conveyor systems and automatic handling systems.

Optionally, the QX can be produced with notches for fixing of vacuum-formed inserts or other component fittings. Standard containers have smooth inner walls. This is an advantage for on-board networks because nothing can jam. The smooth inner walls are also easy to keep clean.

However, the absolute highlight of this product is the innovative stacking rim. It is designed to completely prevent coarse dust and spray water (as per class IP 44) from entering the container.

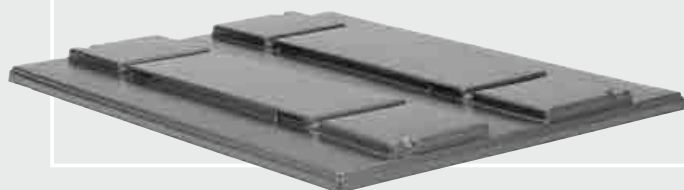
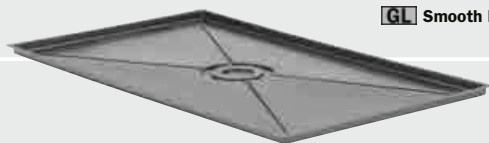
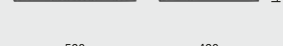


## QX container – base dimensions 600 x 500 mm

Item	Internal dimensions (base) L x W x H (mm)	Usable internal height when stacked (mm)	Volume (liters)	Base	Order No.
<b>QX 65094 GL01 PP</b>	546 x 446 x 87	67.8	20.7	<b>GL</b>	<b>1123676</b>
<b>QX 65094 VS01 PP</b>	546 x 446 x 71	51.0	17.2	<b>VS</b>	<b>1123680</b>
<b>QX 65114 GL01 PP</b>	546 x 446 x 107	87.8	25.5	<b>GL</b>	<b>56920</b>
<b>QX 65114 VS01 PP</b>	546 x 446 x 91	71.0	22.1	<b>VS</b>	<b>1123682</b>
<b>QX 65128 GL01 PP</b>	546 x 446 x 121	101.8	28.8	<b>GL</b>	<b>1123678</b>
<b>QX 65128 VS01 PP</b>	546 x 446 x 105	85.0	25.5	<b>VS</b>	<b>1123684</b>
<b>QX 65147 GL01 PP</b>	535 x 435 x 140.5	121.5	32.6	<b>GL</b>	<b>56950</b>
<b>QX 65147 VS01 PP</b>	544 x 444 x 124.5	104.5	30.0	<b>VS</b>	<b>56970</b>
<b>QX 65174 GL01 PP</b>	535 x 435 x 167	148.0	38.9	<b>GL</b>	<b>56980</b>
<b>QX 65174 VS01 PP</b>	544 x 444 x 151	131.0	36.5	<b>VS</b>	<b>57000</b>
<b>QX 65213 GL01 PP</b>	535 x 435 x 207	188.0	48.2	<b>GL</b>	<b>57010</b>
<b>QX 65213 VS01 PP</b>	544 x 444 x 191	170.5	46.1	<b>VS</b>	<b>57030</b>
<b>QX 65280 GL01 PP</b>	535 x 435 x 273	254.0	63.5	<b>GL</b>	<b>57040</b>
<b>QX 65280 VS01 PP</b>	544 x 444 x 257	237.0	62.1	<b>VS</b>	<b>57060</b>

**GL** Smooth base (max. content load 20 kg)

**VS** Vibration-welded base (max. content load 70 kg)



## Pallet covers and lids

Other colors and sizes available on request.

Item	L x W (mm)		Order No.
<b>QX-D 65</b>	600 x 500	Lid	<b>1200458</b>
<b>QX-D 106</b>	1,000 x 600	Lid	<b>1200121</b>
<b>QX-D 106-1</b>	1,000 x 600	Slip-on lid	<b>5810003</b>
<b>QX-A 1210</b>	1,200 x 1,000	Pallet cover	<b>5810005</b>

**Order No.** = on stock

**Order No.** = not on stock

## QX range

BLACK-



GRAY

Additional colors  
available on request

- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions,  
sound insulation effect when used on conveying  
sections, when used properly dimensionally stable  
from -20° to +100°C
- **Keeps its shape and robust**
- **Reinforced base**  
for reliable and safe storage using ASPW systems
- **Double-walled corner frame design**  
for high torsion resistance with high stacking loads
- **Lifting slots**  
for automated handling
- **Overhand hand grips**  
at both short sides
- **Innovative rim designed for water run-off**  
for protection against water and foreign bodies  
( $\varnothing > 1 \text{ mm}$ ) to IP 44
- **Optional drainage holes in the base**  
as per the VDS directive for HHS3 classification
- **Conductive models**  
available on request



QX containers with optional notches

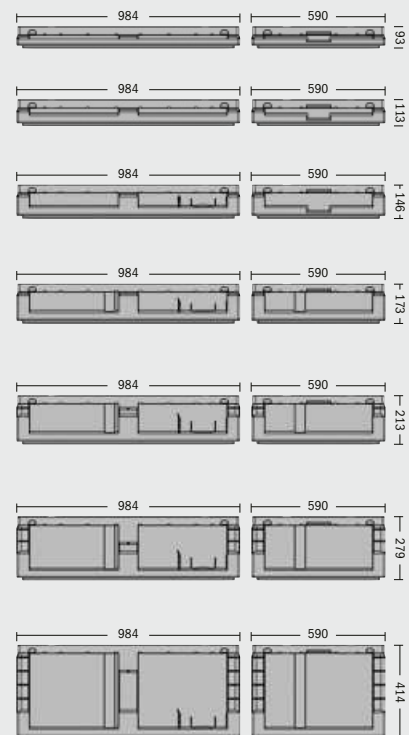
Smooth standard base GL01  
(max. content load 20 kg)Reinforced base with vibration-welded  
plate VS01 (max. content load 70 kg)

Matching plastic pallets

on request

## QX container – base dimensions 1,000 x 600 mm

Item	Internal dimensions (base) L x W x H (mm)	Usable internal height when stacked (mm)	Volume (liters)	Base	Order No.
QX 106094 GL01 PP	929 x 535 x 86	67.0	44.0	GL	57810
QX 106094 VS01 PP	938 x 544 x 70	50.0	36.0	VS	57830
QX 106114 GL01 PP	929 x 535 x 106	87.0	54.0	GL	57780
QX 106114 VS01 PP	938 x 544 x 91	71.0	46.0	VS	57800
QX 106147 GL01 PP	929 x 535 x 139	120.0	71.2	GL	57750
QX 106147 VS01 PP	938 x 544 x 124	104.0	63.5	VS	57770
QX 106174 GL01 PP	929 x 535 x 167	148.0	83.0	GL	57070
QX 106174 VS01 PP	938 x 544 x 151	131.0	77.1	VS	57090
QX 106213 GL01 PP	929 x 535 x 207	188.0	102.9	GL	56860
QX 106213 VS01 PP	938 x 544 x 191	170.5	97.5	VS	57110
QX 106280 GL01 PP	929 x 535 x 273	254.0	135.7	GL	57120
QX 106280 VS01 PP	938 x 544 x 257	237.0	131.1	VS	57140
QX 106415 GL01 PP	929 x 535 x 408	389.0	202.8	GL	57150
QX 106415 VS01 PP	938 x 544 x 392	372.0	200.0	VS	56710



GL Smooth base (max. content load 20 kg)

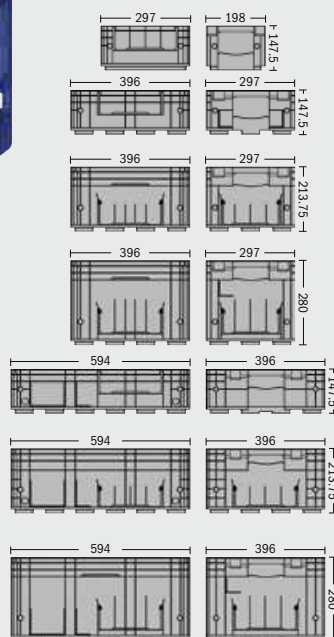
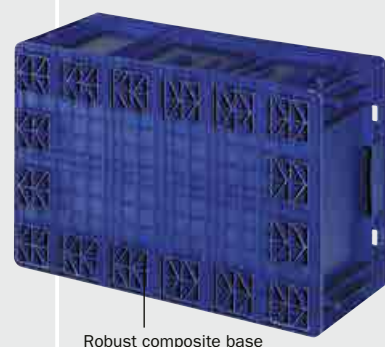
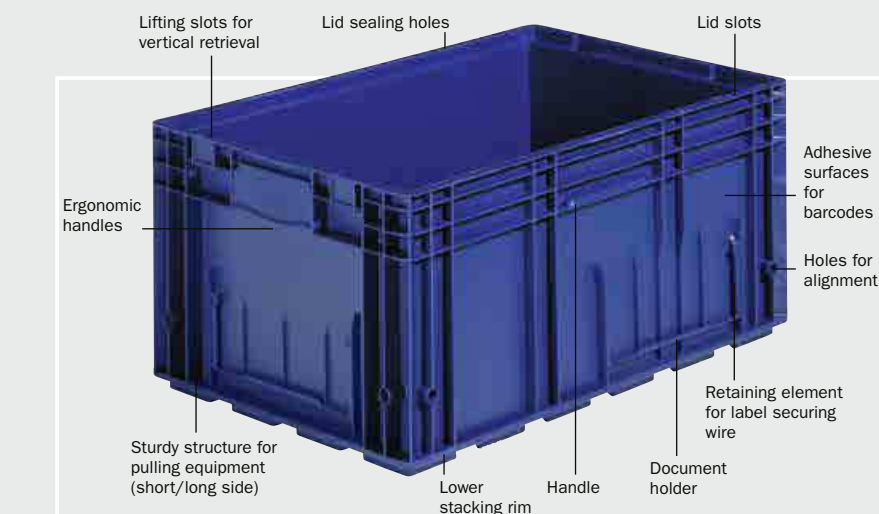
VS Vibration-welded base (max. content load 70 kg)

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



# R-KLT range to VDA 4500



## Polypropylene

resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C

## Keeps its shape and robust

## Fully recyclable

## Ergonomic handles

## Lifting slots

for automated handling

## Optimized usable volume

## Smooth interior walls

for easy cleaning

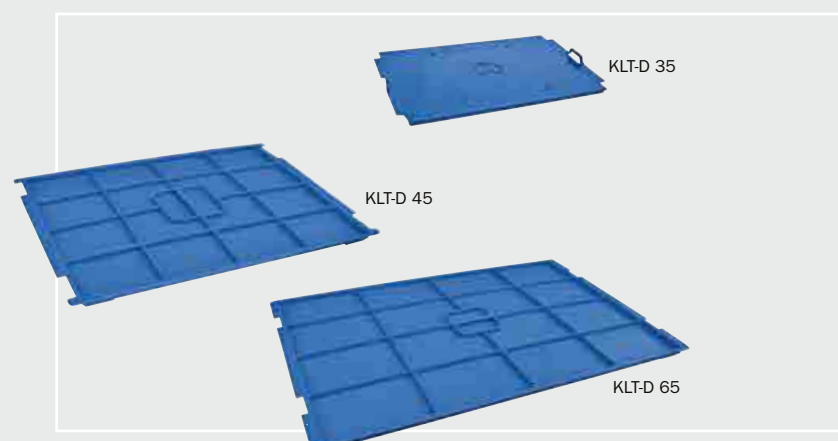
## Compatible

with all Euro dimension containers and KLT models

## VDA standard 4500

## R-KLT containers with composite base

Item	Internal dimensions of the base L x W x Usable H (mm)	Volume (liters)	Order No.
R-KLT 3215	243 x 162 x 129.5	5.3	20704
R-KLT 4315	346 x 265 x 109.5	10.1	20714
R-KLT 4322	346 x 265 x 176.1	16.2	79384
R-KLT 4329	346 x 265 x 242.3	22.3	20724
R-KLT 6415	544 x 364 x 109.5	21.8	20794
R-KLT 6422	544 x 364 x 175.8	34.9	79414
R-KLT 6429	544 x 364 x 242.0	48.1	20734



## On-line shelving

from page G1

## Lid

As per VDA recommendation 4500.

Compatible with the range RL-KLT.

Dustproof closing. Containers can also be stacked safely with a lid. Material: polypropylene. Color: blue (RAL 5005).

Item	for containers L x W (mm)	Order No.
KLT-D 35	297 x 198	20854
KLT-D 45	396 x 297	20834
KLT-D 65	594 x 396	20844

Order no. = on stock

Order no. = not on stock





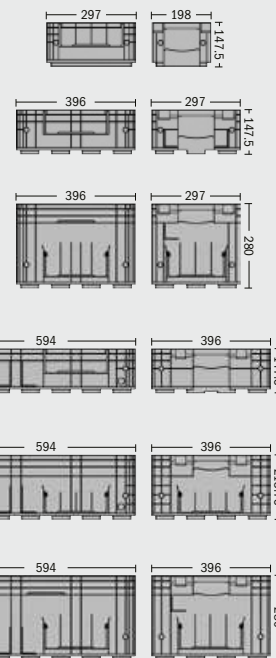
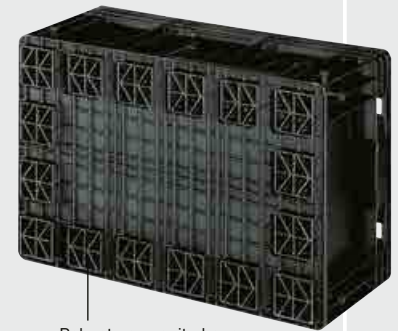
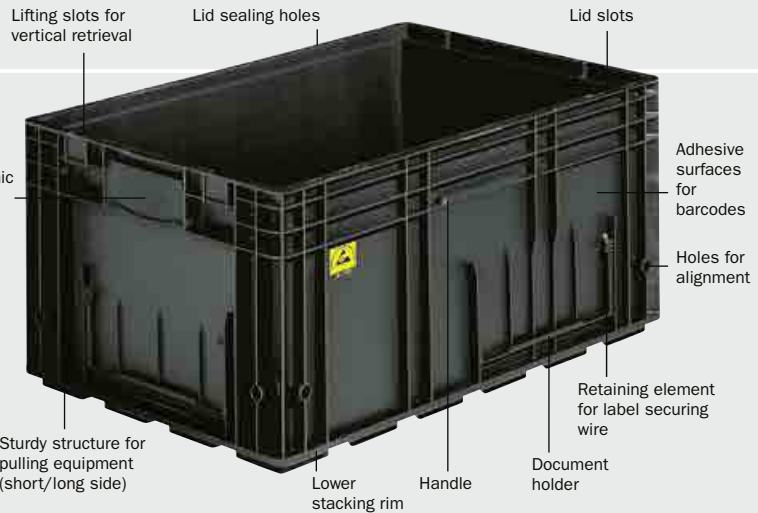
- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C
- **Keeps its shape and robust**
- **Fully recyclable**
- **Ergonomic handles**
- **Lifting slots**  
for automated handling
- **Optimized usable volume**
- **Smooth interior walls**  
for easy cleaning
- **Compatible**  
with all Euro dimension containers and KLT models
- **VDA standard 4504 / 4 – 10**

#### Electrostatic discharge polypropylene (PPL)

Specific contact resistance	normal PE/PP 10 <sup>18</sup> Ohm x cm <	<b>PPL</b> ≥ 1 x 10 <sup>4</sup> x ≤ 1 x 10 <sup>10</sup> Ohm
Specific surface resistance	10 <sup>14</sup> Ohm	≥ 1 x 10 <sup>4</sup> x ≤ 1 x 10 <sup>10</sup> Ohm

#### R-KLT containers – electrostatic discharge

Item	Internal dimensions of the base L x W x Usable H (mm)	Volume (liters)	Order No.
KLT 3115 ESD	243 x 162 x 129.5	5.3	20888
R-KLT 4115 ESD	346 x 265 x 109.5	10.1	20718
R-KLT 4129 ESD	346 x 265 x 242.3	22.3	20728
R-KLT 6115 ESD	544 x 364 x 109.5	21.8	20798
R-KLT 6122 ESD	544 x 364 x 175.8	34.9	79418
R-KLT 6129 ESD	544 x 364 x 242.0	48.1	20738



#### Lid

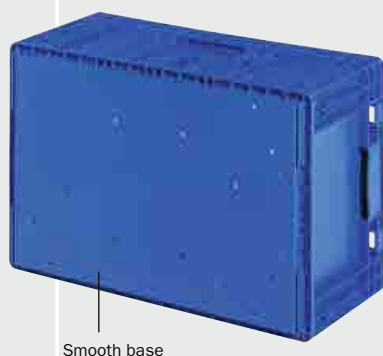
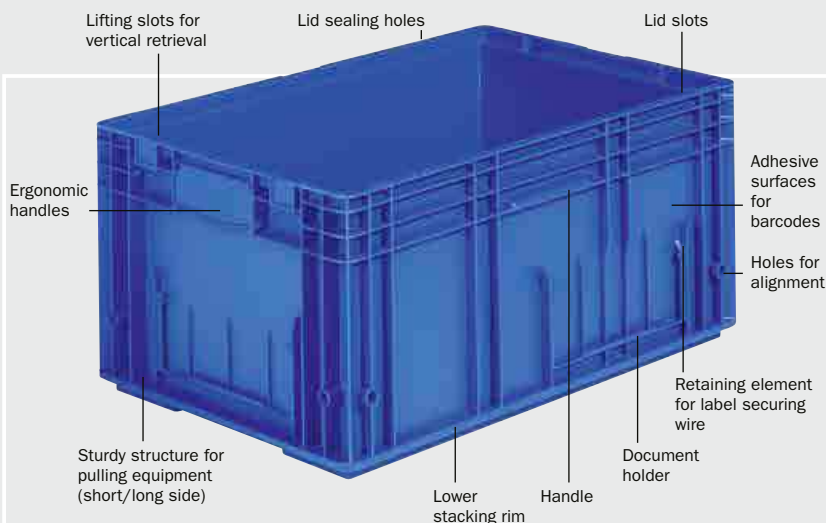
As per VDA recommendation 4504.  
Compatible with the range RL-KLT.  
Dustproof closing. Containers can also be stacked safely with a lid. Material: polypropylene, electrostatic discharge. Color: black.

Item	for containers L x W (mm)	Order No.
KLT-D 31 ESD	297 x 198	20838
KLT-D 41 ESD	396 x 297	20848
KLT-D 61 ESD	594 x 396	20858

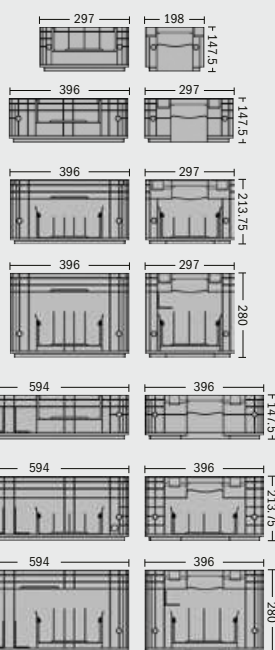




# RL-KLT range to VDA 4500

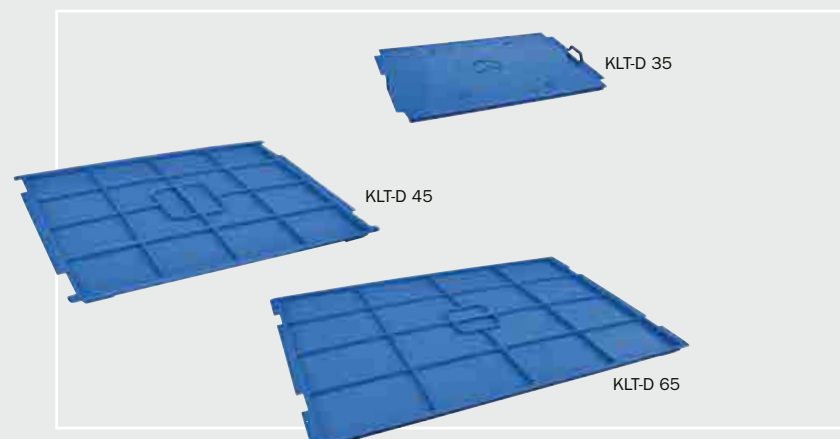


Smooth base



## RL-KLT containers with smooth base

Item	Internal dimensions of the base L x W x Usable H (mm)	Volume (liters)	Order No.
RL-KLT 3147	243 x 162 x 129.5	5.3	20744
RL-KLT 4147	345 x 260 x 129.5	11.8	20754
RL-KLT 4213	345 x 260 x 196.1	17.9	79374
RL-KLT 4280	345 x 260 x 262.3	24.2	20764
RL-KLT 6147	544 x 359 x 129.5	25.7	20784
RL-KLT 6213	544 x 359 x 195.8	38.9	79404
RL-KLT 6280	544 x 359 x 262.0	52.1	20774



## On-line shelving

from page G1

### Lid

As per VDA recommendation 4500.  
Compatible with the range RL-KLT.  
Dustproof closing. Containers can also be stacked safely with a lid. Material: polypropylene. Color: blue (RAL 5005).

Item	for containers L x W (mm)	Order No.
KLT-D 35	297 x 198	20854
KLT-D 45	396 x 297	20834
KLT-D 65	594 x 396	20844

Order No. = on stock



- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C
- **Keeps its shape and robust**
- **Fully recyclable**
- **Ergonomic handles**
- **Lifting slots**  
for automated handling
- **Optimized usable volume**
- **Smooth interior walls**  
for easy cleaning
- **Compatible**  
with all Euro dimension containers and KLT models
- **Optional drain holes in the base**  
as per the VDS directive for HHS 3 classification (with the exception of KLT 3115 ESD)

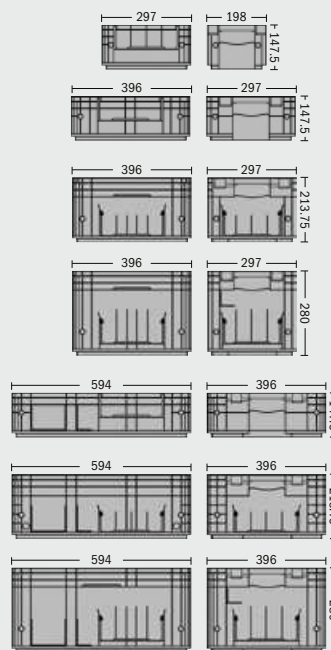
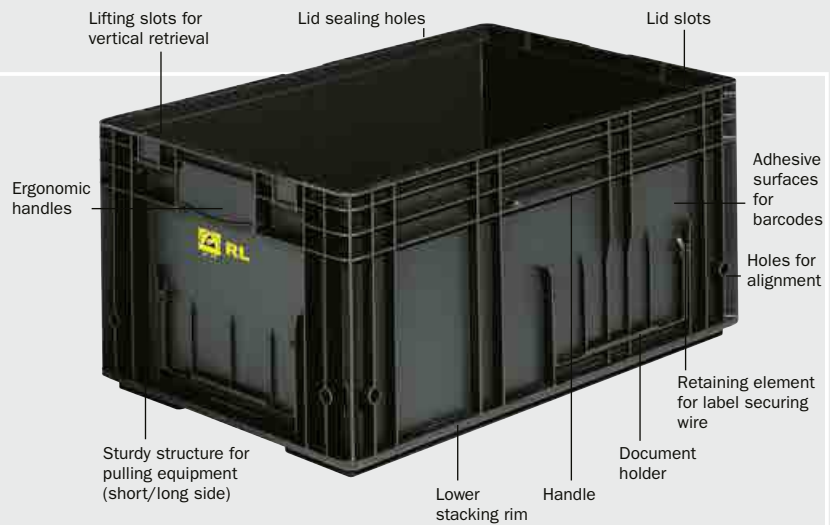
#### ► Electrostatic discharge polypropylene (PPL)

	normal PE/PP	PPL
Specific contact resistance	$10^{18}$ Ohm x cm <	$\geq 1 \times 10^4$ x $\leq 1 \times 10^{10}$ Ohm
Specific surface resistance	$10^{14}$ Ohm	$\geq 1 \times 10^4$ x $\leq 1 \times 10^{10}$ Ohm

#### RL-KLT containers – electrostatic discharge

Item	Internal dimensions of the base L x W x Usable H (mm)	Volume (liters)	Order No.
KLT 3115 ESD	243 x 162 x 129.5	5.3	20888
RL-KLT 4047 ESD	345 x 260 x 129.5	11.8	20898
RL-KLT 4013 ESD	345 x 260 x 196.1	17.9	1123608
RL-KLT 4080 ESD	345 x 260 x 262.3	24.2	20908
RL-KLT 6047 ESD	544 x 359 x 129.5	25.7	20868
RL-KLT 6013 ESD	544 x 359 x 195.8	38.9	1123618
RL-KLT 6080 ESD	544 x 359 x 262.0	52.1	20878

## RL-KLT range to VDA 4504 – electrostatic discharge



#### Lid

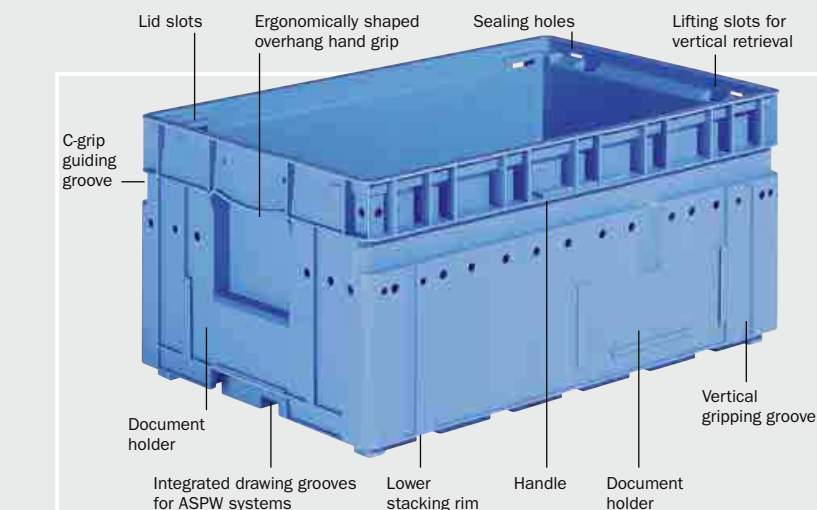
As per VDA recommendation 4504.  
Compatible with the range RL-KLT.  
Dustproof closing. Containers can also be stacked safely with a lid. Material: polypropylene, electrostatic discharge. Color: black.

Item	for containers L x W (mm)	Order No.
KLT-D 31 ESD	297 x 198	20838
KLT-D 41 ESD	396 x 297	20848
KLT-D 61 ESD	594 x 396	20858





# C-KLT range to VDA 4500



Robust composite base



## Polypropylene

resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C

## Keeps its shape and robust

## Fully recyclable

## Smooth interior walls

for easy cleaning

## Manual and automatic handling

## Secure stand and interlocking stacking

due to base ripping with stacking feet

## Usable in ASPW systems

due to drawing grooves on the short and sides

## Horizontal and vertical gripping

using the KLT grooves and lifting slots

## Gripping/clamping technology on the long side

due to two vertical grooves

## Automated parts removal

and transfer to empty stack

## Hazardous goods container

available with UN labeling

## VDA standard 4500

## C-KLT containers with composite base

Item	Int. dimensions of base L x W x Usable H (mm)	Volume (liters)	Filling weight max. (kg)	Stacking load max. (kg)*	Order No.
C-KLT 3214	260 x 136 x 129.9	4.7	30	400	15764
C-KLT 4314	334 x 247 x 105.5	8.7	50	600	15774
C-KLT 4321	334 x 247 x 171.8	14.2	50	600	1604
C-KLT 4328	334 x 247 x 238.0	19.6	50	600	15784
C-KLT 6414	532 x 346 x 100.5	18.5	50	600	15804
C-KLT 6417	532 x 346 x 127.0	23.4	50	600	1614
C-KLT 6421	532 x 346 x 166.8	30.7	50	600	1624
C-KLT 6428	532 x 346 x 233.0	42.9	50	600	15794

\* Distributed over the area

## Lid

Sealable, dustproof closing.. Containers with lid, stackable, immersion depth 15 mm.

Material: polypropylene, color: blue (RAL 5012).

Item	for containers L x W (mm)	Order No.
C-KLT-D 32	297 x 198	16514
C-KLT-D 43	396 x 297	16414
C-KLT-D 64	594 x 396	16424

## Layer separator

With rounded handles, protects sensitive stacked parts.

Material: polypropylene, color: blue (RAL 5012).

Item	Dimensions L x W x H (mm)	Order No.
ZL 43	329.0 x 243.0 x 3	39684
ZL 64	526.5 x 341.5 x 3	39694

Order No. = on stock

RAL 5012



### Folding KLT

folding dimension: 94.5 mm, stacked 79.5 mm,  
filling weight: 20 kg

### Durable

due to sturdy container design

### Fully compatible with all KLT boxes,

especially suitable for use in the automotive industry

### VDA standard 4500

### Volume reduction

of up to 65% for return transport



### Conductive polypropylene (PPL)

Specific  
contact resis-  
tance  
Specific  
surface resis-  
tance

normal PE/PP  
 $10^{18}$  Ohm x cm <  
 $10^{14}$  Ohm

PPL  
 $10^3$  Ohm x cm  
 $10^4$  Ohm

PPL BLACK



## Folding KLT as per VDA 4500

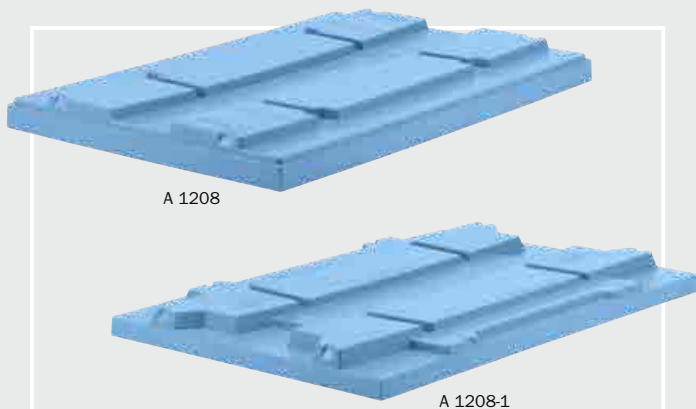


### Folding KLT as per VDA 4500 composite base

Item	Internal dimensions of the base L x W x Usable H (mm)	Volume (liters)	Order No.
F-KLT 6410	534 x 357 x 237.4	46.0	2204



Robust composite base



### Pallet covers

For covering entire stacks of containers on a euro pallet. Designed for banding. Suitable for all KLT containers.

Other colors and sizes available on request.

Item	for pallets L x W (mm)	Order No.
A 1208	1,200 x 800	39704
A 1208-1	1,200 x 800	35614
A 1208-1 ESD	1,200 x 800	35718

Order No. = not on stock

### Additional container versions and ranges

on request

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix

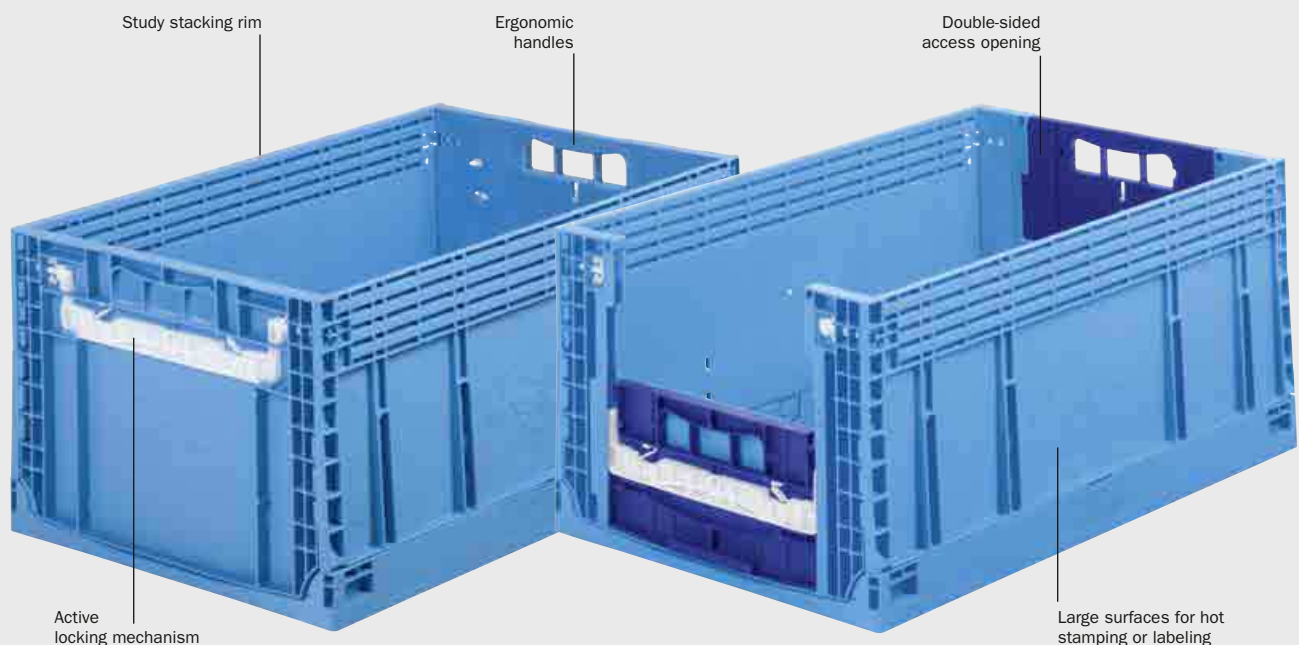
## ECOftech folding boxes for industrial applications

SSI SCHAEFER developed the ECOftech folding box with and without access openings for industrial applications. Equipped with an active locking mechanism and ergonomically shaped handles, this folding box generation can be followed up quickly and safely without any fixed order, which reduces volume by approximately 80%.

ECOftech is designed for all ASPW applications and conveyor systems and is also suitable for full automation. With a content load of 20 kg and a usable internal volume of 55 liters, the folding box has numerous applications for the industrial, commercial and service sectors.

The container variant with two-sided access opening and sliding mechanism enables especially rapid and safe access to the products. The large access opening on the short sides not only increases order picking performance but also enables articles to be removed easily when the container is stacked.

The ECOftech ECT folding box bears the “Product of the Year 2011” seal of quality. The innovative containers prevailed over the competition, taking first place in the storage and transport systems category in the best plastic product competition organized by the Pro-K association.







Additional colors  
available on request



# EC0tech ECT folding boxes



- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions,  
sound insulation effect when used on conveying  
sections, when used properly dimensionally stable  
from -20° to +100°C
- **Faster folding**  
without fixed folding sequence
- **Smooth interior walls**  
for easy cleaning
- **With reinforced base**  
also suitable for ASPW and conveyor systems
- **Suitable for full automation**
- **Volume reduced by approx. 80%**
- **Awarded "Product of the Year 2011"**  
by the Pro-K association in the  
"Storage and transport systems" category

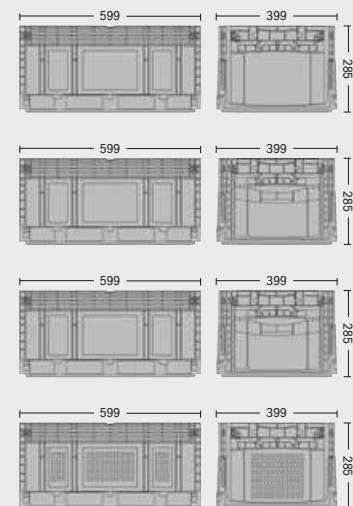


## EC0tech ECT 6285

Polypropylene. With an active locking mechanism and ergonomically shaped handles, alternatively with access opening on one or both sides.

Height collapsed individually: 59 mm  
Height collapsed in a stack: 49 mm  
Max. content load: 20 kg

Item	Internal dimensions of the base L x W x Usable H (mm)	Access opening W x H (mm)	Volume (liters)	Order No.
				 
<b>ECT 6285 GL</b>	563 x 367 x 272.5 with active locking mechanism	-	55.8	<b>54044 54045</b>
<b>ECT 6285 GL-1SK</b>	563 x 367 x 272.5 with one-sided access opening	254 x 125	55.8	<b>56334 56335</b>
<b>ECT 6285 GL-2SK</b>	563 x 367 x 272.5 with two-sided access opening	254 x 125	55.8	<b>56344 56345</b>
<b>ECT 6285 GT</b>	563 x 367 x 269 with perforated bases and sides	-	55.8	<b>54064 54065</b>



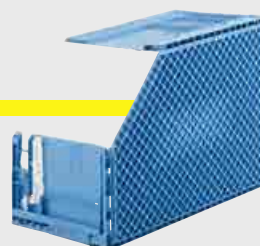
Order No. = on stock

Order No. = not on stock



Other container designs

on request



# FK – the foldable and collapsible containers for warehousing and transportation

The demanding standards of the current packaging regulations require reusable transport containers. These containers are essential to the prevention of packaging waste. Depending on the type of box, folding reduces the container volume by approx. 80% for empty return transport.

All of the folding plastic containers from SSI SCHAEFER are designed

for euro pallet dimensions. The FK containers are distinguished by their large, rigid upper lip. The boxes are very torsion-resistant, which ensures safe stacking, especially when used without a lid.

The collapsible design can be used only with a lid and represents a cost-effective alternative to the folding design when shipping light goods.

BLUE GRAY



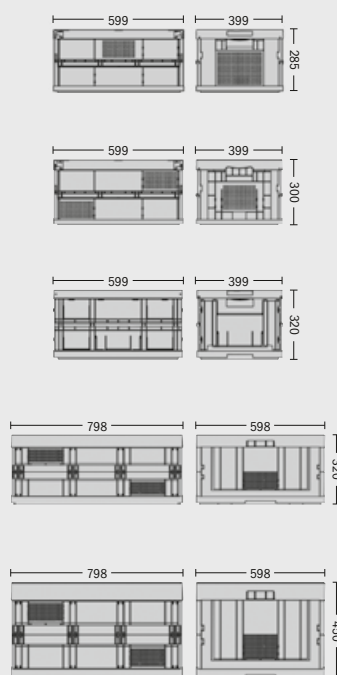
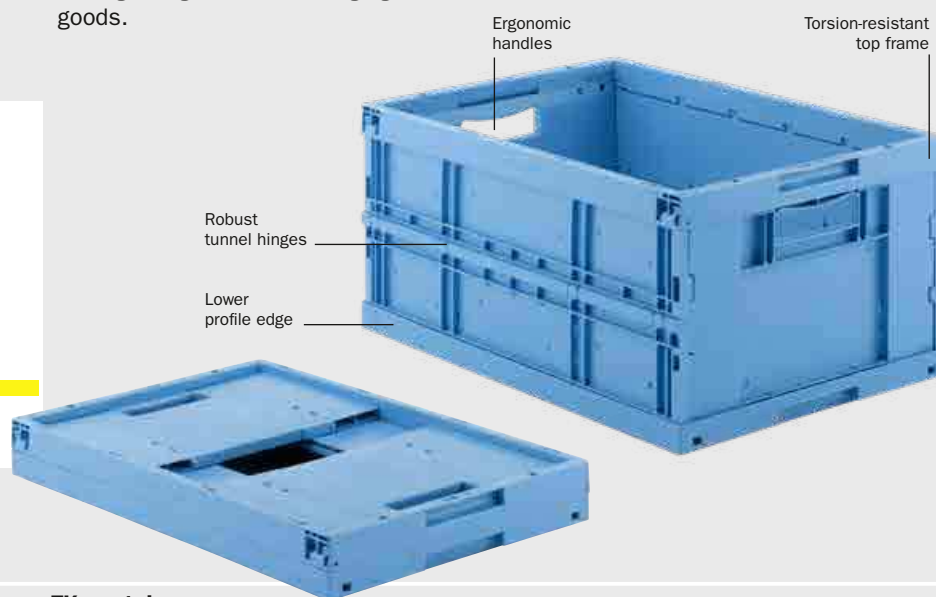
Additional colors available on request

- **Polypropylene**  
resistant to most oils, acidic and alkaline solutions, sound insulation effect when used on conveying sections, when used properly dimensionally stable from -20° to +100°C
- **Nominal sizes:**  
600 x 400 mm / 800 x 600 mm
- **Keeps its shape and robust**
- **Good handling**  
thanks to ergonomic handle variants
- **Hinged, divided lid**  
secured with seal
- **With base ripping**  
also suitable for APSW systems
- **Volume reduced by approx. 80%**



**Other container designs**

on request



## FK containers

Item	External dimensions L x W x H (mm)	Volume (liters)	H (mm) folded	H (mm) folded in stack	Order No.
<b>FKE 6285</b>	599 x 399 x 285	57.0	79	69	<b>93684</b> <b>93685</b>
<b>FK 6300</b>	599 x 399 x 300	58.0	74	67	<b>93384</b> <b>93385</b>
<b>FKE 6320-2</b>	599 x 399 x 320	65.0	79	69	<b>90404</b> <b>90405</b>
<b>FKE-D 6320-2</b>	599 x 399 x 332	65,0	91	71	<b>90424</b> -
<b>FK 8320</b>	798 x 598 x 320	126.0	135	123	<b>9264</b> <b>9265</b>
<b>FK 8450</b>	798 x 598 x 450	180.0	135	123	<b>93364</b> <b>93365</b>
<b>FK-DL 8450</b>	with lid, interior, front hinged			126	<b>93474</b> -

Order No. = on stock

Order No. = not on stock

Accessories for FK containers



Pallet cover

Stackable. For covering stacked FK containers. With banding grooves and indentations for stacking dollies. Height when stacked 30 mm. Color: black.

Item	Dimensions L x W x H (mm)	Order No.
ADH 86	814 x 614 x 44	93628



Roll-Fix

LTS tray with 4 swivel castors Ø 80 mm. Closed platform made of polypropylene with 15 mm high stacking rim. Suitable for FK containers 600 x 400 mm. Load capacity: 200 kg.

Item	Dimensions L x W x H (mm)	Type	Order No.
R0 460	594 x 396 x 150	with plastic castors	22201 22205
R0 461	594 x 396 x 150	with solid rubber castors	22211 22215



Dolly

Dolly with 2 swivel castors and 2 rigid castors Ø 125 mm, ground clearance 115 mm, load capacity up to 450 kg. The dollies can be stacked securely for return transport and storage. Height when stacked 130 mm. The maximum stacking height on the pallet is 1.80 m. The dolly guarantees easy transport of the FK containers in the order picking zone and within the company. The dolly is suitable for the transportation with forklifts (ground clearance 115 mm).

Item	Dimensions L x W x H (mm)	Order No.
RLP 86	800 x 600 x 200	93608



Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Canilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix



## Nesting storage and transport – saves space when empty



Nesting storage and transport containers offer economic solutions and diverse applications for reusable transport logistics and order picking.

The three basic options for reducing the volume of containers with rigid outer walls are:

- ▶ Tapered containers with bail arms – stackable either in or on top of each other using 180° lockable bail arms (see KMB with bail arms).
- ▶ Stack and nest containers can be stacked with and without a lid. If they are empty they can be stacked inside each other by rotating them 180°.
- ▶ Tapered containers can only be stacked on top of each other with a lid. When empty, they can be stacked inside each other without a lid.



BLUE

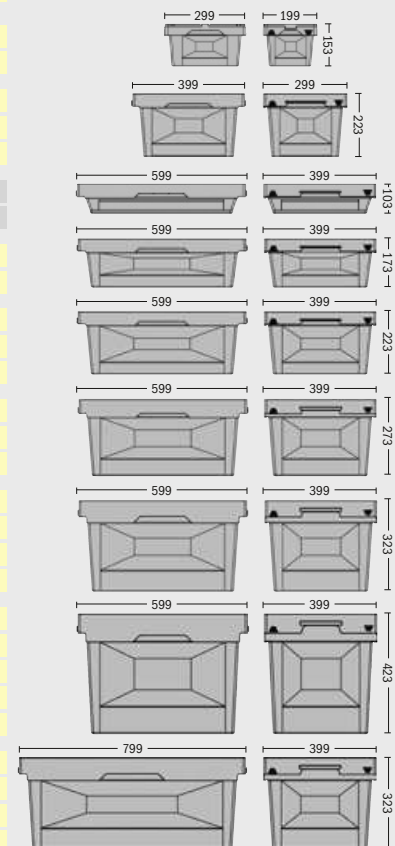

Additional colors  
available on request

- **Polypropylene**  
resistant to most acids and alkalis, when used correctly, retains its stability at temperatures between -20° and +90° Celsius, the base material is suitable for use with foodstuffs
- **Space gain**  
75% space gain when empty
- **Automatic unstacking possible**  
from sides and front
- **Ergonomic**  
thanks to comfortably designed hand grips
- **Easy cleaning**  
thanks to smooth surfaces and optional placed water drainage holes
- **Low noise**  
when used on conveying sections
- **Good grip**  
on belt conveyors due to rough base
- **Barcode areas**  
protected against damage and dust due to special arrangement


Smooth sub-floor  
(max. content load 20 kg)

### KMB – stack and nest multi-use containers with bail arms

Item	Internal dim. of the base L x W x Usable H (mm)	External dim. with anti-lifting device L x W (mm)	External dim. of the base L x W (mm)	Volume (liters)	Order no.
KS 3153	242 x 150 x 150	—	245 x 153	6.3	16474
KMB 422	315 x 235 x 220	407 x 299	320 x 240	18.0	75514
KMB 610	500 x 330 x 100	607 x 399	505 x 335	18.0	79324
KMB 617	500 x 330 x 170	607 x 399	505 x 335	29.0	75364
KMB 622	500 x 330 x 220	607 x 399	505 x 335	38.0	75544
KMB 627	500 x 330 x 270	607 x 399	505 x 335	47.0	75424
KMB 632	500 x 330 x 320	607 x 399	505 x 335	58.0	75604
KMB 642	500 x 330 x 420	607 x 399	505 x 335	74.0	75924
KMB 832	700 x 330 x 320	807 x 399	705 x 335	76.0	75664



Grip ribs prevent conveyor accumulation override



Bail arm opening



Side unstacking tool aperture after

Order No. = on stock

Order No. = not on stock

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix





Additional colours  
on request



#### In addition to:

the KMB advantages (see page A47)

- **Easy to handle bail arms**
- **High handling security**  
simple handling thanks to locking function
- **Exact fit**  
exact fit of the bail arms – turned out or turned in
- **Strong bail arms**  
material reinforced with glass fibre
- **Each bail arm is replaceable**
- **No limitation**  
of the effective volume

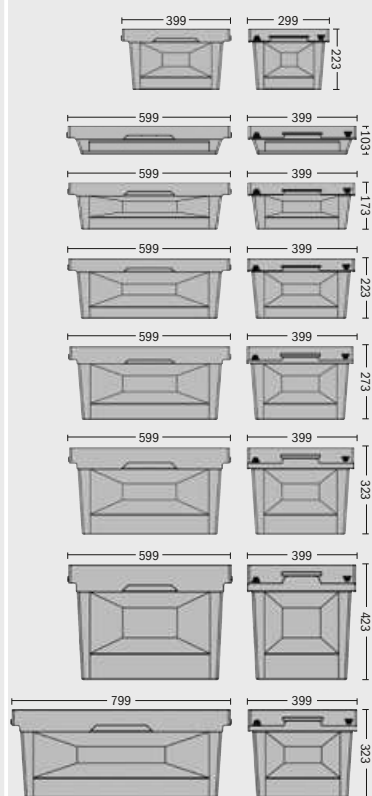


Stacking principal with  
bail arms



Bail arms for stacking when full or empty with a rotation of 180° and locking device

#### KMB – stack and nest multi-use containers with bail arms



Artikel	Internal dim. of the base L x W x Usable H (mm)	External dim. with anti-lifting device L x W (mm)	External dim. of the base L x W (mm)	Incl. the following accessories	Volume (liters)	Order No.
<b>KMB-B 422</b>	315 x 235 x 218	407 x 299	320 x 240	2 bail arms KMB-B 300	18.0	<b>75524</b>
<b>KMB-B 610</b>	500 x 330 x 98	607 x 399	505 x 335	2 bail arms KMB-B 400	18.0	<b>79334</b>
<b>KMB-B 617</b>	500 x 330 x 168	607 x 399	505 x 335	2 bail arms KMB-B 400	29.0	<b>75374</b>
<b>KMB-B 622</b>	500 x 330 x 208	607 x 399	505 x 335	2 bail arms KMB-B 400	38.0	<b>75554</b>
<b>KMB-B 627</b>	500 x 330 x 268	607 x 399	505 x 335	2 bail arms KMB-B 400	47.0	<b>75434</b>
<b>KMB-B 632</b>	500 x 330 x 318	607 x 399	505 x 335	2 bail arms KMB-B 400	58.0	<b>75614</b>
<b>KMB-B 642</b>	500 x 330 x 418	607 x 399	505 x 335	2 bail arms KMB-B 400	74.0	<b>75934</b>
<b>KMB-B 832</b>	700 x 330 x 318	807 x 399	705 x 335	2 bail arms KMB-B 400	76.0	<b>75674</b>



Bail arm folded for empty stacking



Bail arms folded in for stacking



Retaining mechanism of the bail arm

Order No. = on stock

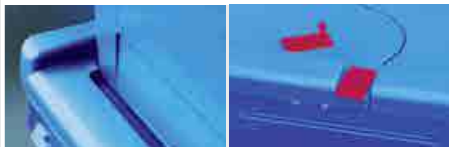
Order No. = not on stock





In addition to:  
to the KMB advantages (see page A47)

- **Stackable when closed**  
with various nominal sizes and heights
- **Optimally protects the stored goods**  
against soiling
- **High access security**  
due to crimp sealing
- **Additional securing**  
using banding grooves
- **Large volume reduction**  
when empty due to the closely fitting lid
- **Every lid can be replaced individually**  
due to the hinge system



Stacking with closed lid

Sealing



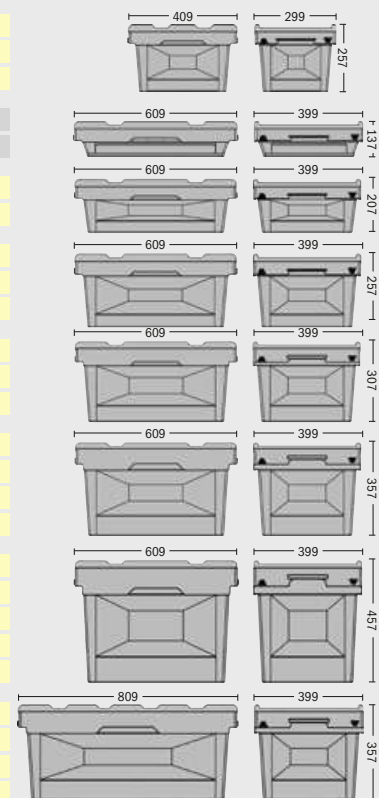
Stacking with  
hinged lid



#### KMB – stack and nest multi-use containers with hinged lid

Item	Internal dim. of the base L x W x Usable H (mm)	External dim. with anti-lifting device L x W (mm)	External dim. of the base L x W (mm)	Incl. the following accessories	Volume (liters)	Order No.
KMB-DH 422	315 x 235 x 213	409 x 299	320 x 240	1 x KMB-DH 43, 4 x KMB-DS*	18.0	75534
KMB-DH 610	500 x 330 x 92	609 x 399	505 x 335	1 x KMB-DH 64, 6 x KMB-DS*	18.0	79344
KMB-DH 617	500 x 330 x 162	609 x 399	505 x 335	1 x KMB-DH 64, 6 x KMB-DS*	29.0	75384
KMB-DH 622	500 x 330 x 212	609 x 399	505 x 335	1 x KMB-DH 64, 6 x KMB-DS*	38.0	75564
KMB-DH 627	500 x 330 x 262	609 x 399	505 x 335	1 x KMB-DH 64, 6 x KMB-DS*	47.0	75444
KMB-DH 632	500 x 330 x 312	609 x 399	505 x 335	1 x KMB-DH 64, 6 x KMB-DS*	58.0	75624
KMB-DH 642	500 x 330 x 412	609 x 399	505 x 335	1 x KMB-DH 64, 6 x KMB-DS*	74.0	75944
KMB-DH 832	700 x 330 x 311	809 x 399	705 x 335	1 x KMB-DH 84, 10 x KMB-DS*	76.0	75684

\* Hinged lid KMB-DH and hinges KMB-DS



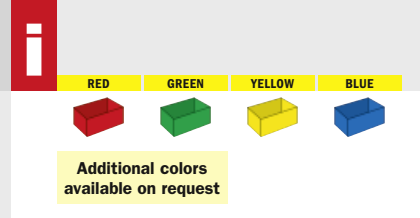
Crimp sealing option



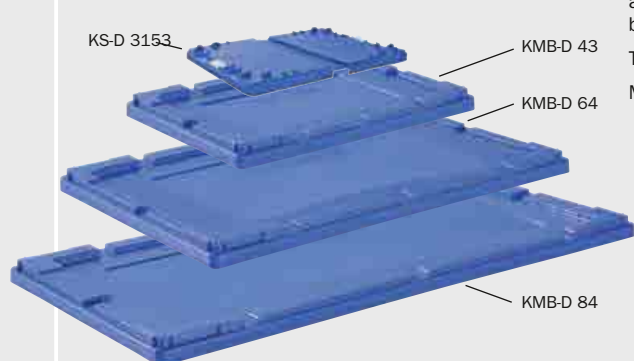
Lid folds outwards closely



Banding grooves



## Accessories for KMB



**Slip-on lid**

For the KMB-B range.

Lids completely encase the container and also include a banding option along with a sealing opening. The containers remain stackable even with a lid. Loose lids can be stacked together to save space.

The roughened center area simplifies label handling.

Material: Polypropylene.

Item	for nominal size L x W (mm)	Type	Order No.
<b>KS-D 3153</b>	300 x 200	with living hinge and snap-lock fastener, foldable	<b>16484</b>
<b>KMB-D 43</b>	400 x 300		<b>75344</b>
<b>KMB-D 64</b>	600 x 400		<b>75354</b>
<b>KMB-D 84</b>	800 x 400		<b>75334</b>

## KS tapered stack and nest containers



**KS 18**

Polypropylene, with label holders 100 x 60 mm on both sides in the lip for coding and labeling, smooth inner walls.

External dimensions top/bottom: L 775/655 x W 535/415 x H 310 mm

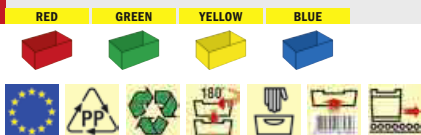
Item	Interior dimensions top/bottom L x W x H (mm)	Volume (liters)	Order No.
<b>KS 18</b>	720/640 x 480/400 x 307	90.0	<b>15171 15172 15173 15174</b>

**Lid for KS 18**

Item	Type	Order No.
<b>KS-D 18</b>	with banding grooves	<b>15291 15292 15293 15294</b>

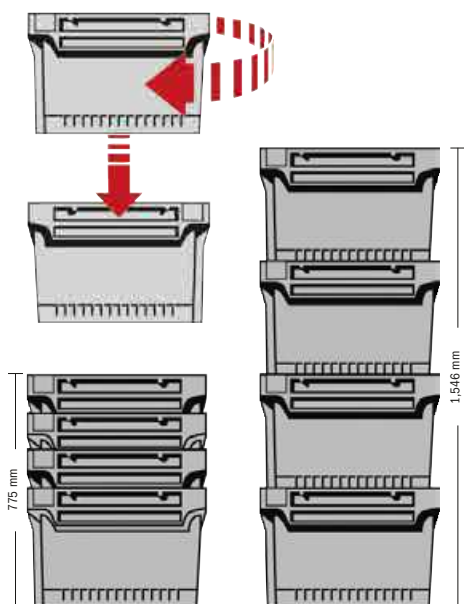
**i** Additional container versions and ranges  
on request



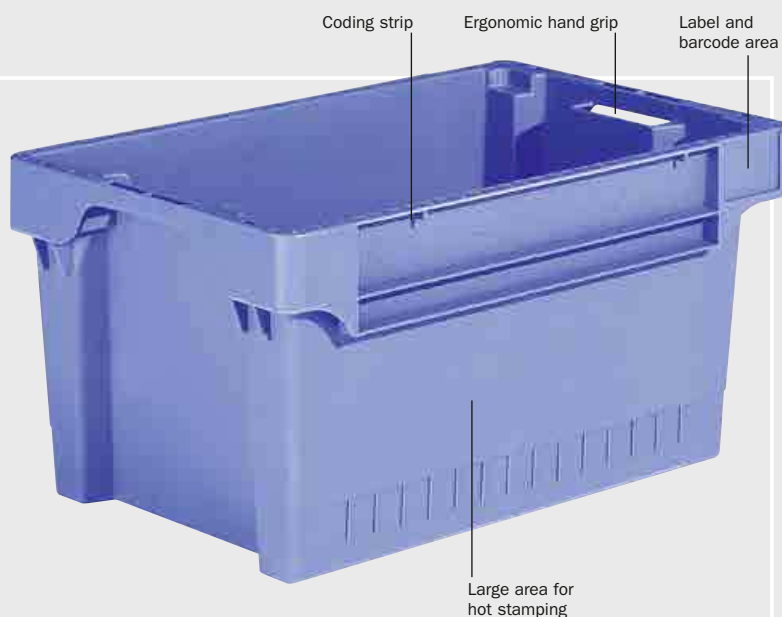


- A “stack and nest” container means that: when empty, the containers may be nested inside one another, but when full, they can be turned through 180° and stacked on top of each other even without lids

- **Enormous storage space saving** without surplus stock and transport of empty containers







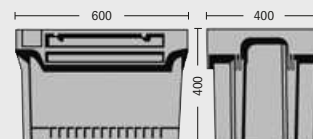
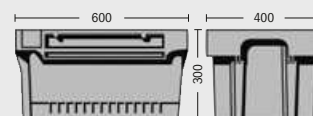
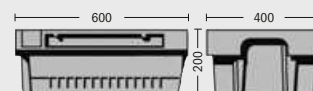
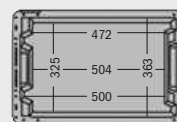
## EUROFIX Box



### Stack and nest container EUROFIX Box





Made from polypropylene with Euro dimensions (base dimension L 600 x W 400 mm). The three heights can be stacked together. Excellent qualities of the EUROFIX Box make it ideal for use on conveyors and as an environmentally friendly order-picking and transport container.

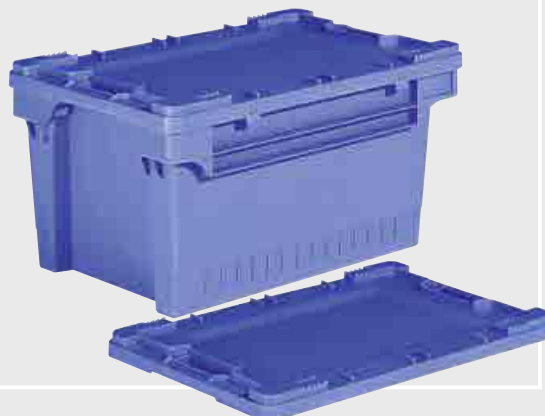
Item	Useable internal dim. top/bottom L x W x H (mm) when stacked	Volume (liters)	Order no.
			   
EFB 642	504/472 x 363/325 x 178	36.0	<b>25801</b> <b>25802</b> <b>25803</b> <b>25804</b>
EFB 643	504/472 x 363/325 x 278	54.0	<b>25831</b> <b>25832</b> <b>25833</b> <b>25834</b>
EFB 644	504/472 x 363/325 x 378	72.0	<b>25861</b> <b>25862</b> <b>25863</b> <b>25864</b>



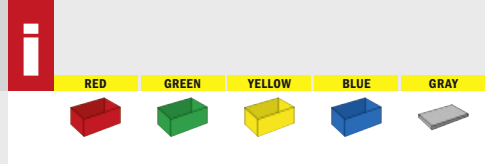
### Lid

With external open hand grip (no volume loss). Compatible with all types. Space saving stackable. Stacking lugs ensure stability of stacked boxes. Banding grooves for secure banding of stapled boxes.

Item	Order no.
	   
EFB-D	<b>25891</b> <b>25892</b> <b>25893</b> <b>25894</b>











## Fix-Box





**Fix-Box FB 600**

Polyethylene. Capable of carrying heavy loads, sturdy, with hand grips in the strong rims. Transport container for rail and road. Can be stacked when closed.

External dimensions: L 600 x W 400 x H 250 mm

Item	Internal dim. top/bottom L x W x H (mm)	Volume (liters)	Order no.
			   
<b>FB 600</b>	550/500 x 360/325 x 247	40.0	<b>8351 8352 8353 8354</b>





**Lid for Fix-Box FB 600**

Item	Finish	Order no.
		   
<b>FB-D 600</b>	with stacking corners	<b>8361 8362 8363 8364</b>

**Fix-Box FB 603**

Polypropylene, with open hand grips at the front ends, without lid.





External dimensions: L 597 x W 397 x H 300 mm

Item	Internal dim. top/bottom L x W x H (mm)	Volume (liters)	Order no.
			   
<b>FB 603</b>	565/530 x 364/334 x 297	57.0	<b>12481 12482 12483 12484</b>





**Fix-Box FB 604**

Polypropylene. This model is also compatible with Euro-pallet dimensions of 1,200 x 800 mm. Open hand grips on both front sides for easy handling. Can be stacked even with lid.

External dimensions: L 600 x W 400 x H 350 mm

Item	Internal dim. top/bottom L x W x H (mm)	Volume (liters)	Order no.
			   
<b>FB 604</b>	502/475 x 354/317 x 347	62.0	<b>8381 8382 8383 8384</b>

**Lid for Fix-Box FB 604**

Item	Finish	Order no.
		   
<b>FB-D 604</b>	with stacking corners	<b>15051 15052 15053 15054</b>

Order No. = on stock

Order No. = not on stock







## Fix-Box

### Fix-Box FB 530

Polypropylene. With shell hand grips. Suitable for Euro-pallets.

External dimensions: L 540 x W 320 x H 170 mm







Item	Internal dim. top/bottom L x W x H (mm)	Volume (liters)	Order no.
			   
FB 530	420/425 x 275/255 x 167	17.0	<b>12471</b> <b>12472</b> <b>12473</b> <b>12474</b>

### Fix-Box FB 601


Polypropylene. With shell hand grips at the front ends integrated into the stacking rim. Suitable for Euro-pallets.

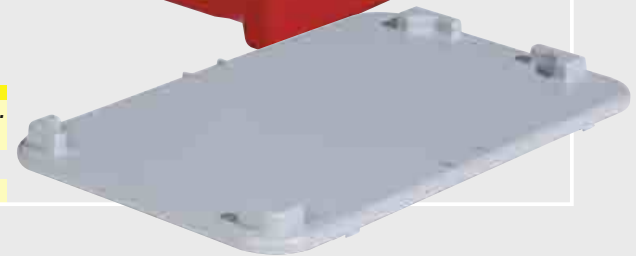
External dimensions, top: L 585 x W 375 x H 200 mm

Item	Internal dim. top/bottom L x W x H (mm)	Volume (liters)	Order no.
			   
FB 601	490/420 x 330/300 x 196	30.0	<b>8441</b> <b>8442</b> <b>8443</b> <b>8444</b>



### Lid for Fix-Box FB 601

Item	Finish	Order no.
		
FB-D 601	with stacking corners	<b>20905</b>



**i** Additional container versions and ranges  
on request



## Sheet steel boxes and containers

SSI SCHAEFER's sheet steel boxes and containers combine sturdiness, quality and economy. The extremely robust container systems are highly resistant to mechanical loads.

As a consequence, heavy goods such as solid materials, cast or forged parts can be transported, stored and picked safely and efficiently.

Whether for production preparation, the warehouse, shipping companies, order-picking or transport, sheet steel boxes and sheet steel containers can always fulfill the most demanding standards.







Sheet steel boxes and containers

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix

**i**

**BLUE-GRAY** **SHEET STEEL**

**PAINTED** **GALVANIZED\***


**Sheet steel**  
for high mechanical loads, painted blue-gray or immersion galvanized

**High stacking loads**

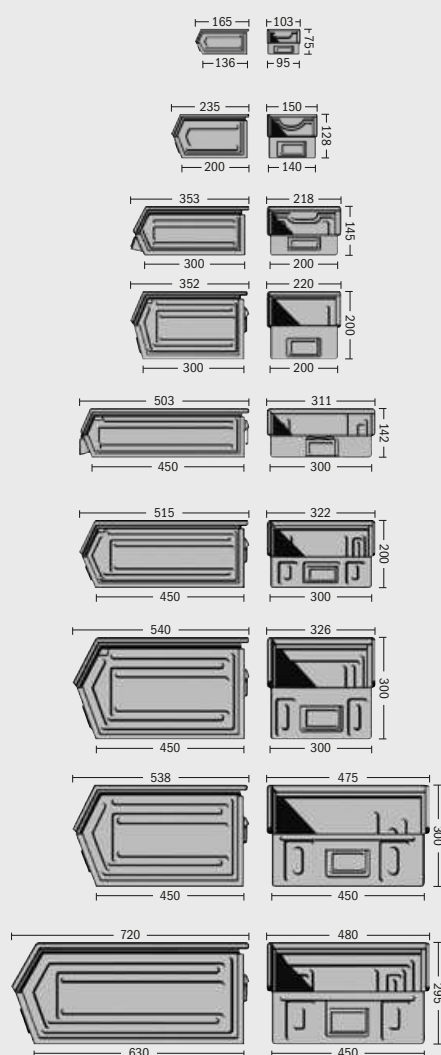
**Stackable**  
with LF series made of plastic, 14/6 range made of plastic and steel

**Very sturdy**  
due to the rolled stacking rim



\* Surface quality: galvanized acc. to DIN EN ISO 1461



## Semi-open front storage containers – 14/7 range made of sheet steel



**Sheet steel semi-open front storage containers – 14/7 range**

Item	Nominal dimensions L x W x H (mm)	Max. load (kg)		Volume (liters)	Order No.	
		Single	Stacked			
14/7-5 I	165/136 x 95 x 75	2.5	25	0.9	6930	—
14/7-5 v					—	6940
14/7-4 I	235/200 x 140 x 128	8	120	3.5	6890	—
14/7-4 v					—	6900
14/7-3 Z I	353/300 x 200 x 145	60	600	8.0	6850	—
14/7-3 Z v					—	6860
14/7-3 I	352/300 x 200 x 200	60	1,000	11.5	6810	—
14/7-3 v					—	6820
14/7-2 H I	503/450 x 300 x 142	80	600	17.0	6770	—
14/7-2 H v					—	6780
14/7-2 I	515/450 x 300 x 200	120	1,200	26.0	6720	—
14/7-2 v					—	6730
14/7-2 Z I	540/450 x 300 x 300	150	1,500	41.0	6690	—
14/7-2 Z v					—	6700
14/7-1 Z I	538/450 x 450 x 300	150	1,500	60.0	6670	—
14/7-1 Z v					—	6680
14/7-1 I	720/630 x 450 x 295	180	2,500	83.0	6650	—
14/7-1 v					—	6660

Order No. = on stock

Order No. = not on stock

Accessories for 14/7 range  
made of sheet steel

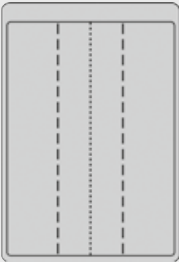
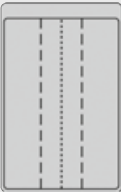


For 14/7-1

For 14/7-3 Z  
and 14/7-3



For 14/7-2



**Dividers**

Galvanized sheet steel for lengthwise partitioning of the containers.

Item	for containers	PU	Order No.
ZW-3-B	14/7-3	1 divider and 1 pair of slotted strips	7050
ZW-2-B	14/7-2	1 divider and 1 pair of slotted strips	7040
ZW-1-B	14/7-1	1 divider and 1 pair of slotted strips	7030

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix





PAINTED

GALVANIZED\*



# Stackable transportation containers – 14/6 range made of sheet steel



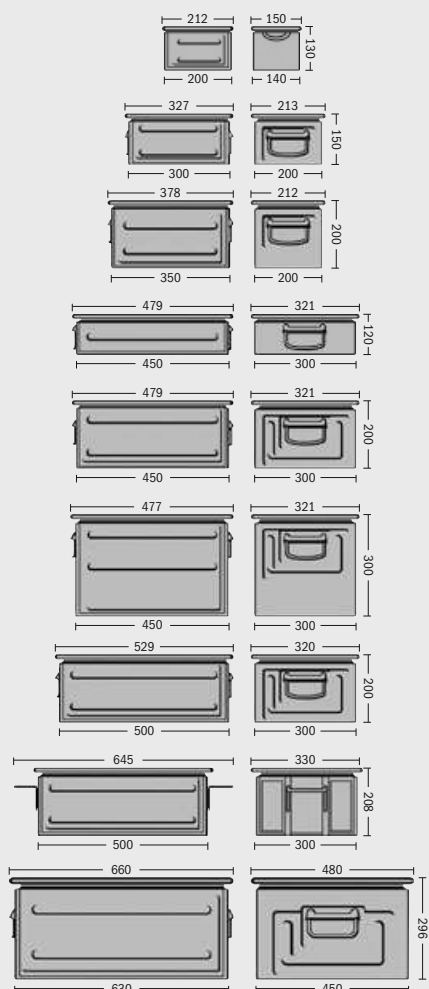
- **Sheet steel**  
for high mechanical loads, painted blue-gray or immersion galvanized
- **High stacking loads**
- **Stackable**  
with LF series made of plastic, 14/7 range made of steel, 14/6 range made of plastic
- **Very sturdy**  
due to the rolled stacking rim

\* Surface quality: galvanized acc. to DIN EN ISO 1461



## Sheet steel stackable transport containers – 14/6 range

Item	Nominal dimensions L x W x H (mm)	Max. load (kg)		Volume (liters)	Order No.	
		Single	Stacked			
<b>14/6-4 I</b>	200 x 140 x 130	8	120	3.2	<b>8130</b>	–
<b>14/6-4 v</b>					–	<b>8140</b>
<b>14/6-3 I</b>	300 x 200 x 150	60	1,000	8.0	<b>8100</b>	–
<b>14/6-3 v</b>					–	<b>8110</b>
<b>14/6-B I</b>	350 x 200 x 200	80	1,000	12.8	<b>8180</b>	–
<b>14/6-B v</b>					–	<b>8190</b>
<b>14/6-2 H I</b>	450 x 300 x 120	100	1,000	14.2	<b>16520</b>	–
<b>14/6-2 H v</b>					–	<b>16540</b>
<b>14/6-2 I</b>	450 x 300 x 200	120	1,200	24.9	<b>8070</b>	–
<b>14/6-2 v</b>					–	<b>8080</b>
<b>14/6-2 Z I</b>	450 x 300 x 300	150	1,200	38.4	<b>15880</b>	–
<b>14/6-2 Z v</b>					–	<b>15890</b>
<b>14/6-A I</b>	500 x 300 x 200	120	1,200	27.7	<b>8160</b>	–
<b>14/6-A v</b>					–	<b>8170</b>
<b>10/6-b I</b>	500 x 300 x 208	200	1,500	27.4	<b>8270</b>	–
<b>10/6-b v</b>					–	<b>8280</b>
	for heavy loads, fixed handle and drag rails					
<b>14/6-1 I</b>	630 x 450 x 296	250	2,500	79.0	<b>8050</b>	–
<b>14/6-1 v</b>					–	<b>8060</b>



Order No. = on stock

Order No. = not on stock

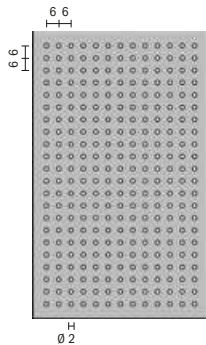
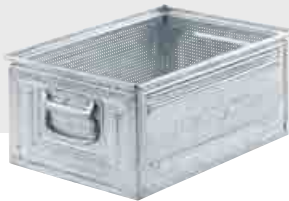
Special perforated versions 14/6 series  
and accessories made of sheet steel

Special perforated versions 14/6 series

With ergonomically shaped flip handles on short sides for comfortable handling despite heavy contents. Highly suitable for safe working during transportation, ongoing warehouse operation, or even outside.

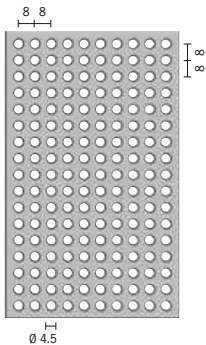
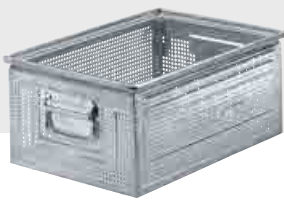
Sheet steel, galvanized. Optimal for the washing process and suitable for all shelving systems. Thanks to a robust stacking rim and base, the containers ensure a high level of stability when stacked.

Hole patterns 111



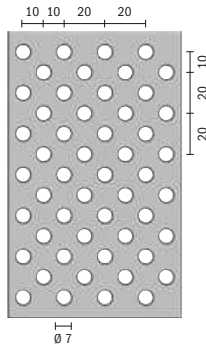
Ao = 8.7 %

Hole patterns 112 B



Ao = 24.8 %

Hole patterns 113 B



Ao = 19 %

For technical data please refer to the table on page A58.

Item	Order no.	Item	Order no.	Item	Order no.
14/6-2 v with hole patterns 111	8800004	14/6-2 v with hole patterns 112 B	8802014	14/6-2 v with hole patterns 113 B	8800014

Dust lids with finger hole

Galvanized sheet steel. Recommended for intra-company transport of dust-sensitive articles.

PU: 10 items

\* Surface quality: galvanized acc. to DIN EN ISO 1461



Item	for containers	Order No.
SD-14/6-1 v	14/6-1	9320
SD-14/6-A v	14/6-A	9338

# Sheet steel shelf containers

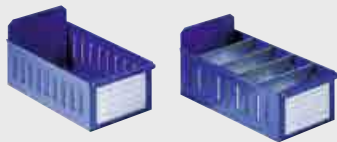
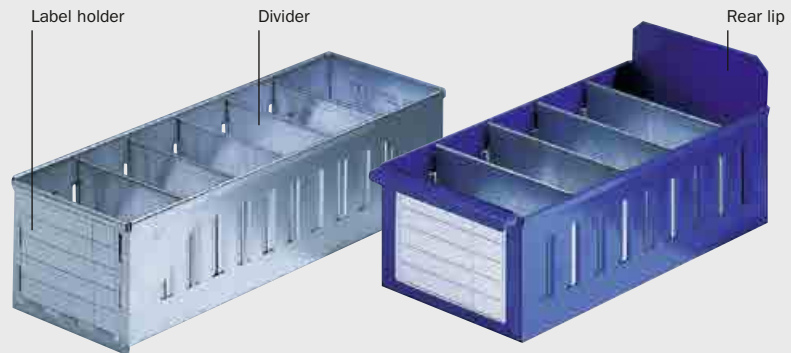
- Designed for SSI SCHAEFER modular shelvings
- Extensive range of order accessories  
labeling and partition options (advantageous for both large and small warehouses)

\* Surface quality: galvanized acc.  
to DIN EN ISO 1461



Plastic shelf containers

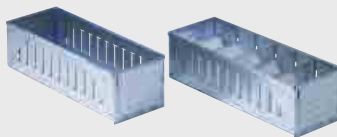
from page A10



## RK 301 Steel, painted blue

can be divided into max. 10 compartments, 6 containers per shelf.

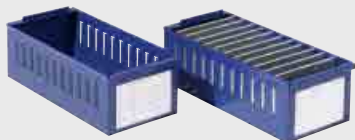
Item	Description (W x D x H mm)	PU	Order No.
RK 301	Shelf container (162 x 317 x 100/137)	1 pc.	11550
RKE 386	Labels for short side	100 pcs.	11190
RKF 386	Protective film	100 pcs.	11920
RKT 335/301	Divider, galvanized	1 pc.	11150



## RK 2386 Steel, galvanized

can be divided into max. 12 compartments, 7 containers per shelf.

RK 2386	Shelf container (136 x 393 x 100/107)	1 pc.	18240
RKE 2386	Labels for short side	100 pcs.	11560
RKF 2386	Protective film	100 pcs.	11570
RKT 2386	Divider, galvanized	1 pc.	18250



## RK 4386 Steel, painted blue

can be divided into max. 12 compartments, 6 containers per shelf.

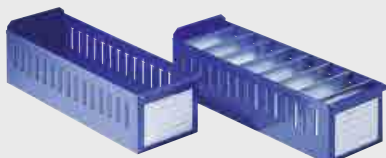
RK 4386	Shelf container (162 x 398 x 120/137)	1 pc.	18000
RKE 386	Labels for short side	100 pcs.	11190
RKF 386	Protective film	100 pcs.	11920
RKT 386/512/4386	Divider, galvanized	1 pc.	11180



## RK 386 Steel, painted blue

can be divided into max. 12 compartments, 6 containers per shelf.

RK 386	Shelf container (162 x 404 x 120/137)	1 pc.	11170
RKE 386	Labels for short side	100 pcs.	11190
RKF 386	Protective film	100 pcs.	11920
RKT 386/512/4386	Divider, galvanized	1 pc.	11180



## RK 512 Steel, painted blue

can be divided into max. 16 compartments, 6 containers per shelf.

RK 512	Shelf container (162 x 504 x 120/137)	1 pc.	16210
RKE 386	Labels for short side	100 pcs.	11190
RKF 386	Protective film	100 pcs.	11920
RKT 386/512/4386	Divider, galvanized	1 pc.	11180



Order No. = on stock





### ► Sheet steel

for storage and transport of heavy goods,  
e.g. solid materials, cast and forged parts

### ► High load capacity

due to right-angled profile and strongly compressed walls

### ► Strong base

### ► Safe stacking

as a result of reinforced feet and solid support  
and stacking corners

\* Surface quality: galvanized acc. to DIN EN ISO 1461



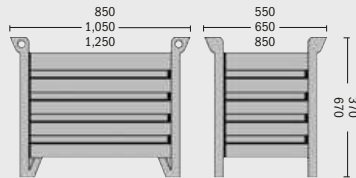
# Transport and stackable containers

## E transport and stacking containers

Transport and stacking containers with solid walls or with flap. Strongly compressed walls with a right-angled profile guarantee high capacity with low empty weight. Extra reinforced feet together with solid catch and stacking corners ensure reliable stacking.

Base version: painted or galvanized,  
with base ribbing

Ground clearance: 105 mm



Item	Nominal dimensions L x W x H (mm)	External dimensions L x W x H (mm)	Width of fork opening L x W (mm)	Load (kg)	Stacking factor	Order No.	Item	Order No.
<b>1286 K-I*</b>	1,200 x 800 x 605	1,250 x 850 x 670	1,000 x 700	1,500	1 + 4	<b>8590</b>	<b>1286 K-v*</b>	<b>8600</b>
<b>1286-I**</b>	1,200 x 800 x 605	1,250 x 850 x 670	1,000 x 700	1,500	1 + 5	<b>8610</b>	<b>1286-v**</b>	<b>8620</b>
<b>866 K-I*</b>	800 x 600 x 605	850 x 650 x 670	600 x 510	800	1 + 4	<b>8630</b>	<b>866 K-v*</b>	<b>8640</b>
<b>866-I**</b>	800 x 600 x 605	850 x 650 x 670	600 x 510	800	1 + 5	<b>8650</b>	<b>866-v**</b>	<b>8660</b>
<b>186 K-I*</b>	1,000 x 800 x 605	1,050 x 850 x 670	800 x 700	1,500	1 + 5	<b>8470</b>	<b>186 K-v*</b>	<b>8480</b>
<b>186-I**</b>	1,000 x 800 x 605	1,050 x 850 x 670	800 x 700	1,500	1 + 5	<b>8490</b>	<b>186-v**</b>	<b>8500</b>
<b>856 K-I*</b>	800 x 500 x 605	850 x 550 x 670	600 x 410	800	1 + 4	<b>8510</b>	<b>856 K-v*</b>	<b>8520</b>
<b>856-I**</b>	800 x 500 x 605	850 x 550 x 670	600 x 410	800	1 + 5	<b>8530</b>	<b>856-v**</b>	<b>8540</b>
<b>853-I**</b>	800 x 500 x 305	850 x 550 x 370	600 x 410	500	1 + 9	<b>8550</b>	<b>853-v**</b>	<b>8560</b>

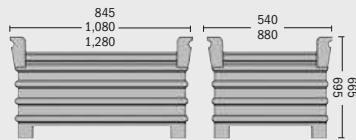
\* With flap, \*\* Solid walls

## S transport and stacking containers

Transport and stacking containers for all heavy goods, solid material, cast and forged parts. The side walls have a tube-shaped profile at the top and reinforcing beads. In addition, the containers also feature continuous ribbing around the sides, a strong base, sturdy feet and especially strong stacking corners with crane lugs.

Ground clearance: 100 mm\*

Ground clearance: 105 mm\*\*

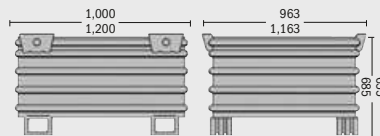


Item	Nominal dimensions L x W x H (mm)	External dimensions L x W x H (mm)	Width of fork opening L x W (mm)	Load (kg)	Stacking factor	Order No.	Item	Order No.
<b>S 1286-I**</b>	1,200 x 800 x 605	1,280 x 880 x 695	1,000 x 600	2,000	1 + 5	<b>8670</b>	<b>S 1286-v</b>	<b>8680</b>
<b>S 1086-I**</b>	1,000 x 800 x 605	1,080 x 880 x 695	800 x 600	2,000	1 + 5	<b>8690</b>	<b>S 1086-v</b>	<b>8700</b>
<b>S 856-I*</b>	800 x 500 x 605	845 x 540 x 665	660 x 330	1,000	1 + 3	<b>8710</b>	<b>S 856-v</b>	<b>8720</b>

## SG transport and stacking containers

Robust and sturdy containers with fork pockets and extra-wide stacking corners.

Ground clearance: 150 mm (SG 1216-I+v  
and SG 1286-I+v), 120 mm (SG 1086-I+v).



Item	Nominal dimensions L x W x H (mm)	External dimensions L x W x H (mm)	Width of fork opening L x W (mm)	Load (kg)	Stacking factor	Order No.	Item	Order No.
<b>SG 1216-I</b>	1,200 x 1,000 x 650	1,200 x 1,163 x 685	600 x 680	2,000	1 + 4	<b>8730</b>	<b>SG 1216-v</b>	<b>8740</b>
<b>SG 1286-I</b>	1,200 x 800 x 650	1,200 x 963 x 685	600 x 480	2,000	1 + 4	<b>8750</b>	<b>SG 1286-v</b>	<b>8760</b>
<b>SG 1086-I</b>	1,000 x 800 x 620	1,000 x 963 x 655	600 x 600	2,000	1 + 4	<b>8770</b>	<b>SG 1086-v</b>	<b>8780</b>



PAINTED

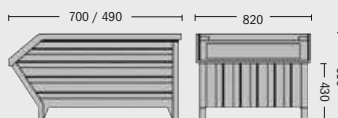


GALVANIZED\*

\* Surface quality: galvanized  
acc. to DIN EN ISO 1461



# Lager-Fix containers, post pallets and flat steel pallets



## Lager-Fix container

These containers utilize the principles and design of the proven Lager-Fix semi-open front storage container. The large viewing and access opening is especially advantageous and remains accessible even when the container is stacked. That is why this container is also utilized for the staging of the material on the production line.

The stacking rim runs around three sides and enables safe stacking of up to 4 units on top of each other. Mixed stacks of different sizes are possible. The right-angled profile and the strongly compressed walls guarantee high load capacity.

Ground clearance 105 mm.  
Height of hopper front 430 mm.

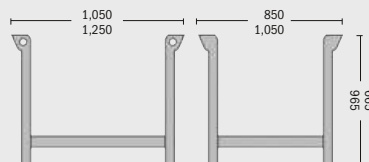
Item	Nominal dimensions L x W x H (mm)	External dimensions L x W x H (mm)	Width of fork opening L x W (mm)	Load (kg)	Stacking factor	Order No.	Item	Order No.
14/7-0a-I	700/490 x 800 x 610	710 x 820 x 610	290 x 720	800	1 + 3	8790	14/7-0a-v	8800

## Post pallets

Clear storage and easy transportation of production and assembly parts with large dimensions that exceed the limited container volume. Stand made of square tube 50 x 50 x 3 mm with welded stacking corners.

Ground clearance 100 mm.

Base reinforced with strong ribbing.



Item	Nominal dimensions L x W x H (mm)	External dimensions L x W x H (mm)	Width of fork opening L x W (mm)	Load (kg)	Stacking factor	Order No.	Item	Order No.
R 1086-I	1,000 x 800 x 600	1,050 x 850 x 665	900 x 700	1,000	1 + 3	9180	R 1086-v	9190
R 1286-I	1,200 x 800 x 600	1,250 x 850 x 665	1,100 x 700	1,000	1 + 3	9200	R 1286-v	9210
R 1216-I	1,200 x 1,000 x 600	1,250 x 1,050 x 665	1,100 x 900	1,000	1 + 3	9220	R 1216-v	9230
R 1089-I	1,000 x 800 x 900	1,050 x 850 x 965	900 x 700	1,000	1 + 2	9240	R 1089-v	9250
R 1289-I	1,200 x 800 x 900	1,250 x 850 x 965	1,100 x 700	1,000	1 + 2	9260	R 1289-v	9270
R 1219-I	1,200 x 1,000 x 900	1,250 x 1,050 x 965	1,100 x 900	1,000	1 + 2	9280	R 1219-v	9290

## Flat steel pallets

4-way entry pallet made with a strong base ripping with 2 or 3 sheet steel skids securely supported by the container profiles.

Alternating stacks due to the flat skids.



Item	Nominal dimensions L x W x H (mm)	Load (kg)	Number of skids	Order No.	Item	Order No.
SP 1282 F-I	1,200 x 800 x 132	1,500	2	9060	SP 1282 F-v	9070
SP 1283 F-I	1,200 x 800 x 132	2,500	3	9080	SP 1283 F-v	9090

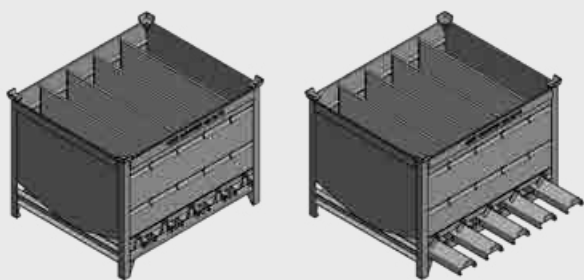
Order No. = on stock

Order No. = not on stock

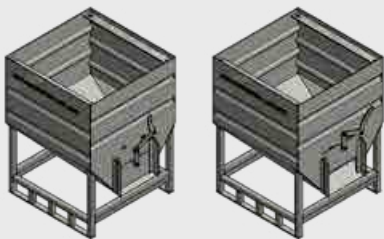
# Special steel solutions

We can also meet individual customer requirements with our special steel solutions. We would be happy to work with you to develop the perfect solution – completely tailored to your exact needs. From the initial draft by our designers to

the prototypes made by our specialists and right through to series production in our modern factory, we are your expert partner.



Stacking container with bottom slider



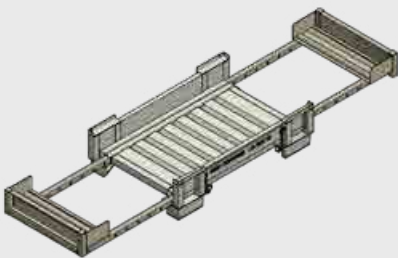
Funnel container with slider



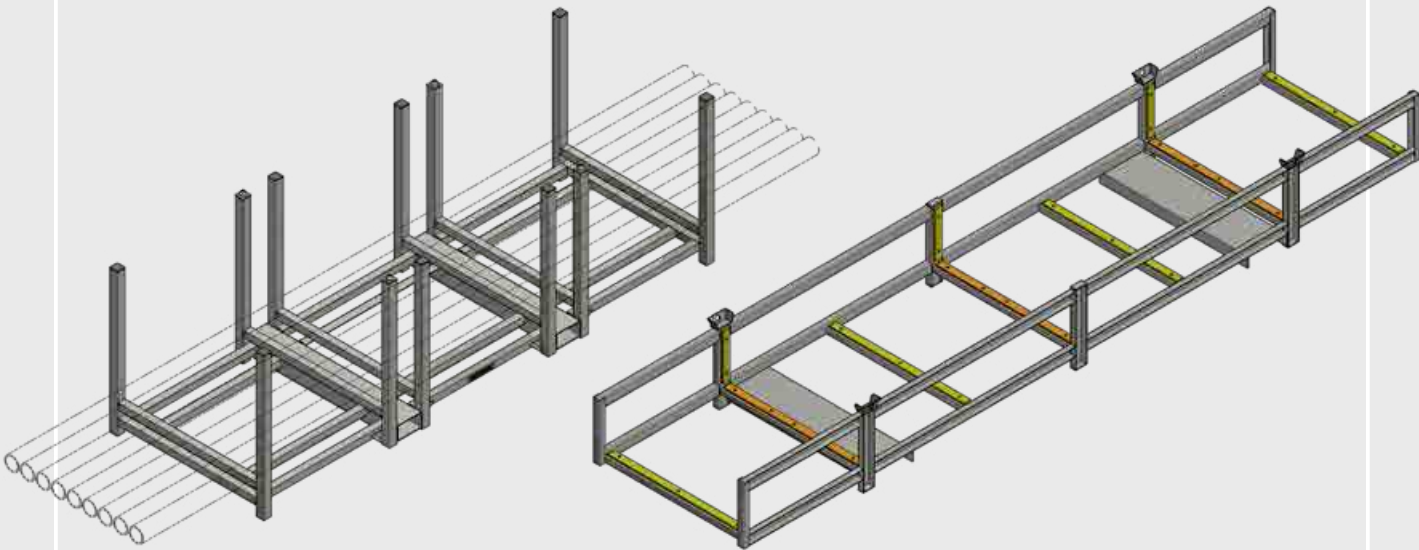
Rack for coils



Container with extendable side walls



Long material rack



Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix



# Modular shelving systems for every application



Saving space and time are very often the results of effective storage. Whether single or multi-tier facilities, SSI SCHAEFER offers sophisticated, flexible modular shelving systems that guarantee the highest quality solutions for a variety of applications.

Smooth and quick installation as well as comprehensive specialist consultation are the basis for an excellent cost-performance ratio. The proof: thousands of warehouses all over the world equipped by SSI SCHAEFER.

With the appropriate configuration, the R 3000 and R 7000 shelf systems can be expanded into multi-tier platform systems provided that this option is included in the initial order for ground-level racks.

Joint planning on site with your expert consultant from SSI SCHAEFER is the key to selecting the right system.



## The meaning of the pictograms:



Bay load\*



Base load\*



Drawer load\*



Rod load\*



Beam load\*

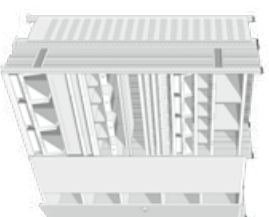
\* All specified load values apply for uniformly distributed loads.



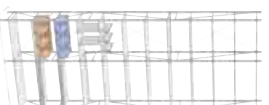
Information regarding **inspection requirements**  
for rack systems

Chapter J, page J1

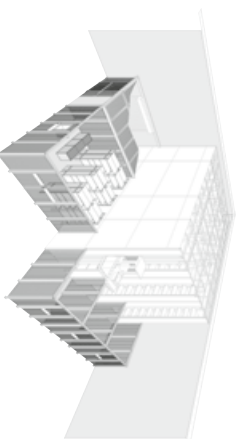




**R 3000 modular shelving** page **B4**



**R 7000 modular shelving** page **B30**



**Comprehensive accessories** page **B40**

# Overview of modular shelving systems

	<b>R 3000 modular shelving</b>
Areas of use	Light to heavy, small and mid-volume goods, bulky goods, platforms
Advantages	<ul style="list-style-type: none"> <li>▶ Completely organized thanks to extensive accessories</li> <li>▶ European dimension modularity</li> <li>▶ Multi-tier installation and platforms can also be retrofitted</li> <li>▶ GS mark of conformity</li> </ul>
System	▶ Frame system with plug-in design for rapid assembly
Design	▶ Frame system, 2 bay lengths, 5 shelf depths, different heights
Load-bearing capacity	▶ Up to max. 3,500 kg per rack bay
System layout	▶ 53 mm adjustment steps
Upright surface	▶ Galvanized
Shelf surface	▶ Galvanized/powder-coated light silver



from pages

**B4**



## R 7000 modular shelving

Light to heavy, small and mid-volume goods, platforms, high bay storage

- ▶ Diverse equipment thanks to extensive accessories
  - ▶ European dimension modularity
  - ▶ Multi-tier installation and platforms possible
- 
- ▶ GS mark of conformity
- 
- ▶ Pre-assembled frame system for rapid assembly
- 
- ▶ Frame system, 4 bay lengths, 4 shelf depths, various frame heights, frame profiles
- 
- ▶ Up to max. 6,000 kg per rack bay
- 
- ▶ 53 mm adjustment steps
- 
- ▶ Galvanized
- 
- ▶ Galvanized/powder-coated light silver



**B30**







# R 3000 – the multi-functional shelving system

R 3000 is a multi-functional shelving system for small and medium parts storage. The upright frame design and the variable bolt-free system without fixed base and top shelves or longitudinal beams offer a completely flexible design of the shelving bays in 53 mm adjustment steps.

R 3000 eliminates the classical separation of shelves, longspan racking and cantilever racking. This means

one system serves for everything with subsequent expansion options and complete flexibility should your storage needs change.

The fully closed upright profile is designed for attachment of longitudinal beams and cross braces. Pressed-out lugs on the wider side of the upright allow for attachment of shelves. Cut-outs on both sides of the uprights serve for fixing mezzanine supports.

Variable compartment sizes are created by freely positionable shelves and longitudinal beams available for bay widths 994 and 1,282 mm.

Standardized components allow for multi-tier systems that make optimal use of the available ceiling height. Due to its high load-bearing capacity, the R 3000 shelving system is the ideal solution for multi-tier systems with intermediate platforms.

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

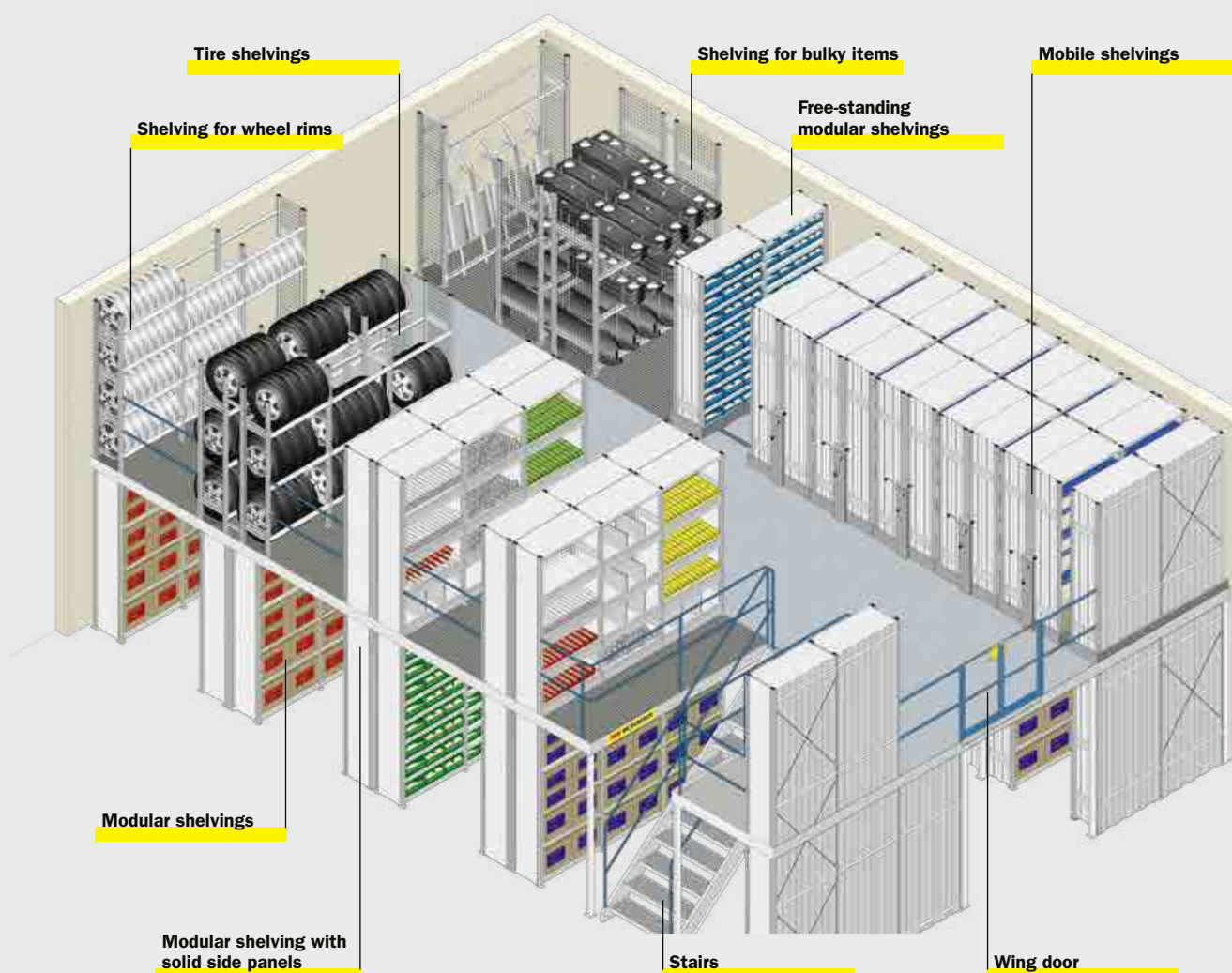


# Multi-tier shelving systems

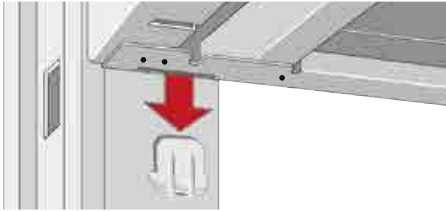


The upright frames are available in different heights for installation of ground level or multi-tier shelving. The frames are pre-assembled on site, stood up and fitted with shelves or beams and cross-braces for stiffening purposes.

The standard platform height is 2,310 mm. This provides enough head room even after installation of sprinkler, air conditioning and lighting installations, etc. The platform height can be adjusted in 53 mm steps.

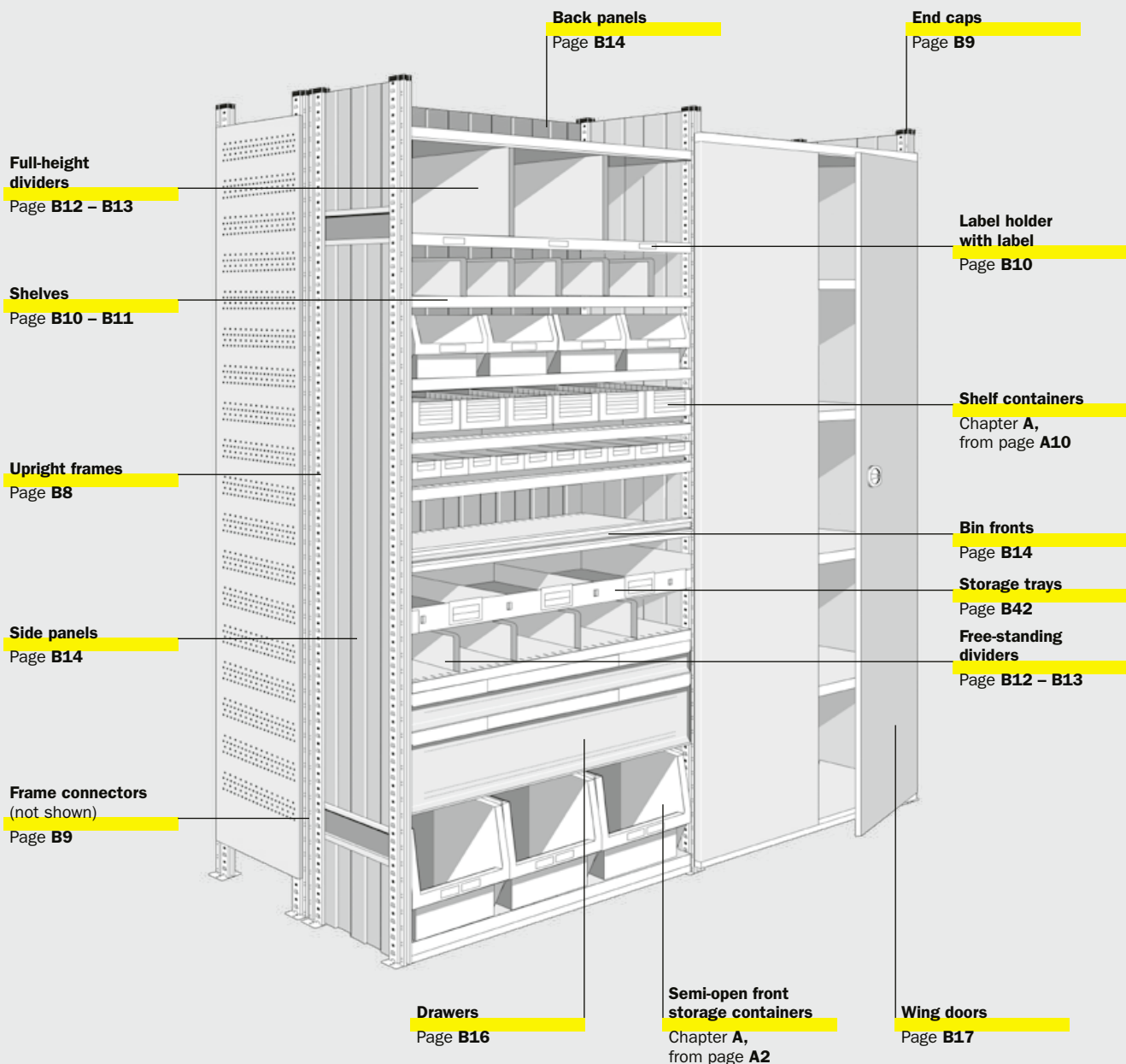


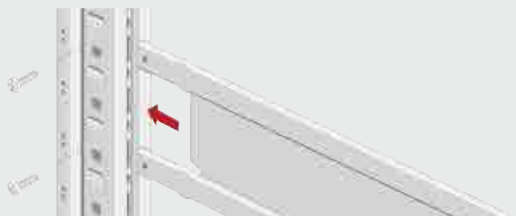
- ▶ **Plug-in design for smooth assembly**  
bay widths 994 and 1,282 mm  
shelf depths 300, 400, 500, 600, 800 mm  
various heights for single and multi-tier installation
- ▶ **Upright profiles**  
with 53 mm lug pitch
- ▶ **Frames with slotted uprights**  
with slot spacing of 26.5 mm available on request
- ▶ **Fully organized**  
thanks to an extensive range of accessories including shelves, beams, shelf dividers, side and back panels, drawers and doors and many more
- ▶ **High loading capacity to 3,500 kg per bay**
- ▶ **Multi-tier installations**  
can also be retrofitted



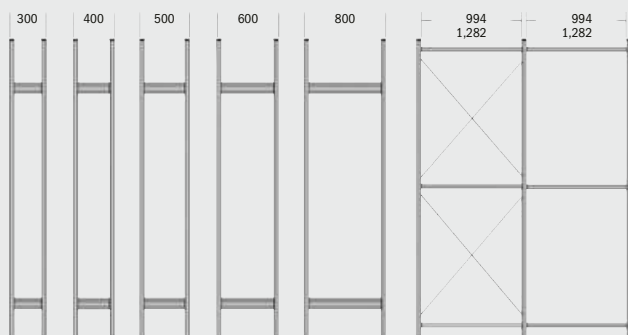
The front edge of the SSI SCHAEFER shelf overlaps the longitudinal edge. In conjunction with the additional welding points, this enhances security and the load-bearing capacity of the shelf.

## The equipment options






## Upright frame system




### Upright frames for single-tier installation

The loads indicated are approximate values that depend on a variety of parameters.

Item	Shelf depth (mm)	Bay load (kg) for height (mm)		Type	Order no.
		2 x 901	1 x 1,325		


#### Height 2,278 mm

RR 33322-V-M	300	1,900	1,500	Galvanized	<b>6671815</b>
RR 34322-V-M	400	1,900	1,500	Galvanized	<b>6671816</b>
RR 35322-V-M	500	1,900	1,500	Galvanized	<b>6671817</b>
RR 36322-V-M	600	1,900	1,500	Galvanized	<b>6671818</b>
RR 38322-V-M	800	1,900	1,500	Galvanized	<b>6671819</b>

Item	Shelf depth (mm)	Bay load (kg) for height (mm)		Type	Order no.
		2 x 901	1 x 1,325		

#### Height 2,490 mm

RR 33325-V-M	300	1,800	1,250	Galvanized	<b>6671820</b>
RR 34325-V-M	400	1,800	1,250	Galvanized	<b>6671821</b>
RR 35325-V-M	500	1,800	1,250	Galvanized	<b>6671822</b>
RR 36325-V-M	600	1,800	1,250	Galvanized	<b>6671823</b>
RR 38325-V-M	800	1,800	1,250	Galvanized	<b>6671824</b>

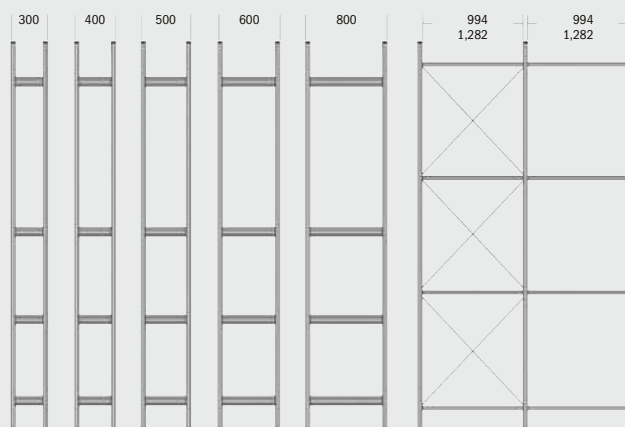
Item	Shelf depth (mm)	Bay load (kg) for height (mm)		Type	Order no.
		3 x 901	2 x 1,325		

#### Height 2,967 mm

RR 33330-V-M	300	-	1,500	Galvanized	<b>6671825</b>
RR 33330-V-M	400	-	1,500	Galvanized	<b>6671826</b>
RR 35330-V-M	500	-	1,500	Galvanized	<b>6671827</b>
RR 36330-V-M	600	-	1,500	Galvanized	<b>6671828</b>
RR 38330-V-M	800	-	1,500	Galvanized	<b>6671829</b>


### Heights 6,836 and 9,115 mm

on request




### Upright frames for multi-tier installation

The loads indicated are approximate values that depend on a variety of parameters.

Item	Shelf depth (mm)	Bay load (kg)	Type	Order no.
				


#### Height 2,278 mm

RR 33522-V-M	300	3,500	Galvanized	<b>6671830</b>
RR 34522-V-M	400	3,500	Galvanized	<b>6671831</b>
RR 35522-V-M	500	3,500	Galvanized	<b>6671832</b>
RR 36522-V-M	600	3,500	Galvanized	<b>6671833</b>
RR 38522-V-M	800	3,500	Galvanized	<b>6671834</b>

Item	Shelf depth (mm)	Bay load (kg)	Type	Order no.
				


#### Height 2,490 mm

RR 33525-V-M	300	3,500	Galvanized	<b>6671835</b>
RR 34525-V-M	400	3,500	Galvanized	<b>6671836</b>
RR 35525-V-M	500	3,500	Galvanized	<b>6671837</b>
RR 36525-V-M	600	3,500	Galvanized	<b>6671838</b>
RR 38525-V-M	800	3,500	Galvanized	<b>6671839</b>

Item	Shelf depth (mm)	Bay load (kg)	Type	Order no.
				

#### Height 2,967 mm

RR 33530-V-M	300	3,500	Galvanized	<b>6671840</b>
RR 34530-V-M	400	3,500	Galvanized	<b>6671841</b>
RR 35530-V-M	500	3,500	Galvanized	<b>6671842</b>
RR 36530-V-M	600	3,500	Galvanized	<b>6671843</b>
RR 38530-V-M	800	3,500	Galvanized	<b>6671844</b>

Item	Shelf depth (mm)	Bay load (kg)	Type	Order no.
				

#### Height 4,557 mm

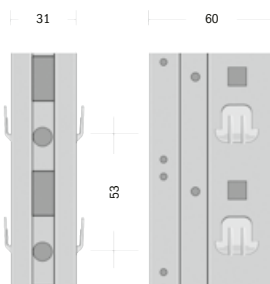
RR 33545-V-U	300	3,500	Galvanized	<b>6671891</b>
RR 34545-V-U	400	3,500	Galvanized	<b>6671892</b>
RR 35545-V-U	500	3,500	Galvanized	<b>6671893</b>
RR 36545-V-U	600	3,500	Galvanized	<b>6671894</b>
RR 38545-V-U	800	3,500	Galvanized	<b>6671895</b>

Order no. = on stock





Dimensions in mm



### ► Lug pitch

The continuous lug pattern of the R 3000 upright profile allows for the flexible configuration of the shelving bays with the extensive range of accessories. The compartment heights can be freely adjusted in 53 mm steps by fitting the shelves on the upright lugs.

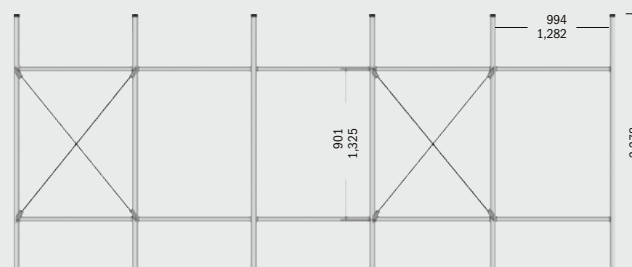
## Shelving components and accessories

### Cross braces

A cross brace must be fitted onto the back of the first and every other third rack bay to stabilize the racks.

**Note:** Shelves must be installed near the cross-brace connecting points.

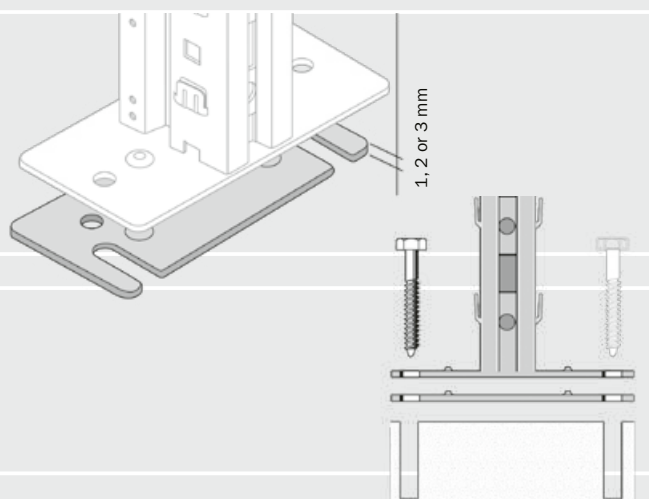
Item	Bay width (mm)	Height (mm)	Order no.
KV 31009	994	901	6670673
KV 31013		1,325	146000
KV 31309	1,282	901	6670674
KV 31313		1,325	146010



### Shim plates

Sheet steel, galvanized. To compensate for slightly uneven ground surfaces.

Item	Thickness (mm)	Order no.
UP3001-V	1	6671710
UP3002-V	2	6671711
UP3003-V	3	6671712



### Floor fixing

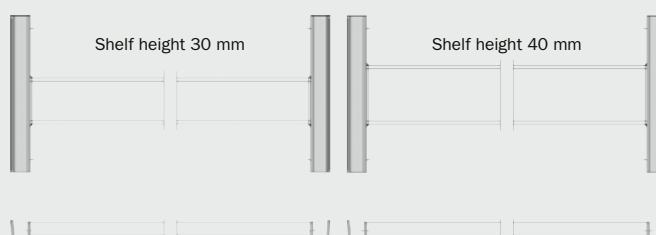
Screw anchor for anchoring the racks to the floor.

Item	Order no.
HUS3-H6x60	6671728

### Horizontal braces

Sheet steel, powder-coated light silver. Used for stiffening shelving rows longitudinally when cross-braces cannot be used because single-sided shelving must be accessible from both sides respectively when long parts must be pushed through in a double-sided bay. The frame distance must be at least 30 mm in order to guarantee that the braces can be subsequently adjusted in height. 2 horizontal braces are fitted onto the upper and lower shelf of each rack bay of a rack row (for shelf heights up to 2,967 mm). The interlocking connection with the upright guarantees high rigidity. **Bay load-bearing capacity on request!**

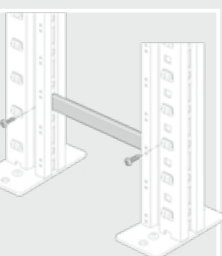
Item	Bay width (mm)	Shelf height (mm)	Order no.
LV 3103	994	30	145060
LV 3133	1,282	30	145070
LV 3104	994	40	145080
LV 3134	1,282	40	145090



### Frame connector

Sheet steel, galvanized. For connecting 2 shelving bays back-to-back in a row. Frame spacing at least 6 mm. Incl. fixing kit.

Item	Frame distance (mm)	Order no.
RV 3006	6	147080
RV 3030	30	147090
RV 3050	50	147100
RV 3100	100	147110
RV 3300	300	147120



### End cap

High-quality black plastic. Attached to the uprights as an end piece.

Item	Order no.
AK 3000	147130



Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

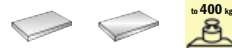
Mezzanines / platforms

On-line shelving / KDR shelving

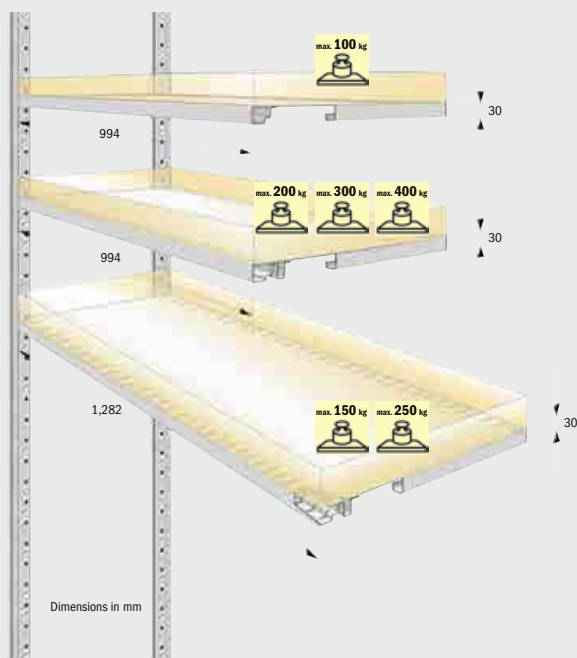
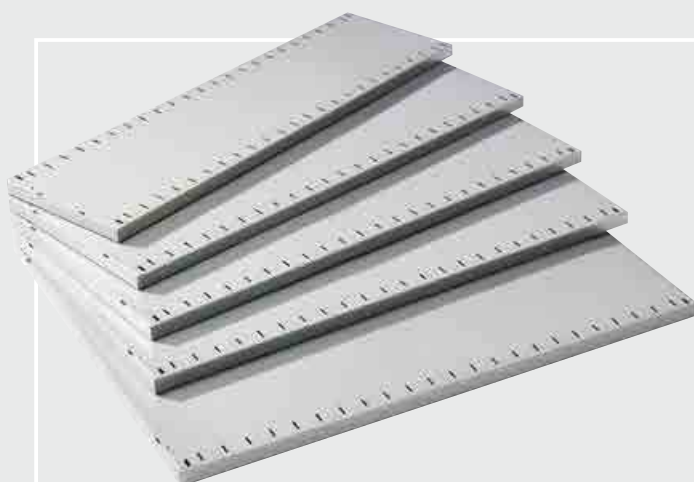
Semi-automated solutions

Logistics systems

Appendix



# Shelves



## Shelves

Sheet steel, powder-coated light silver or galvanized, 30 or 40 mm high. Used to subdivide a bay into individual compartments with variable heights. Designed with two slot rows at the front and the back side for fitting vertical dividers. Slot spacing 41 mm. Offset arrangements of different compartment heights in a double-sided bay and row are possible

### Shelves for bay width 994 mm, height 30 mm

Sheet steel, powder-coated light silver or galvanized.

Item	Shelf depth (mm)	Load capacity max. (kg)	Edge design	Surface	Order no.
ZB 4313 V	300	100	N	Galvanized	27002
ZB 4313 L		100	N	Powder-coated	27000
ZB 4413 V	400	100	N	Galvanized	27012
ZB 4413 L		100	N	Powder-coated	27010
ZB 4423 V		200	V	Galvanized	27022
ZB 4423 L		200	V	Powder-coated	27020
ZB 4513 V	500	100	N	Galvanized	27032
ZB 4513 L		100	N	Powder-coated	27030
ZB 4523 V		200	V	Galvanized	27042
ZB 4523 L		200	V	Powder-coated	27040
ZB 4533 V		300	V	Galvanized	27052
ZB 4533 L		300	V	Powder-coated	27050
ZB 4543 V		400	V	Galvanized	27062
ZB 4543 L		400	V	Powder-coated	27060
ZB 4613 V	600	100	N	Galvanized	27072
ZB 4613 L		100	N	Powder-coated	27070
ZB 4623 V		200	V	Galvanized	27082
ZB 4623 L		200	V	Powder-coated	27080
ZB 4633 V		300	V	Galvanized	27092
ZB 4633 L		300	V	Powder-coated	27090
ZB 4643 V		400	V	Galvanized	27102
ZB 4643 L		400	V	Powder-coated	27100
ZB 4823 V	800	200	V	Galvanized	27172
ZB 4823 L		200	V	Powder-coated	27170
ZB 4843 V		400	V	Galvanized	27192
ZB 4843 L		400	V	Powder-coated	27190

### Shelves for bay width 1,282 mm, height 30 mm

Sheet steel, powder-coated light silver or galvanized.

ZB 9415 V	400	150	V	Galvanized	38102
ZB 9415 L		150	V	Powder-coated	38100
ZB 9515 V	500	150	V	Galvanized	38112
ZB 9515 L		150	V	Powder-coated	38110
ZB 9525 V		250	V	Galvanized	38122
ZB 9525 L		250	V	Powder-coated	38120
ZB 9615 V	600	150	V	Galvanized	38132
ZB 9615 L		150	V	Powder-coated	38130
ZB 9625 V		250	V	Galvanized	38142
ZB 9625 L		250	V	Powder-coated	38140
ZB 9825 V	800	250	V	Galvanized	38282
ZB 9825 L		250	V	Powder-coated	38280

## Label holder

Self-adhesive, for labeling storage locations.

Item	Length (mm)	PU	Order no.
EH 4085	85	50	27800
EH 4135	135	50	27810
EH 4490	490	50	27820
EH 4980	980	25	26360
EH 9125	1,250	25	26370

## Labels

Item	Length (mm)	PU	Order no.
EHE 4085	85	100	28050
EHE 4135	135	100	28060
EHE 4490	490	100	28070

Order no. = on stock

## Shelves

Underside  
Shelf  
V-design

Underside  
Shelf  
N-design

## Shelves for bay width 994 mm, height 40 mm

Sheet steel, powder-coated light silver or galvanized.

Item	Shelf depth (mm)	Load capacity max. (kg)	Edge design	Surface	Order no.
ZB 331010 V	300	100	N	Galvanized	145500
ZB 331010 L		100	N	Powder-coated	on req.
ZB 341010 V	400	100	N	Galvanized	145510
ZB 341010 L		100	N	Powder-coated	on req.
ZB 341020 V		200	N	Galvanized	145570
ZB 341020 L		200	N	Powder-coated	on req.
ZB 351010 V	500	100	N	Galvanized	145520
ZB 351010 L		100	N	Powder-coated	on req.
ZB 351020 V		200	N	Galvanized	145580
ZB 351020 L		200	N	Powder-coated	on req.
ZB 351030 V		300	N	Galvanized	145640
ZB 351030 L		300	N	Powder-coated	on req.
ZB 351040 V		400	V	Galvanized	145660
ZB 351040 L		400	V	Powder-coated	on req.
ZB 361010 V	600	100	N	Galvanized	145530
ZB 361010 L		100	N	Powder-coated	on req.
ZB 361020 V		200	N	Galvanized	145590
ZB 361020 L		200	N	Powder-coated	on req.
ZB 361030 V		300	N	Galvanized	145650
ZB 361030 L		300	N	Powder-coated	on req.
ZB 361040 V		400	V	Galvanized	145670
ZB 361040 L		400	V	Powder-coated	on req.
ZB 381020 V	800	200	N	Galvanized	145600
ZB 381020 L		200	N	Powder-coated	on req.
ZB 381040 V		400	V	Galvanized	145680
ZB 381040 L		400	V	Powder-coated	on req.

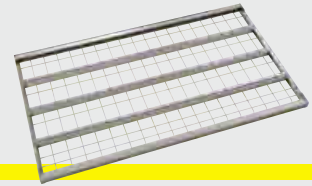
## Shelves for bay width 1,282 mm, height 40 mm

Sheet steel, powder-coated light silver or galvanized.

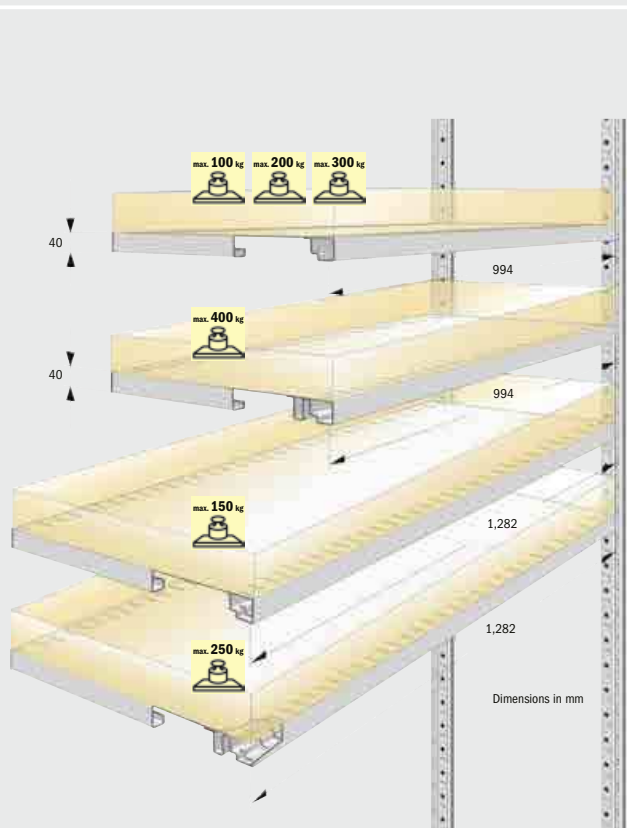
ZB 341315 V	400	150	N	Galvanized	145540
ZB 341315 L		150	N	Powder-coated	on req.
ZB 351315 V	500	150	N	Galvanized	145550
ZB 351315 L		150	N	Powder-coated	on req.
ZB 351325 V		250	V	Galvanized	145610
ZB 351325 L		250	V	Powder-coated	on req.
ZB 361315 V	600	150	N	Galvanized	145560
ZB 361315 L		150	N	Powder-coated	on req.
ZB 361325 V		250	V	Galvanized	145620
ZB 361325 L		250	V	Powder-coated	on req.
ZB 381325 V	800	250	V	Galvanized	145630
ZB 381325 L		250	V	Powder-coated	on req.



Wire mesh shelves

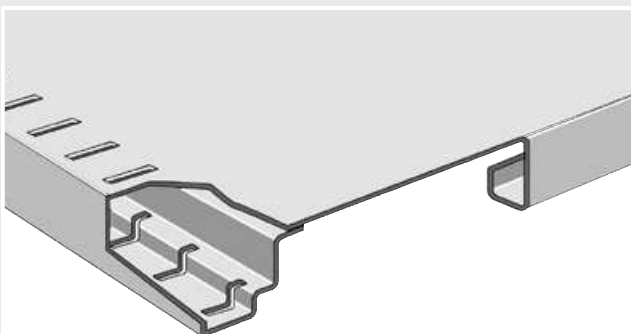


page B21

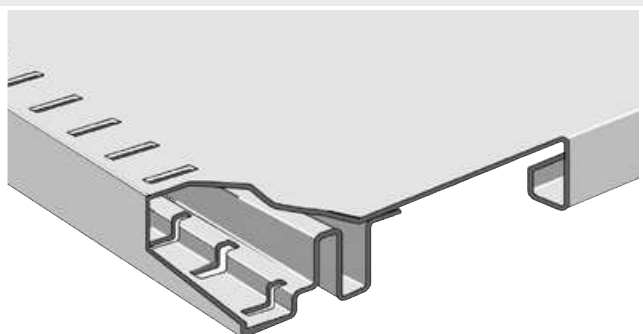


Shelf containers for

modular shelvings from page A10



Single edge shelf with 6-fold longitudinal edge = N-design



Double edge shelf with 10-fold longitudinal edge = V-design

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

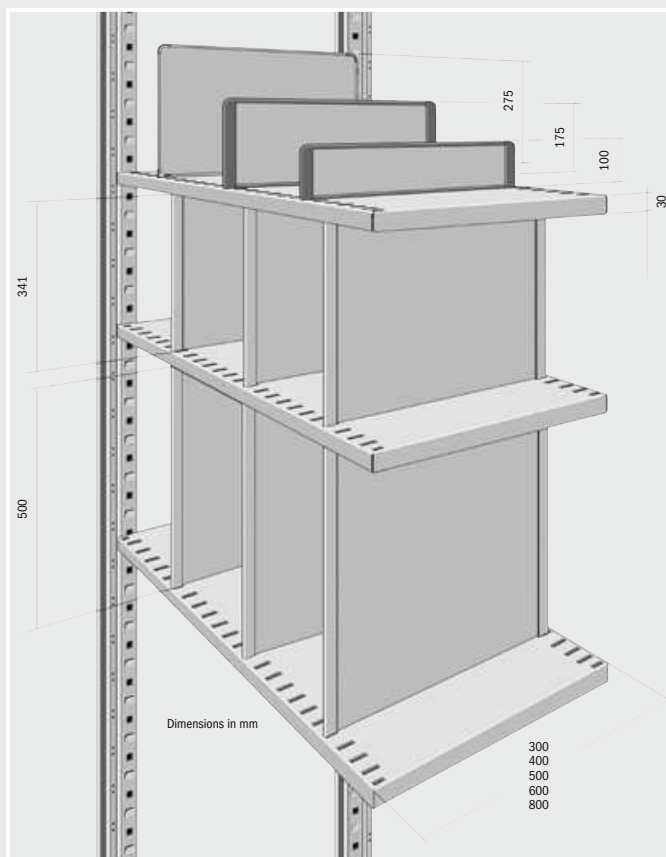
Logistics  
systems

Appendix





# Vertical shelf dividers



## Free-standing dividers for 30 mm high shelves

Sheet steel, galvanized. These dividers are inserted into the slots of the shelves independently of the compartment height and can also be used in combination with big fronts.

Item	Shelf depth (mm)	Divider height (mm)	Version with	Order no.
TRF-K 4310	300	100	Plastic connectors	27300
TRF-K 4317		175	Plastic connectors	27340
TRF-K 4410	400	100	Plastic connectors	27310
TRF-K 4417		175	Plastic connectors	27350
TRF-D 4427		275	Wire connectors	27380
TRF-K 4510	500	100	Plastic connectors	27320
TRF-K 4517		175	Plastic connectors	27360
TRF-D 4527		275	Wire connectors	27390
TRF-K 4610	600	100	Plastic connectors	27330
TRF-K 4617		175	Plastic connectors	27370
TRF-D 4627		275	Wire connectors	27400
TRF-D 4810	800	100	Wire connectors	39650
TRF-D 4817		175	Wire connectors	39660

## Full-height dividers

Sheet steel, galvanized, for clear shelf heights of 341 mm and 500 mm.

TR 4340	300	341	27200
TR 4440	400	341	27210
TR 4450		500	27240
TR 4540	500	341	27220
TR 4550		500	27250
TR 4640	600	341	27230
TR 4650		500	27260

Height elevations using shelves for the shelving heights 2,278, 2,490 and 2,967 mm

2278 2196	2 1083 1083 1	3 712 712 1	4 606 500 500 1	5 500 394 394 2 394 1	6 341 341 4 341 3 341 2 341 1	7 288 288 6 288 5 288 4 288 3 288 2 288 1	8 341 235 7 235 6 235 5 235 4 235 3 235 2 235 1	10 288 182 9 182 8 182 7 182 6 182 5 182 4 182 3 182 2 182 1	14 125 13 125 12 125 11 125 10 125 9 125 8 125 7 125 6 125 5 125 4 125 3 125 2 125 1
2490 2408	2 1189 30 1189 1	5 288 4 500 3 500 2 500 1 500	6 288 394 394 4 394 3 394 2 394 1 394	7 182 341 341 5 341 4 341 3 341 2 341 1 341	8 182 288 6 288 5 288 4 288 3 288 2 288 1 288	9 288 235 8 235 7 235 6 235 5 235 4 235 3 235 2 235 1	11 288 182 10 182 9 182 8 182 7 182 6 182 5 182 4 182 3 182 2 182 1	15 182 14 125 13 125 12 125 11 125 10 125 9 125 8 125 7 125 6 125 5 125 4 125 3 125 2 125 1	
2967 2885	3 871 2 977 30 977 1	6 235 5 500 4 500 3 500 2 500 1 500	7 341 394 394 5 394 4 394 3 394 2 394 1 394	8 288 341 341 6 341 5 341 4 341 3 341 2 341 1 341	9 341 288 8 288 7 288 6 288 5 288 4 288 3 288 2 288 1 288	11 235 235 10 235 9 235 8 235 7 235 6 235 5 235 4 235 3 235 2 235 1	14 125 13 182 12 182 11 182 10 182 9 182 8 182 7 182 6 182 5 182 4 182 3 182 2 182 1	18 182 17 125 16 125 15 125 14 125 13 125 12 125 11 125 10 125 9 125 8 125 7 125 6 125 5 125 4 125 3 125 2 125 1	

Order no. = on stock

## Vertical shelf dividers

## Free-standing dividers for 40 mm high shelves

Sheet steel, galvanized. These dividers are inserted into the slots of the shelves independently of the compartment height and can also be used in combination with big fronts.

Item	Shelf depth (mm)	Divider height (mm)	Version with	Order no.
TRF-K 4310 G	300	100	Plastic connectors	27301
TRF-K 4317 G		175	Plastic connectors	27341
TRF-K 4410 G	400	100	Plastic connectors	27311
TRF-K 4417 G		175	Plastic connectors	27351
TRF-D 4427 G		275	Wire connectors	27381
TRF-K 4510 G	500	100	Plastic connectors	27321
TRF-K 4517 G		175	Plastic connectors	27361
TRF-D 4527 G		275	Wire connectors	27391
TRF-K 4610 G	600	100	Plastic connectors	27331
TRF-K 4617 G		175	Plastic connectors	27371
TRF-D 4627 G		275	Wire connectors	27401
TRF-D 4810 G	800	100	Wire connectors	39651
TRF-D 4817 G		175	Wire connectors	39661

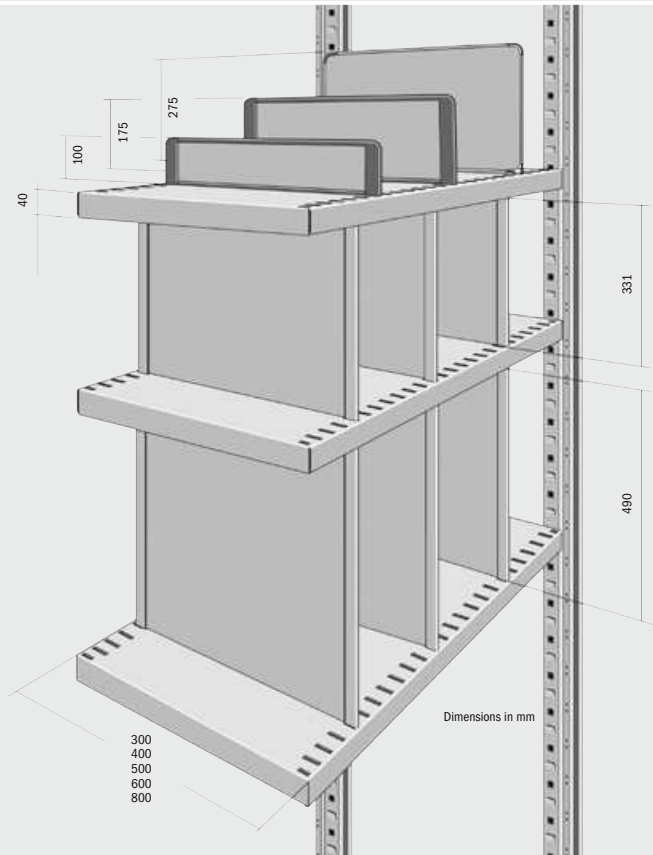
## Full-height dividers

Sheet steel, galvanized, for clear shelf heights of 331 mm and 490 mm.

TR 3330	300	331	147000
TR 3430	400	331	147010
TR 3450		490	147020
TR 3530	500	331	147030
TR 3550		490	147040
TR 3630	600	331	147050
TR 3650		490	147060

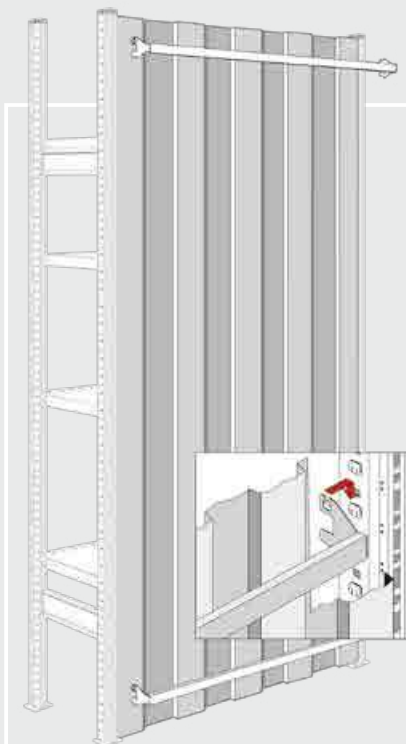
Height elevations using shelves for the shelving heights 2,278, 2,490 and 2,967 mm

2278 2186	2 40 1 1.073 1.073	3 702 2 702 1 702	4 596 3 49C 2 49C 1 49C	5 49C 4 384 3 384 2 384 1 384	6 331 5 331 4 331 3 331 2 331 1 331	7 278 6 278 5 278 4 278 3 278 2 278 1 278	8 331 7 225 6 225 5 225 4 225 3 225 2 225 1 225	10 278 9 172 8 172 7 172 6 172 5 172 4 172 3 172 2 172 1 172	14 119 13 119 12 119 11 119 10 119 9 119 8 119 7 119 6 119 5 119 4 119 3 119 2 119 1 119
	2490 2398	2 40 1 1.175 1.175	5 278 4 49C 3 49C 2 49C 1 49C	6 278 5 384 4 384 3 384 2 384 1 384	7 172 6 331 5 331 4 331 3 331 2 331 1 331	8 172 7 278 6 278 5 278 4 278 3 278 2 278 1 278	9 278 8 225 7 225 6 225 5 225 4 225 3 225 2 225 1 225	11 278 10 172 9 172 8 172 7 172 6 172 5 172 4 172 3 172 2 172 1 172	15 172 14 119 13 119 12 119 11 119 10 119 9 119 8 119 7 119 6 119 5 119 4 119 3 119 2 119 1 119
		2967 2875	40 861 967 967	6 225 5 49C 4 49C 3 49C 2 49C 1 49C	7 331 6 384 5 384 4 384 3 384 2 384 1 384	8 278 7 331 6 331 5 331 4 331 3 331 2 331 1 331	9 331 8 278 7 278 6 278 5 278 4 278 3 278 2 278 1 278	11 225 10 225 9 225 8 225 7 225 6 225 5 225 4 225 3 225 2 225 1 225	14 119 13 172 12 172 11 172 10 172 9 172 8 172 7 172 6 172 5 172 4 172 3 172 2 172 1 172

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

# Shelving components and accessories



## Back panels

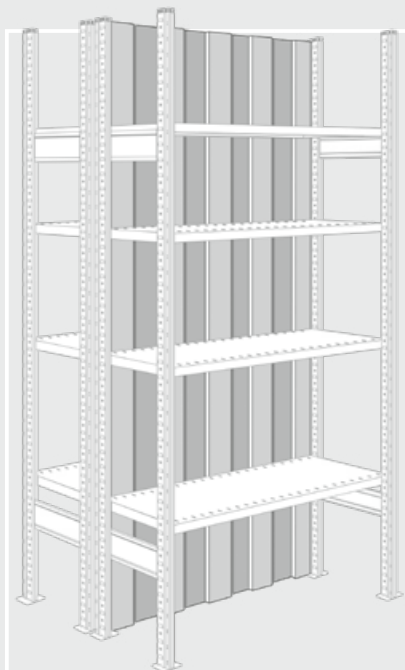
Sheet steel, galvanized. The 3-piece back panel leans against the shelves. The retaining beams are installed behind the back panel and attached to the upright lugs.

### For bay width 994 mm, 3-piece

Item	Height (mm)	Order no.
RWA 31022	2,278	146700
RWA 31025	2,490	146520
RWA 31030	2,967	146530

### For bay width 1,282 mm, 3-piece

RWA 31322	2,278	146710
RWA 31325	2,490	146550
RWA 31330	2,967	146560



## Center panels, inside

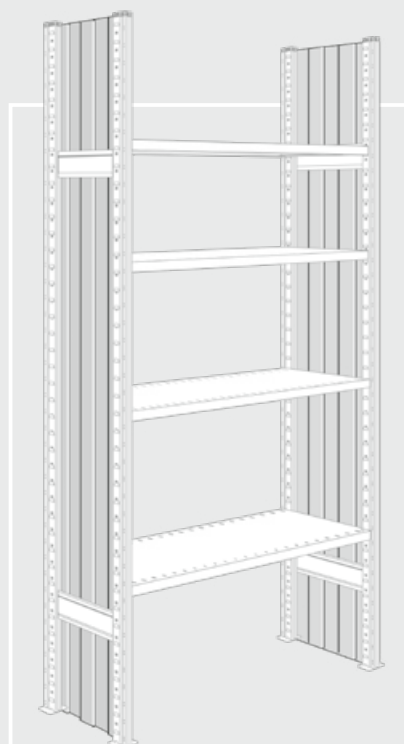
Sheet steel, galvanized. Installed in double-sided bays. The panels are held in position by the shelves.

### For bay width 994 mm, 3-piece

Item	Height (mm)	Order no.
RWI 31022	2,278	146720
RWI 31025	2,490	146460
RWI 31030	2,967	146470

### For bay width 1,282 mm, 3-piece

RWI 31322	2,278	146730
RWI 31325	2,490	146490
RWI 31330	2,967	146500



## Side panels

Sheet steel, galvanized. The side panel leans against the upright frame and is held in position by the shelves.

### For height 2,278 mm

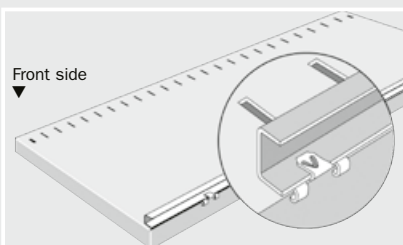
Item	Shelf depth (mm)	Order no.
SWI 3322	300	146650
SWI 3422	400	146660
SWI 3522	500	146670
SWI 3622	600	146680
SWI 3822	800	146690

### For height 2,490 mm

SWI 3325	300	146150
SWI 3425	400	146160
SWI 3525	500	146170
SWI 3625	600	146180
SWI 3825	800	146190

### For height 2,967 mm

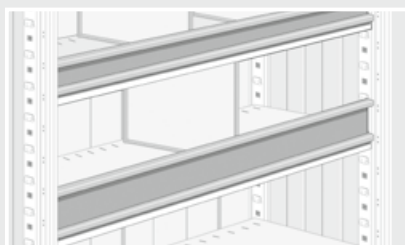
SWI 3330	300	146200
SWI 3430	400	146210
SWI 3530	500	146220
SWI 3630	600	146230
SWI 3830	800	146240



## Back stop

Sheet steel, galvanized. Prevents load carriers and storage goods from being pushed through, include 3 clips.

Item	Bay width (mm)	Order no.
DSL 4102	994	27990
DSL 9131	1,282	38190



## Bin fronts

Sheet steel, galvanized, for storing loose small parts. Particularly useful in conjunction with dividers and side and back panels.

Item	Bay width (mm)	Strip height (mm)	Order no.
VL 4001	994	40	27760
VL 4000		85	27750
VL 9001	1,282	40	37850
VL 9000		85	37860

## U-profile strips

We recommend U-profile strips when using sheet steel central and back panels (RWI/RWA type).

### U-profile strips, single

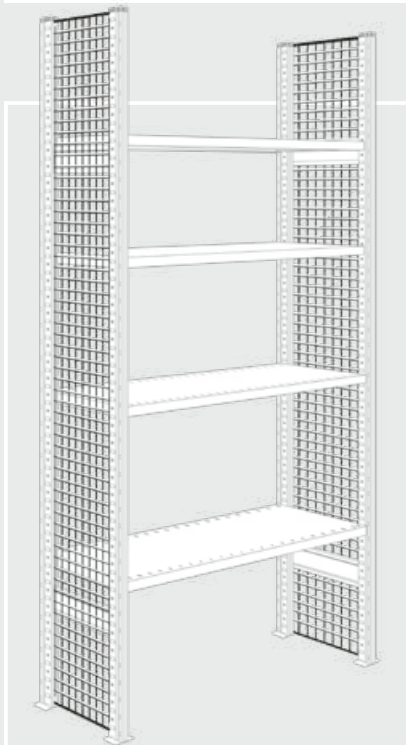
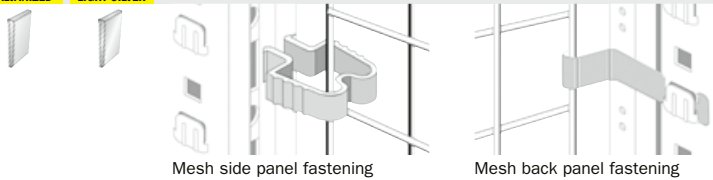
As an installation aid at the bottom or as a top piece.

Item	for bay width (mm)	Order no.
RWUE 3100	994	6623182
RWUE 3130	1,282	6623184

Order no. = on stock



## Accessories

**Mesh side panels**

Steel wire, painted light silver. The panels are attached to the uprights using clips. Incl. fixing kit.

**For height 2,278 mm**

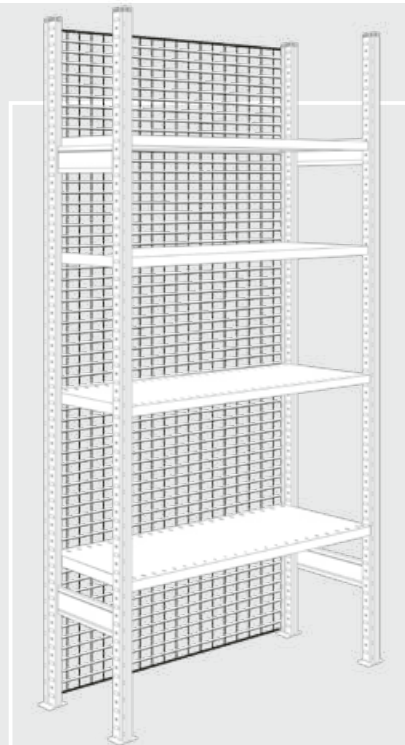
Item	Shelf depth (mm)	Order no.
SWG 3322	300	146740
SWG 3422	400	146750
SWG 3522	500	146760
SWG 3622	600	146770
SWG 3822	800	146780

**For height 2,490 mm**

SWG 3325	300	146350
SWG 3425	400	146360
SWG 3525	500	146370
SWG 3625	600	146380
SWG 3825	800	146390

**For height 2,967 mm, 2-piece**

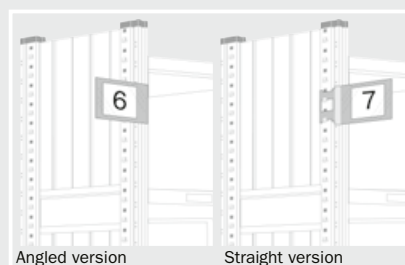
SWG 3330	300	146400
SWG 3430	400	146410
SWG 3530	500	146420
SWG 3630	600	146430
SWG 3830	800	146440

**Mesh back panels**

Steel wire, painted light silver. The panels are attached to the uprights using retaining springs. Incl. fixing kit.

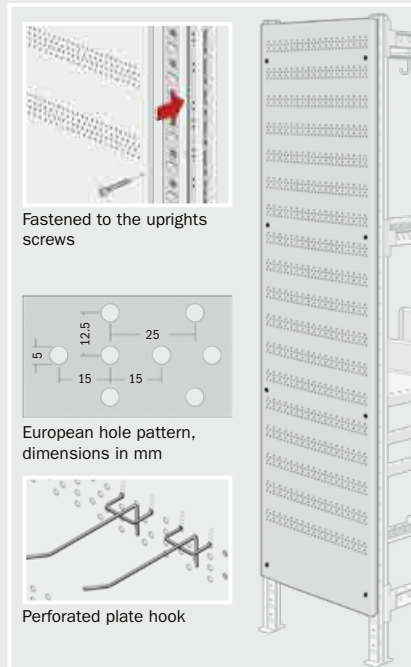
**For bay width 994 mm**

Item	Height (mm)	Order no.
RWG 31022	2,278	146790
RWG 31025	2,490	146580
RWG 31030	2,967/pair	146590
<b>For bay width 1,282 mm</b>		
RWG 31322	2,278	146800
RWG 31325	2,490	146610
RWG 31330	2,967/pair	146620

**Aisle signage**

For longitudinal and lateral labeling, with transparent film and removable labels. 1 PU = 10 pieces

Item	Type	Order no.
GBQ	straight version	145720
GBL	angled version	145730

**Outer side panels, perforated**

Sheet steel, galvanized.

**Height 2,000 mm**

Item	Shelf depth (mm)	Order no.
SWA 3420	400	146260
SWA 3520	500	146270
SWA 3620	600	146280
<b>Perforated plate hook</b>		
LPH 100		26790

**Plinth rails**

on request

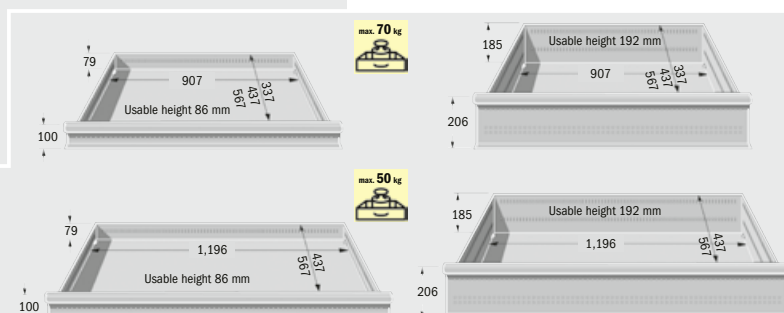


Drawer side covers with and without lock

## Drawers and accessories

### ► Stability

According to the guidelines of the German DG-UV rule 108-007, it is necessary to secure shelving units against tilting when drawers without a mechanical locking system are used.



### Drawers for bay width 994/1,282 mm

Sheet steel, galvanized, optionally drawer fronts painted light silver. Drawers can be combined with two-wing doors.

### Drawer side covers

Cover the spaces between the uprights and drawers. Attached using cross-head screws on the left and right of the drawer front.

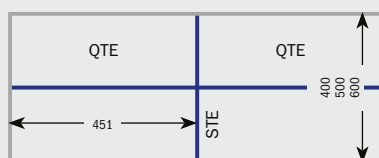
Delivered as a set for 1 drawer.

Item	For drawer front height (mm)	Type	Order no.
SBSL-ESCH 4100	100	with 1 lock	29720
SBL-ESCH 4100		without lock	28260
SBSL-ESCH 4200	206	with 1 lock	29730
SBL-ESCH 4200		without lock	28270

Item	Drawer front height (mm)	for bay width (mm)	for shelf depth (mm)	Usable depth (mm)	Load max. (kg)	Order no.
ESCH 341010-V-Z	100	994	400	337	70	6672340
ESCH 351010-V-Z		994	500	437	70	6672342
ESCH 361010-V-Z		994	600	567	70	6672345
ESCH 351310-V-Z		1,282	500	437	50	6672349
ESCH 361310-V-Z		1,282	600	567	50	6672351
ESCH 341020-V-Z	206	994	400	337	70	6672353
ESCH 351020-V-Z		994	500	437	70	6672355
ESCH 361020-V-Z		994	600	567	70	6672357
ESCH 351320-V-Z		1,282	500	437	50	6672361
ESCH 361320-V-Z		1,282	600	567	50	6672363

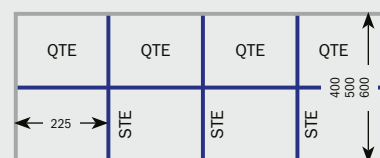
### Drawer dividers and cross partitioning

Pushed into plastic brackets connected to the rows of holes for the drawer front and side panels. For compartment widths 451, 225 and 112 mm, the compartment depths can be freely configured using adjustable cross dividers. Without cross dividers, the full drawer depth can be used, enabling individual compartment lengths.



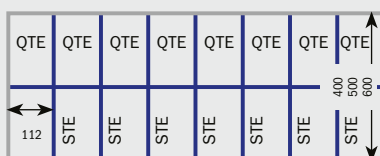
#### Quarter division, 1x STE and 2x QTE

Item	for drawer	Order no.
SE 4121	ESCH 4410	29742
SE 4122	ESCH 4420	29752
SE 5121	ESCH 4510	29740
SE 5122	ESCH 4520	29750
SE 6121	ESCH 4610	29741
SE 6122	ESCH 4620	29751



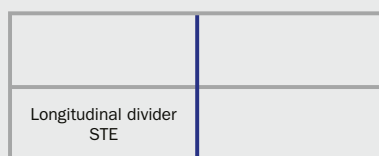
#### Eighth division, 3x STE and 4x QTE

Item	for drawer	Order no.
SE 4141	ESCH 4410	29762
SE 4142	ESCH 4420	29772
SE 5141	ESCH 4510	29760
SE 5142	ESCH 4520	29770
SE 6141	ESCH 4610	29761
SE 6142	ESCH 4620	29771



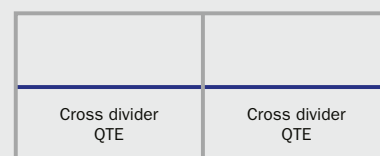
#### Sixteenth division, 7x STE and 8x QTE

Item	for drawer	Order no.
SE 4181	ESCH 4410	29782
SE 4182	ESCH 4420	29792
SE 5181	ESCH 4510	29780
SE 5182	ESCH 4520	29790
SE 6181	ESCH 4610	29781
SE 6182	ESCH 4620	29791



#### Longitudinal dividers

Item	Drawer front height (mm)	Order no.
STE 4010	100	26660
STE 4020	206	26670
STE 5010	100	29880
STE 5020	206	29881
STE 6010	100	29882
STE 6020	206	29883
QTE/STE	Divider holder	6000349



#### Cross dividers

Item	Division	Drawer front height (mm)	Order no.
QTE 1210	1/2	100	29860
QTE 1220	1/2	206	29861
QTE 1410	1/4	100	29862
QTE 1420	1/4	206	29863
QTE 1810	1/8	100	29864
QTE 1820	1/8	206	29865

Order no. = on stock

BLUE

LIGHT SILVER

Pull-out shelves  
Wing doors

### ► Two-wing doors

The bottom shelf must always be 30 mm high. The side and back panels must be ordered separately when retrofitting.



### Combination A

#### Only for drawer ESCH 4510.

12 longitudinal dividers W 46.5 mm and 30 cross dividers; 4 longitudinal dividers W 93 mm and 10 cross dividers.

Item	Shelf depth (mm)	Division height (mm)	Order no.
SUW 5003 A	500	36	35220
SUW 5006 A	500	66	35221



### Combination B

#### Only for drawer ESCH 4510.

6 longitudinal dividers W 46.5 mm and 24 cross dividers; 3 longitudinal dividers W 93 mm and 12 cross dividers; 2 longitudinal dividers W 186 mm and 4 cross dividers.

Item	Shelf depth (mm)	Division height (mm)	Order no.
SUW 5003 B	500	36	35230
SUW 5006 B	500	66	35231



### Combination C

#### Only for drawer ESCH 4510.

10 longitudinal dividers W 93 mm and 20 cross dividers.

Item	Shelf depth (mm)	Division height (mm)	Order no.
SUW 5003 C	500	36	35240
SUW 5006 C	500	66	35241



### Insert boxes

Polystyrene, blue, with labeling handle.

Pieces per unit:

EK 1: 58 pcs.; EK 2: 80 pcs.;

EK 3: 120 pcs.; EK 111-N: 48 pcs.

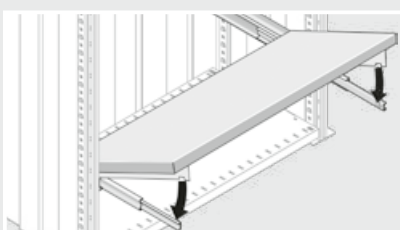
Item	L x W x H (mm)	Order no.
EK 1	180 x 96 x 60	1134
EK 2	90 x 96 x 60	1144
EK 3	90 x 48 x 60	1154
EK 111-N	137 x 87 x 96	4364

### Insert boxes – complete set

#### Only for drawer ESCH 4510.

10x EK 1, 20x EK 2, 10x EK 3.

SET 2501	12914
----------	-------



### Pull-out shelves

Sheet steel, painted light silver. Complete set including accessories. Compartment load: 70 kg (bay width 994 mm) and 50 kg (bay width 1,282 mm).

Item	Shelf depth (mm)	Bay width (mm)	Order no.
AZB 40995	400	994	35800
AZB 41283		1,282	35810
AZB 50995	500	994	35910
AZB 51283		1,282	35930
AZB 60995	600	994	35920
AZB 61283		1,282	35940

## Pull-out shelves, drawer dividers and wing doors



### Two-wing door

For installation in open shelving units with bay widths 994 and 1,282 mm. Height 2,111 mm.

To install the lower door fitting, the lowest shelf must always be 30 mm high.

**The side and back panels must be ordered separately when retrofitting.**

Item	for bay width (mm)	Order no.
FTR 4001	994	27900
FTR 9001	1,282	17690
BM-FTR-R3	Fixing kit	144980

← The lowest shelf must always be 30 mm high

**i** Side and back panels

page B14

**i** Additional shelves

from page B10

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix





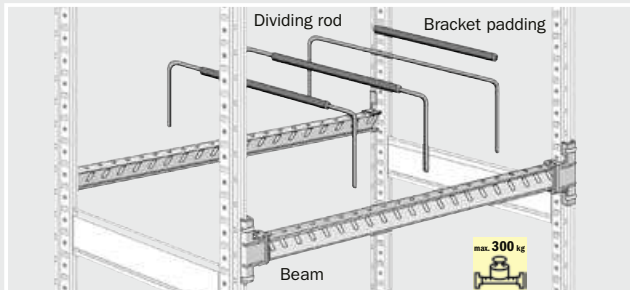
Beams  
Tube dividers  
Push-in holder

Hanging rail set  
Rail support  
Bridging cross beam

## Accessories for storage of bulky parts

### ► Longitudinal z-beams

are used for storage of bulky and car body parts. A minimum of two pairs of beams must be installed per bay and secured against being lifted out using the included screws. Shelving with z-beams do not require cross-braces for stiffening purposes.



#### Beams

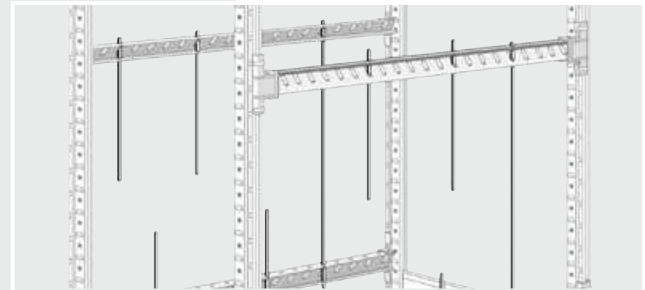
Sheet steel, galvanized. The height positions of the longitudinal beams can be adjusted in 53 mm steps.

Item	Beam length (mm)	Load/pair max. (kg)	Order no.
KTRZ 31036	994	300	147140
KTRZ 31336	1,282	300	147150
KTRZ 32036	2,019	300	147160

#### Hoop dividers

The KTB dividers serve to divide 500 or 800 mm deep shelving bays lengthwise. Height 330 mm.

Item	Frame depth (mm)	Order no.
KTB 50	500	159420
KTB 80	800	159430
KTB S	Bracket padding	39640



#### Tube dividers

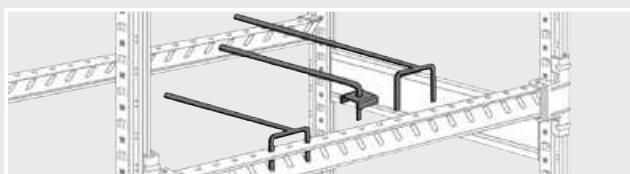
Sheet steel, galvanized. The tubes are pushed through the holes in the beams and lock in place automatically.

Item	Push-in tube length (mm)	Usable height (mm)	Order no.
KRA 4170	170		159440
KRA 4300	300		159450
KRA 4950	Glass parts holder	894	159460
KRA 4105	Glass parts holder	1,000	159470

#### Terodaem protective underlay (not shown)

To be stuck on the beams as a protection for sensitive metal parts. Self-adhesive, 932 mm length, 2 mm thick.

Item	Designation	Order no.
KRT 3102	Terodaem underlay, perforated	147340



#### Compartment dividers

Can be inserted and exhaust into the holes in the beams.

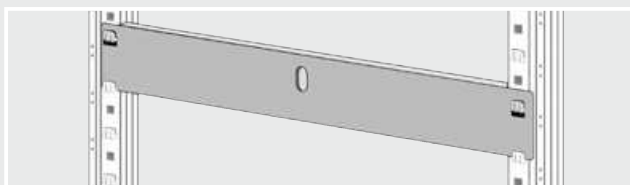
Item	Usable length (mm)	for shelf depth (mm)	Version with	Order no.
APH 340 E	340	400	1 connector	18130
APH 340	340	400	2 connectors	18120
APH 740	740	800	2 connectors	18110



#### Clothes rail set

Sheet steel, galvanized. For hanging covers, foot mats, clothing, etc.

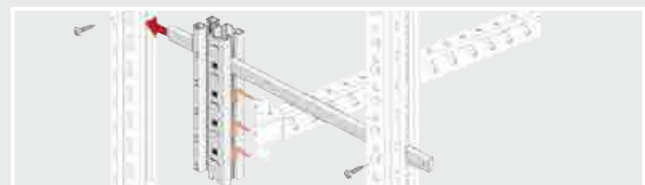
Item	L x D (mm)	Order no.
KST 3108	994 x 800	147190
KST 3134	1,282 x 400	147490
KST 3138	1,282 x 800	147200



#### Rail support

Sheet steel, galvanized. For lateral parts support.

Item	For shelf depth (mm)	Order no.
AL 3400	400	147470
AL 3500	500	147770
AL 3600	600	147780
AL 3800	800	147210



#### Bridging cross beam

Galvanized, for use in shelving frames and bridge fields as a storage option for differently-shaped parts.

Item	For shelf depth (mm)	Order no.
TRB 3812	800	147170

Order no. = on stock

# Accessories for storage of bulky parts

## Chipboard shelves, flush with beams

Made of 19 mm high chipboard. They are placed on the longitudinal beams via the universal carrier and create a unit with the same height. At the same time, the 19 mm high longitudinal edge of the wooden shelf is protected.

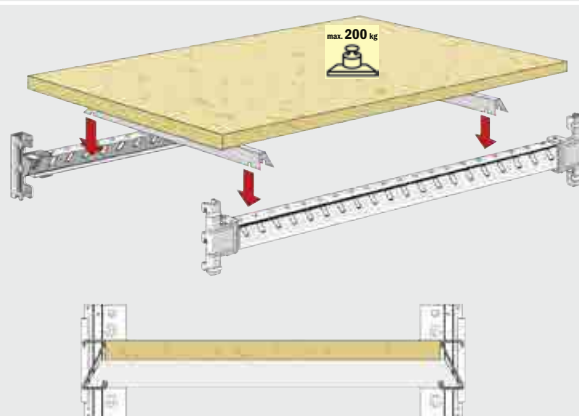
The beams are not included in the scope of delivery, please order separately (page B18).

Chipboard dimensions

for bay width 994 mm: W 985 x T 717 x H 19 mm

for bay width 1,282 mm: W 1,273 x T 717 x H 19 mm

Item	for bay width (mm)	Order no.
<b>KRHH 381020</b>	994, incl. 2 universal carriers	<b>94760</b>
<b>KRHH 381320</b>	1,282, incl. 3 universal carriers	<b>94670</b>
<b>UT 8800</b>	Universal carrier, single	<b>94770</b>



## Chipboard shelves, recessed

19 mm thick. Used as a stop, inserted into the longitudinal beams.

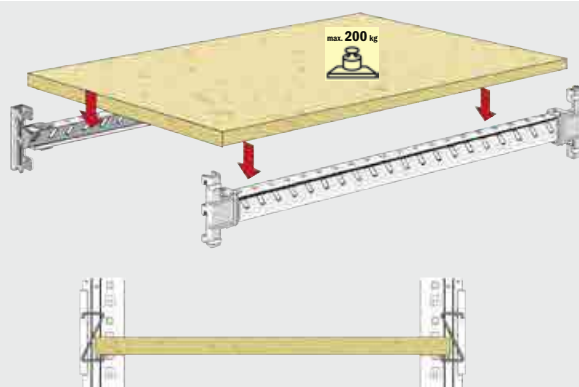
The beams are not included in the scope of delivery, please order separately (page B18).

Chipboard dimensions

for bay width 994 mm: W 985 x T 755 x H 19 mm

for bay width 1,282 mm: W 1,273 x T 755 x H 19 mm

Item	for bay width (mm)	Order no.
<b>KRAB 381020</b>	994	<b>94830</b>
<b>KRAB 381320</b>	1,282	<b>94990</b>



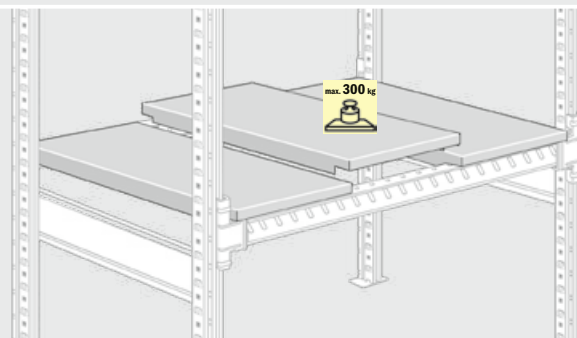
## Sheet steel panels

Galvanized, single or multiple panels can be used to create closed storage areas on the beam levels.

The beams are not included in the scope of delivery, please order separately (page B18).

W 328 x D 800 mm.

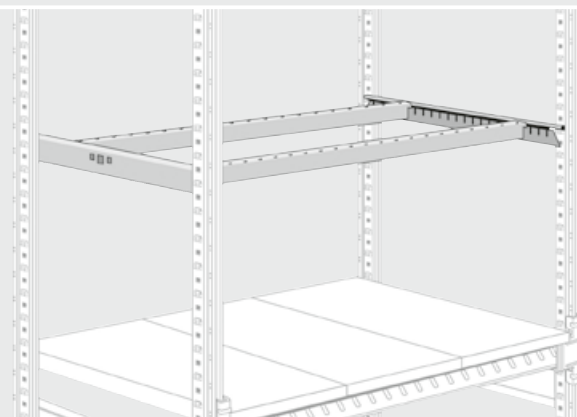
Item	for bay width (mm)	Order no.
<b>PA7834</b>	994 (3x for bay 994 mm)	<b>29110</b>



## Universal set

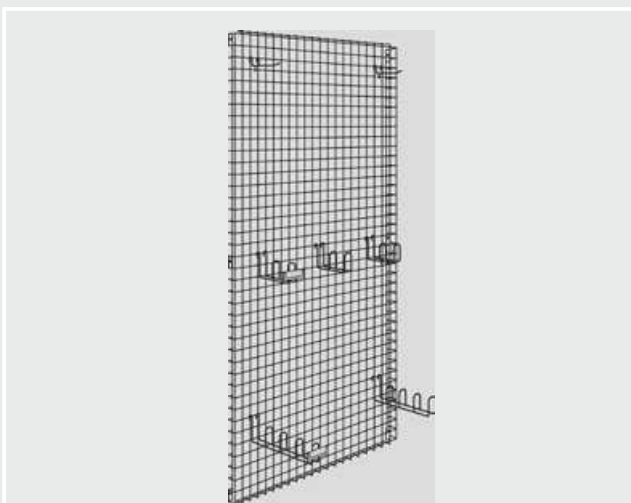
The universal set allows the distances between the individual beams to be configured independently on the rack depth. Two opposite TA 4800 beam supports are fitted onto the upright lugs on the sides at the same height. These beam supports have vertical slits. The universal beams fit into the slots and any number can be attached with freely configurable spacings. The entire system is supplied as one universal set, consisting of 2 galvanized TA beam supports and 2 galvanized UT universal beams.

Item	Designation	Order no.
<b>US 4100</b>	Universal set, 4-piece, shelf depth 800 mm	<b>26700</b>
<b>UT 4114</b>	Universal beams, single	<b>26710</b>
<b>KRT 4100</b>	Terodaem underlay, self-adhesive	<b>28220</b>





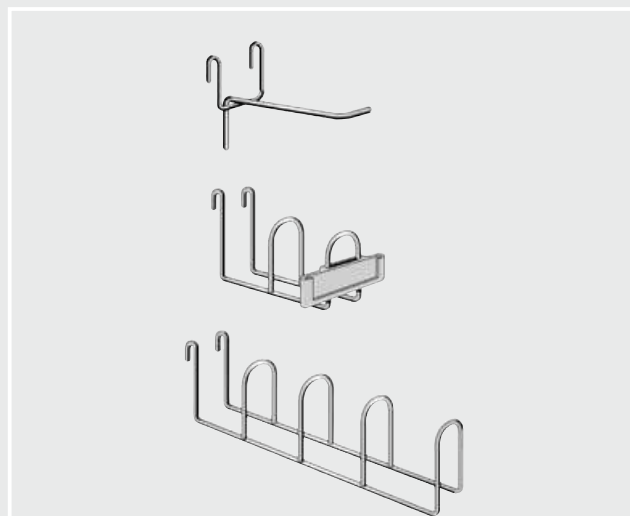
## Panel and long material storage



### Mesh wall hanging racks

Made of structural steel mesh, 50 x 50 x 4 mm, painted light silver. Incl. fastening clips.

Item	W x H (mm)	Order no.
ZR 210/W	1,055 x 2,050	11380



### Long parts hook

Galvanized steel wire. Hook for storing long parts and ornamental parts, hooked into the wire-mesh wall racks.

Item	Depth (mm)	Height (mm)	Type	Order no.
ZH 1	100	75	single	11600
ZH 2	160	75	2 center bars	11390
ZH 4	350	75	4 center bars	11410

### Label holder, labels and protective films

Item	Type	L x W (mm)	PU	Order no.
ZE 82	Plastic label frame	85 x 20	1	11420
ZEE	Index cards for ZE 82		100	11930
ZEF	Protective film		100	11940



For more information about panel  
and long material storage

on request

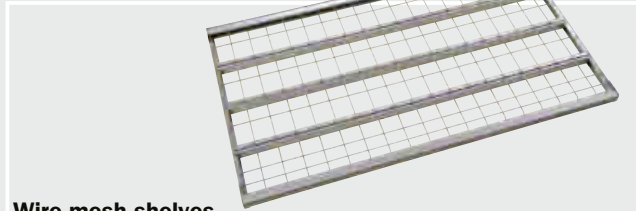


# Water permeable shelves, shelving for the hazardous goods in storage

## Project-specific solutions

We implement requirements regarding water and/or light permeability for your project with either perforated or wire mesh shelves.

Talk to us!



## Wire mesh shelves

Edge and reinforcements made of galvanized sheet steel with inserted wire-mesh. Load-bearing capacity up to max. 250 kg. Water permeability of up to 70%, ideal for project-specific fire protection requirements. Ideal for well-lit working environments and good air circulation. Powder-coated version on request.

Item	Shelf depth (mm)	L x D x H (mm)	Load (kg)	Order no.
DGB 341010 V	400	994 x 400 x 30	100	51701
DGB 341020 V	400	994 x 400 x 30	200	51706
DGB 351010 V	500	994 x 500 x 30	100	51702
DGB 351020 V	500	994 x 500 x 30	200	51707
DGB 361010 V	600	994 x 600 x 30	100	51703
DGB 361020 V	600	994 x 600 x 30	200	51708
DGB 381020 V	800	994 x 800 x 30	200	51709
DGB 341315 V	400	1,282 x 400 x 30	150	51711
DGB 341325 V	400	1,282 x 400 x 30	250	51716
DGB 351315 V	500	1,282 x 500 x 30	150	51712
DGB 351325 V	500	1,282 x 500 x 30	250	51717
DGB 361315 V	600	1,282 x 600 x 30	150	51713
DGB 361325 V	600	1,282 x 600 x 30	250	51718
DGB 381325 V	800	1,282 x 800 x 30	250	51719

Minimum order quantity: 1,000 pieces



## Hazardous materials storage system

Shelving with drip trays and grating shelves for the storage of water-polluting substances as per WHG and combustible materials as per the Ordinance on Industrial Safety and Health (BetrSichV) along with substances of positive liquid list as per DIN 6601. The hazardous goods rack can only be equipped with grating shelves and drip trays. Other accessories from the R 3000 system cannot be used.

The drip tray is attached securely to the lowest shelf level, installed in accordance with the following testing principles:

- Construction rules list A, Part 1, serial no. 15.22, edition 2002/2 from the German Institute for Building Technology
- Ordinance on Installations for the Handling of Substances Hazardous to Water (VAWS)
- Water Resources Act (WHG) section 19h in combination with the Ordinance on Installations for the Handling of Substances Hazardous to Water (VAWS)
- Directive regarding the Requirements for Collecting Trays made of Steel (StawaR)
- DIN 6600, DIN 6601, DIN 6625

Above-ground collecting trays made of sheet steel S 350 GD, liquid-tight welded, suitable for materials with a density of max. 1,000 kg/m³. A corresponding test certificate from RWT has been issued. Compliance with the guidelines as documented by the type plate of the tray.

## Drip trays

Item	Shelf depth (mm)	L x D x H (mm)	Collection vol. (l)	Order no.
OAW 4400	400	1,020/970 x 390 x 120/127	30	97990
OAW 4500	500	1,020/970 x 490 x 120/127	38	98150
OAW 4600	600	1,020/970 x 590 x 120/127	46	98160
OAW 4800	800	1,020/970 x 790 x 120/127	60	97970

Order no. = on stock

## Grating shelves

Item	Shelf depth (mm)	L x D x H (mm)	Load (kg)	Order no.
G 4400	400	993 x 345 x 30	200	98190
G 4500	500	993 x 445 x 30	200	98170
G 4600	600	993 x 545 x 30	200	98180
G 4800	800	993 x 745 x 30	200	97980

# Compact storage with mobile shelving systems

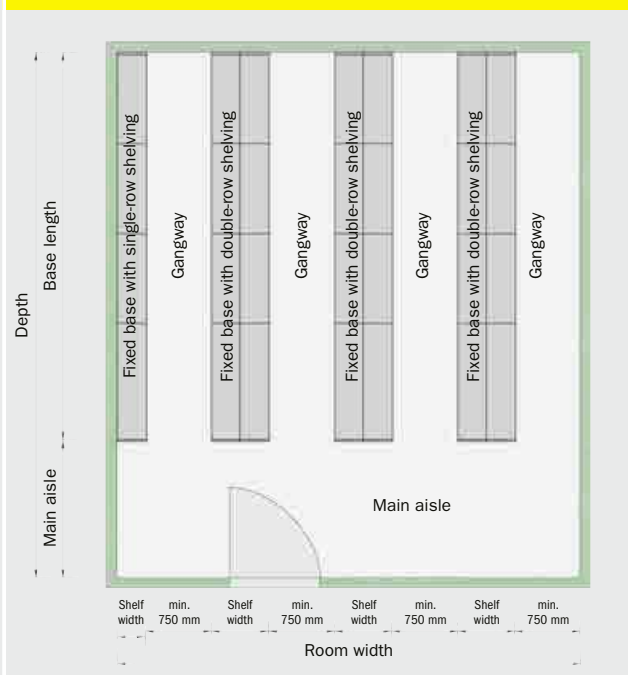
- **Compact storage**
- **Optimum conveying**  
even on critical surfaces
- **Your benefit:**  
**No risk of tripping**  
due to the use of special  
undercarriages directly on  
the existing floor

Conventional storage using fixed shelving requires a gangway between each shelf. This costs valuable storage space. Over the long term, mobile shelving systems are more profitable.

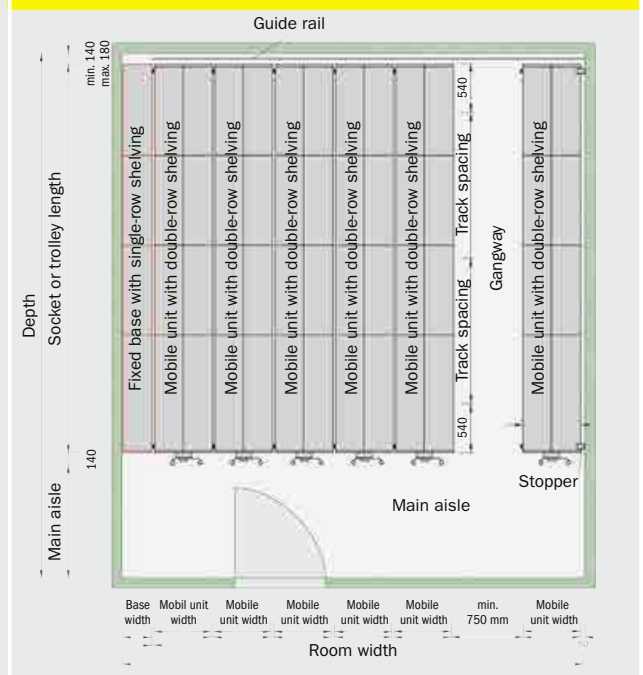
Mobile shelving technology requires only one aisle, as the shelving units are mounted on carriages and can be moved to provide access if needed.

This increases valuable storage space by up to 85% for single-story and more than 100% for multi-tier installations.

## Stationary



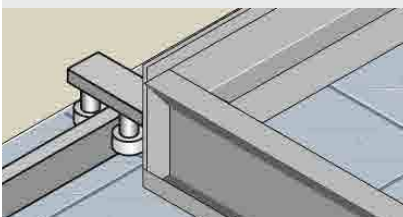
## Mobile shelving systems



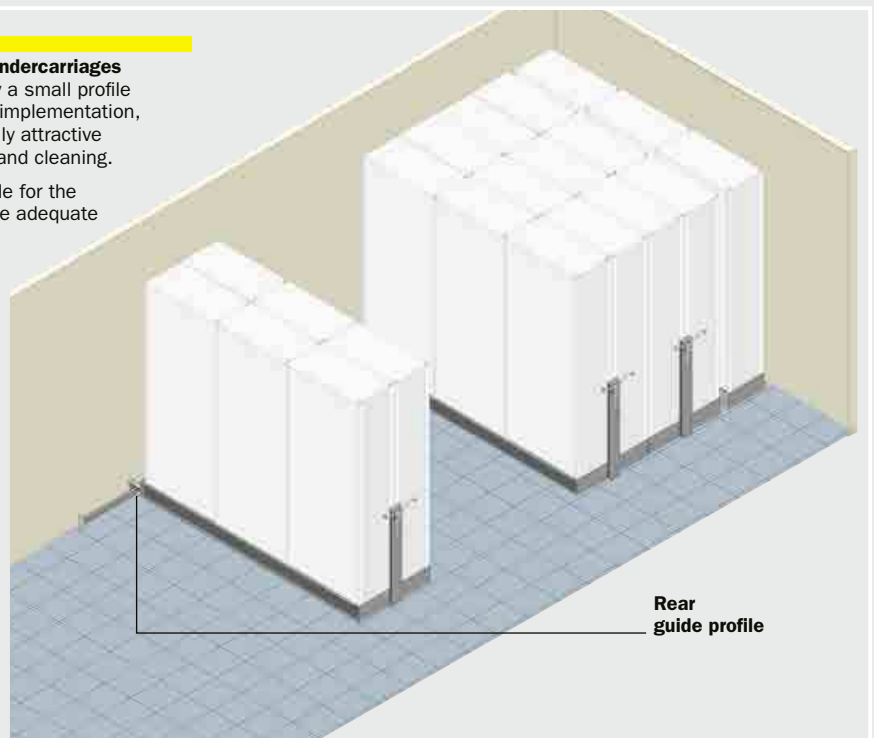
## Rail-free systems with crank drive

These systems move the carriage **using special undercarriages directly on the existing floors**. They are guided by a small profile attached to the rear side. This saves time for the implementation, is especially cost-effective and is also an especially attractive option for modifications (relocations, extensions) and cleaning.

All permanently installed floor surfaces are suitable for the use of SSI SCHAEFER rail-free systems if they have adequate load-bearing capabilities.



Rear guide profile – rail-free version



► **For storage on**

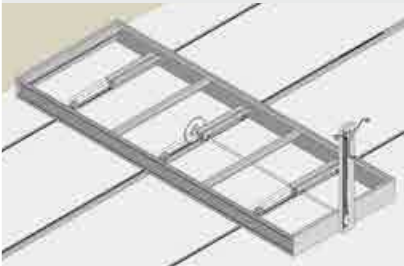
- Shelves
- Longitudinal beams
- Cantilever racking

# Mobile shelving systems

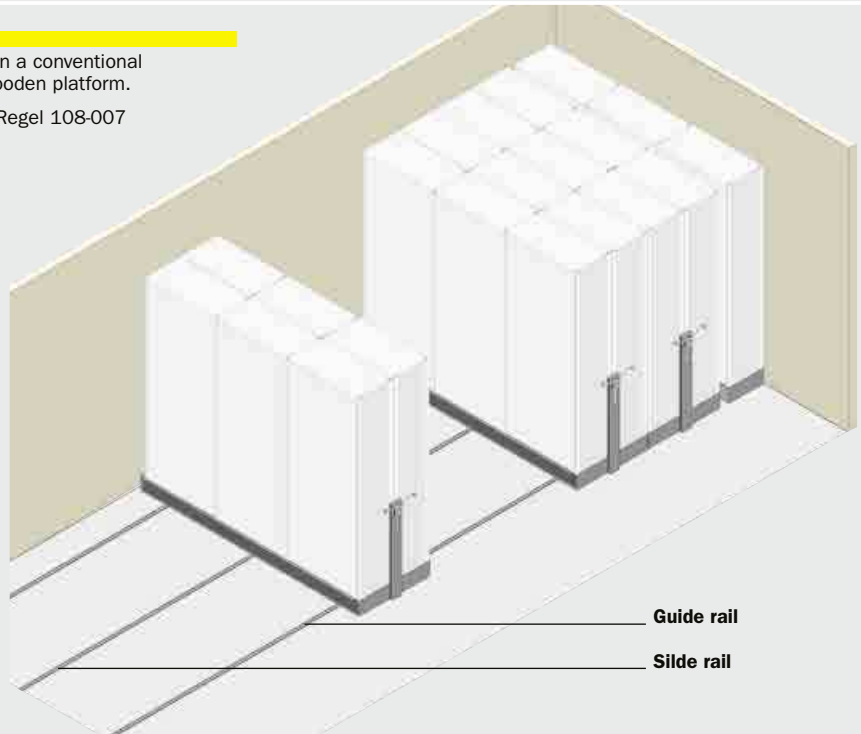
## Rail-guided systems with crank drive

The mobile units can be moved safely and easily in a conventional manner using rails installed in the floor or on a wooden platform.

- Up to 5 t payload per mobile unit as per DG-UV-Regel 108-007
- Easy movement
- Long shelving rows possible
- With tipping protection (optional)



Rail-guided mobile unit



## Electrically movable racks with access control (RFID)

With the VRL-ELX mobile shelving, the mobile units are moved parallel to each other with a single motor drive. This guarantees fast, secure and efficient work.

Scaling a badge on the operator panel opens the aisles for removal. In addition, the RFID control ensures security, because unauthorized persons do not have access to the system. The individual access privileges can be set for each rack row individually using a PC.

- Up to 16 t payload per traveling unit
- Long shelving rows possible
- With tipping protection
- RFID access control
- Fan function for fire extinguishing and ventilation of stored documents



Simple operation using RFID





## Wheel and tire storage

Wheel and rim storage is efficient if it is optimally designed for the local conditions. Space-saving, flexible and safe systems are required. Wheel storage systems from SSI SCHAEFER fulfill precisely these criteria.

Storing wheels and rims has never been easier and more practical. The specially shaped wheel and rim beams simply slot into the pre-assembled upright frames without using screws. In addition, the strong beam end connectors reinforce the rigidity of the shelving. The individual levels can be adjusted in 53 : 53 mm steps at any time.

SSI SCHAEFER offers a variety of wheel storage solutions. These include storage next to each other in single and double-depth racks and in sets behind one another in channels.

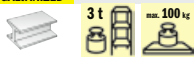
Page B25 displays the complete shelving systems and their individual parts.

Car dealerships and workshops rely increasingly on complete service concepts to offer their customers added value. This includes services such as storing the customers' wheels.

On pages B26 and B27 you will find a solution that could be well suited to your needs. We are happy to advise you – feel free to contact us!

The numerous reference systems speak for themselves. SSI SCHAEFER designs the most economical, technically and ergonomically optimized system based on your specific application and usage.





### ► Upright slots

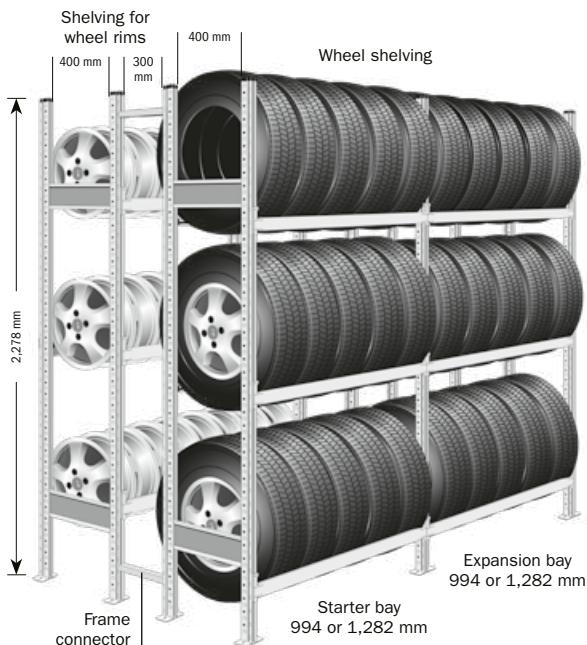
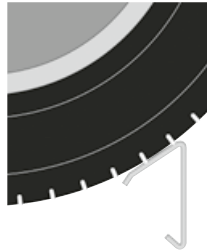
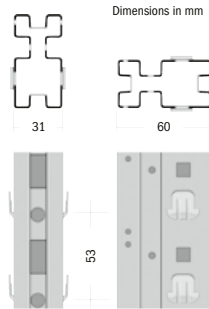
the upright slots enable the tire and rim beams to be configured and adjusted in a 53 mm pattern without the use of screws. This allows the levels to be precisely adjusted to the specific wheel and rim sizes

### ► Lug pitch

at the same time, the lug spacing (53 mm pattern) enables shelves to be inserted so that the shelving can be used extensively and for a variety of different purposes

### ► Wheel and rim beam

the special beam profile from SSI SCHAEFER ensures the safe storage of wheels and rims



# Wheel storage – complete systems/individual parts

## Wheel and rim complete shelving systems

For approximately 15 or 18 medium-sized wheels per bay. Especially sturdy and flexible bolt-free system. Sheet steel, galvanized. Complete units consisting of:

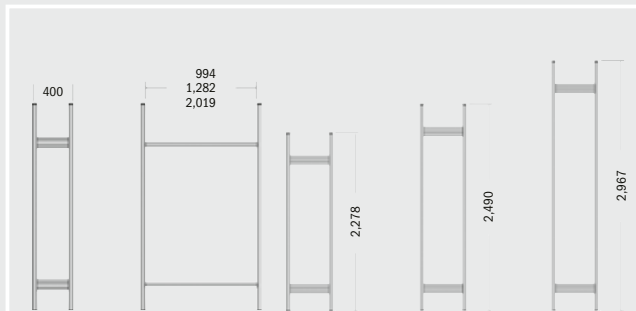
Starter bay: 2 frames and 6 beams (equal to 3 storage levels), 2 frame connectors

Expansion bay: 1 frame and 6 beams (equal to 3 storage levels), 1 frame connector

Clear bay width: 994/1,282 x H 2,278 x D 400 mm

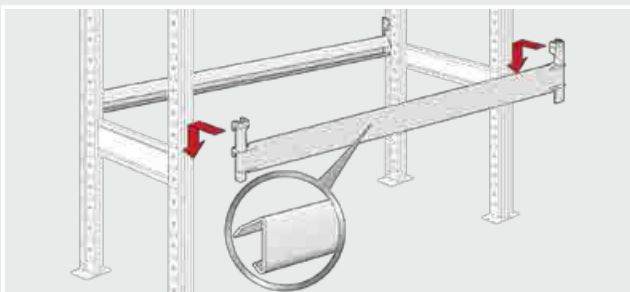
Adjusting pattern: 53 : 53 mm

Item	Type	Bay width (mm)	Order no.
RFR3410223V-GF	Starter bay	994	147900
RFR3410223V-AF	Expansion bay	994	147910
RFR3413223V-GF	Starter bay	1,282	147920
RFR3413223V-AF	Expansion bay	1,282	147930



## Upright frames, galvanized

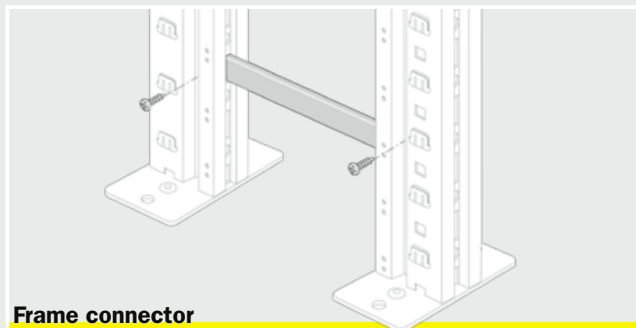
Item	Shelf height (mm)	Shelf depth (mm)	Bay load max. (kg)	Order no.
RR34322-V-M	2,278	400	3,000	6671816
RR34325-V-M	2,490	400	3,000	6671821
RR34330-V-M	2,967	400	3,000	6671826



## Wheel and rim beams

Item	Clear bay width (mm)	Load/pair max. (kg)	Order no.
RTR 31015	994	100	147220
RTR 31115	1,100	100	6670435
RTR 31315	1,282	100	147230
RTR 31325	1,282	200	147980
RTR 31525	1,506	200	147990
RTR 32025	2,019	200	147240
RTR-VS3400	Torsion bar for clear bay width 2,019 mm		6670339

Order no. = on stock



## Frame connector

Sheet steel, galvanized. For connecting 2 shelving bays back-to-back. Incl. fixing kit.

Item	For frame distance (mm)	Order no.
RV 3300	300	147120

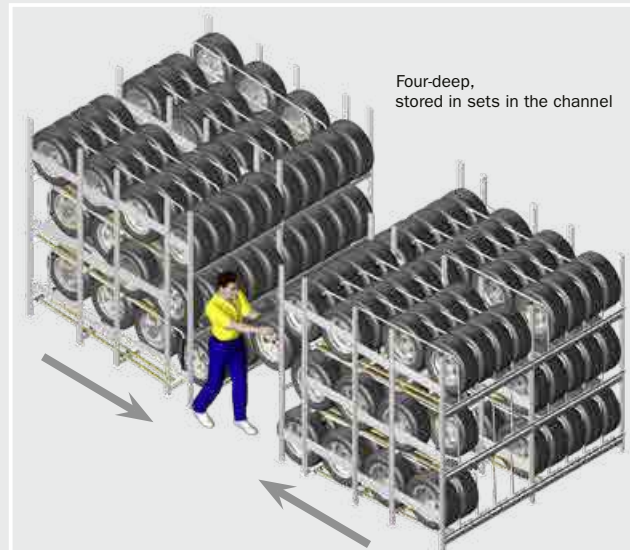
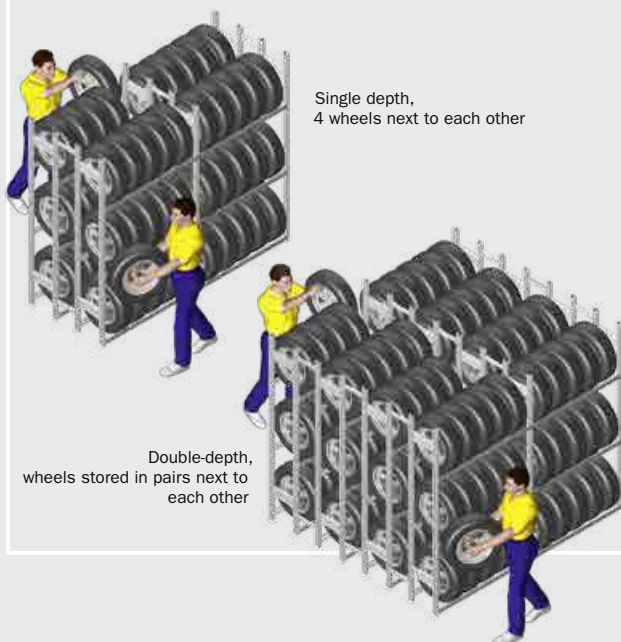


# Wheel storage

## Single/double-depth, stationary shelves

The conventional single-depth system stores the four wheels next to each other in a single-depth shelving. Storing the wheels in double-deep pairs is more efficient. In this case, two wheels are stored one behind the other in a shelving.

Single and double-depth shelving systems can also be installed as mobile shelving with manual or electric drives.



## Four-deep, dynamic shelves

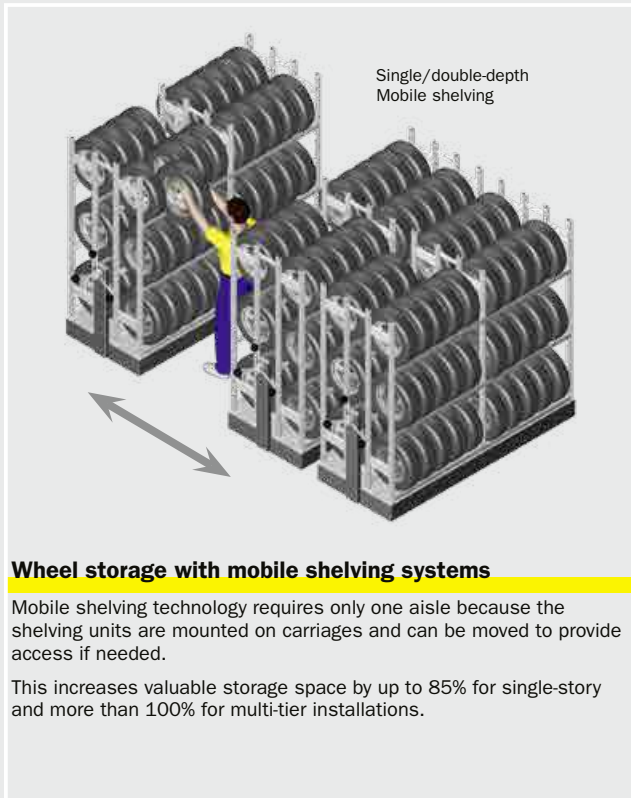
Four-deep, dynamic shelving conveniently provide a cost effective and efficient solution for storing a set of wheels one behind the other in a channel with roller tracks where they can also be removed ergonomically.

This method combines dynamic storage technology with conventional shelving. During removal, the wheels at the rear roll forward on roller tracks into an easily accessible position.



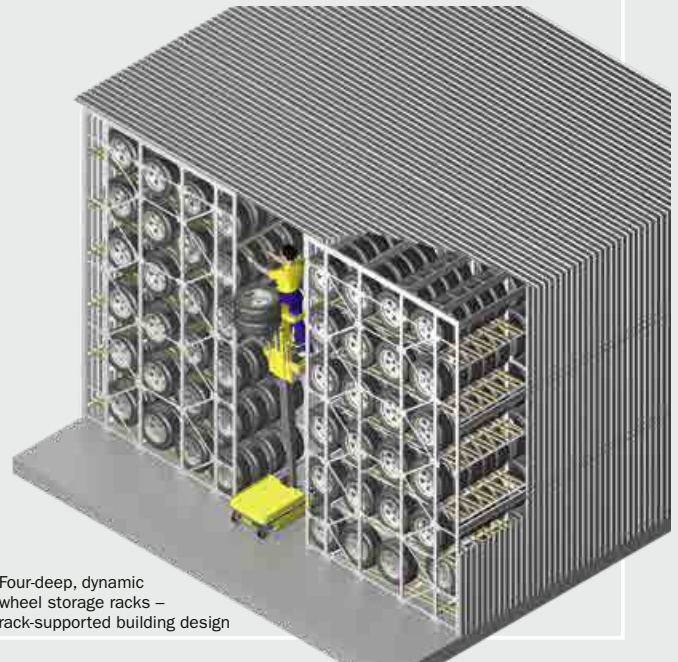


# Wheel storage



## Wheel storage using a silo construction

All stationary systems can also be implemented as integrated building solutions with complete roof and wall cladding (silo construction). SSI SCHAEFER draws on decades of experience in the high bay shelving and racking systems and numerous successful reference projects.

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



## Compact storage using ...

### New parts storage concepts based on the SSI SCHAEFER Locator System.

Effective storage planning is distinguished by short travel times for people and material. In keeping with the motto "space-saving – fast – flexible and reliable", SSI SCHAEFER has taken parts storage to a new level with the Locator System. This concept provides capabilities that were once reserved for state-of-the-art logistics centers.

#### The principle:

The parts are stored on the basis of their size and weight as well as the current inventory. Special characteristics such as hazardous substances, water, sensitivity and value are taken into account as is the movement data of the article.

**The Locator System assigns a suitable storage location with a fixed address to every article based on its specified characteristics.**

### Benefits for facility management

- Up to 50% space saving
- Up to 50% lower operating costs  
(energy and maintenance)



## Operational benefits

- **Up to 70% shorter paths**  
when picking orders = order picking work
- **Up to 50% shorter paths**  
when putting goods into storage
- **Up to 70% faster storage**



### The result:

The consistent compartment allocation determines the space reserves in advance. This results in significantly better space usage for small and middle-sized parts in comparison to conventional systems. This provides storage area and space savings **of up to 50%**.

The storage locations always have optimized paths based on the turnover, further reducing the already short paths. This also shortens the travel time for both storage and order picking **by more than 70%**.

Another advantage is that **searching is eliminated**. The part is located where it is registered in the EDP system. Parts can be found by anyone, even without special expertise.



## ... SSI SCHAEFER Locator System

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix







## R 7000 – the versatile shelving system



The R 7000 modular shelving is an advanced frame system that enables the completely free design of the shelving bays. It is easy to assemble and suitable for a wide range of warehouse tasks due to its diverse accessories.

Freely positionable shelves or beams enable variable compartment heights that can be flexibly adapted to the size of the storage goods.

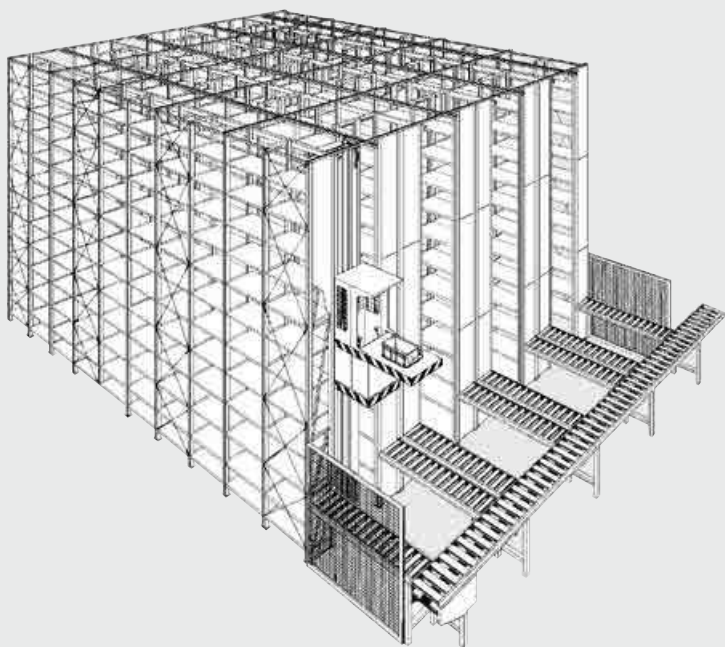
Available with the bay widths 995 and 1,283 mm, the shelving system is designed for bay loads of up to 6,000 kg. As a consequence, the R 7000 modular shelving system is ideal for constructing free-standing high bay racking systems with storage and retrieval machinery or for multi-tier installations with accessible platforms and high load requirements.

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

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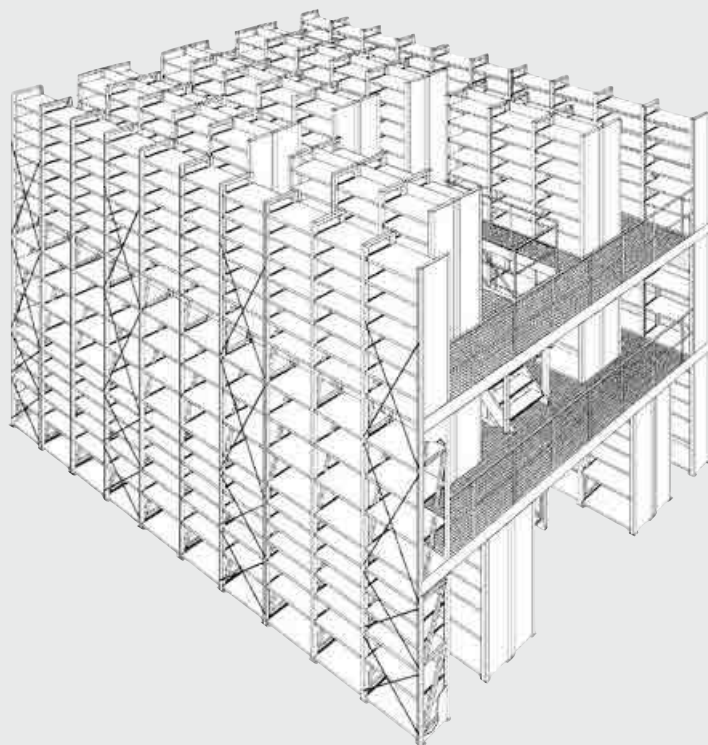


# High bay storage and multi-tier installations



The R 7000 as high bay storage connected to a conveyor system

## **i** Up to 5 stories high



The R 7000 as a three-story walk-in modular shelving system



- ▶ **Bolt-free system**  
for high bay storage
- ▶ **Frame system**  
2 bay widths, 4 shelf depths, various story heights
- ▶ **Rapid assembly**  
due to precisely prefabricated components
- ▶ **High loading capacity of up to 6,000 kg per bay**
- ▶ **Extensive range of accessories**
- ▶ **High bay storage facilities and multi-tier installations can be constructed**

The R 7000 complies with the guidelines for storage facilities and equipment defined by the trade association. As such, it is certified with the GS mark.





# The equipment



► **R 7000 on-line shelving**  
from page **G6**



## Also available:

**Mesh side and back panels** (not shown)  
Page **B38 – B39**

**Solid steel side and back panels** (not shown)  
Page **B38**

**Horizontal braces** (not shown)  
Page **B36**



**Upright frames**  
Page **B34**

**End stop**  
Page **B36**

**Cross braces for stabilization**  
Page **B34**

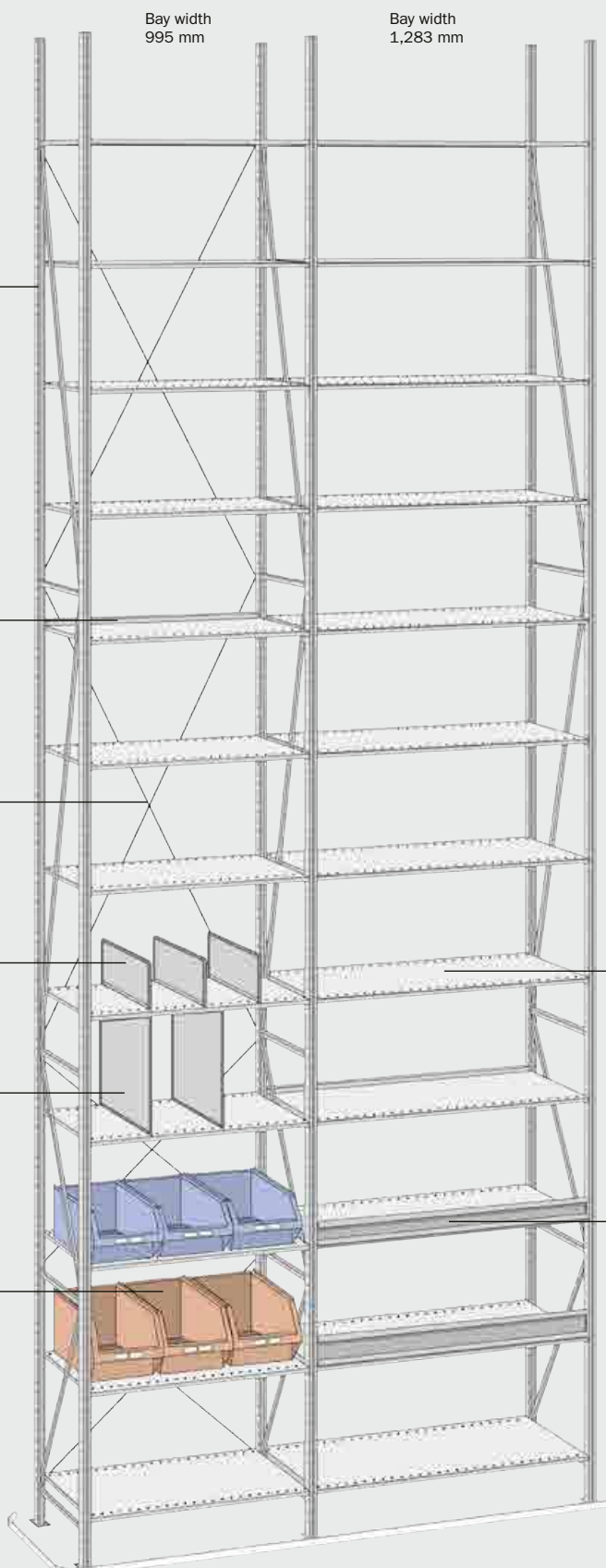
**Free-standing dividers**  
Page **B37**

**Full-height dividers**  
Page **B37**

**Semi-open front storage containers**  
Chapter **A**,  
from page **A2**

**Shelves**  
Page **B35**

**Bin fronts**  
Page **B39**



Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix

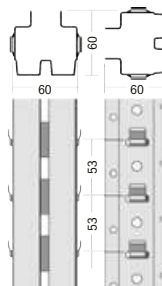


# The upright frame system

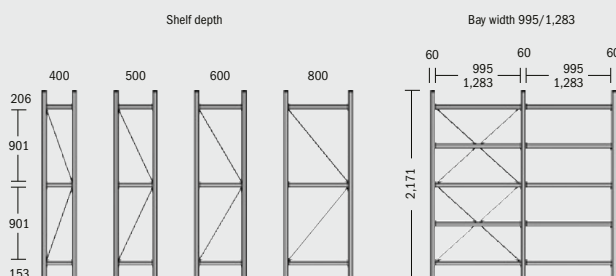
## Upright profiles and horizontal frame bracing pre-assembled at the factory

Pre-assembled upright frames are folded up for space-saving transport

## Lug pattern: 53 : 53 mm

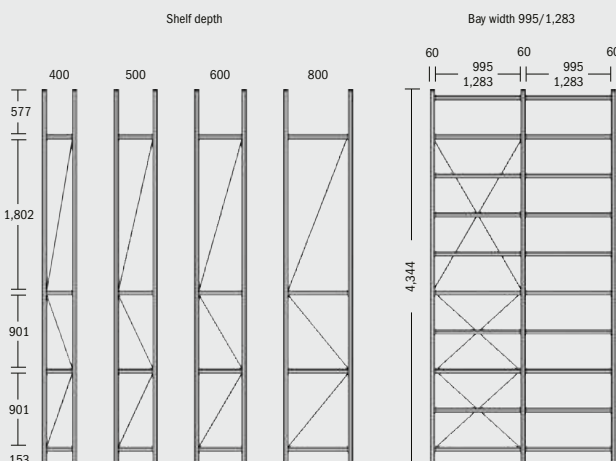


Dimensions in mm



## Upright frame, height 2,171 mm, galvanized

Item	Height (mm)	Shelf depth (mm)	Bay load max. (kg)	Order no.
RR 7442	2,171	400	4,000	28290
RR 7542		500	4,000	28390
RR 7642		600	4,000	28490
RR 7842		800	4,000	28590

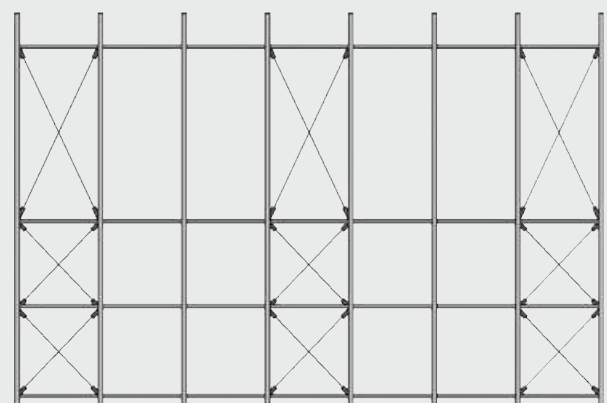


## Upright frame, height 4,344 mm, galvanized

Item	Height (mm)	Shelf depth (mm)	Bay load max. (kg)	Order no.
RR 7444	4,344	400	4,000	28300
RR 7544		500	4,000	28400
RR 7644		600	4,000	28500
RR 7844		800	4,000	28600
RR 7454	4,344	400	5,000	28310
RR 7554		500	5,000	28410
RR 7654		600	5,000	28510
RR 7854		800	5,000	28610
RR 7464	4,344	400	6,000	28320
RR 7564		500	6,000	28420
RR 7664		600	6,000	28520
RR 7864		800	6,000	28620

## Further heights

on request



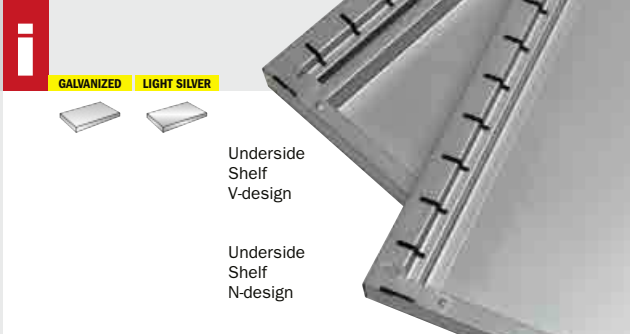
## Cross braces

A cross brace must be fitted onto the back of the first and every other third bay to stabilize the shelving. Shelves must be attached near the cross-brace connecting points and secured against accidental removal with anti-lifting devices.

Item	Height (mm)	Bay width (mm)	Order no.
KV 7109	901	995	28700
KV 7118	1,802	995	28710
KV 7131	901	1,283	28740
KV 7132	1,802	1,283	28750

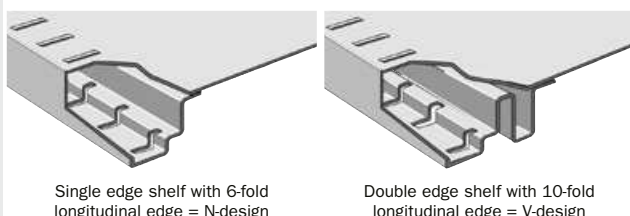
Order no. = on stock

## Shelves



## ► Shelves

sheet steel, galvanized or powder-coated light silver, 30 mm high. For dividing the shelving bays into compartments of any desired height. With rows of slots at the front and rear for fitting dividers, slot spacing 41 mm. Offset arrangements of independent compartment heights are possible in double-row shelving



## Shelves for bay width 995 mm, height 30 mm

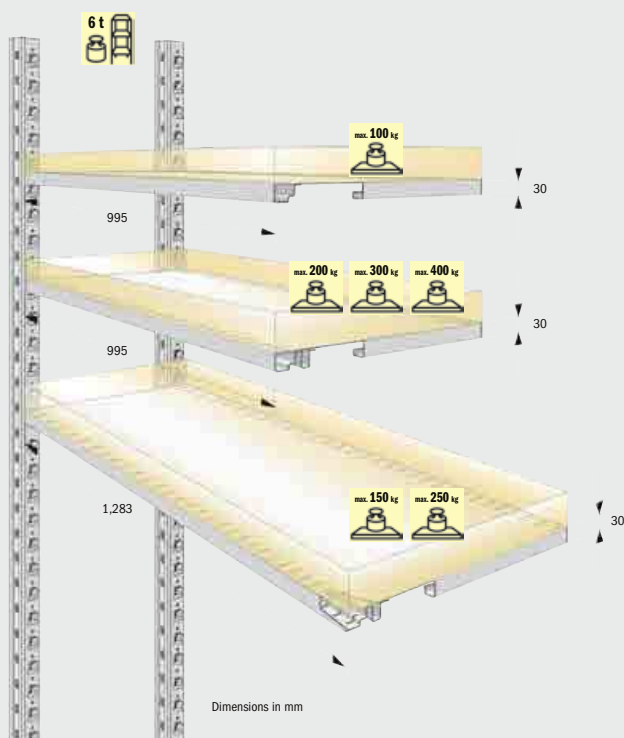
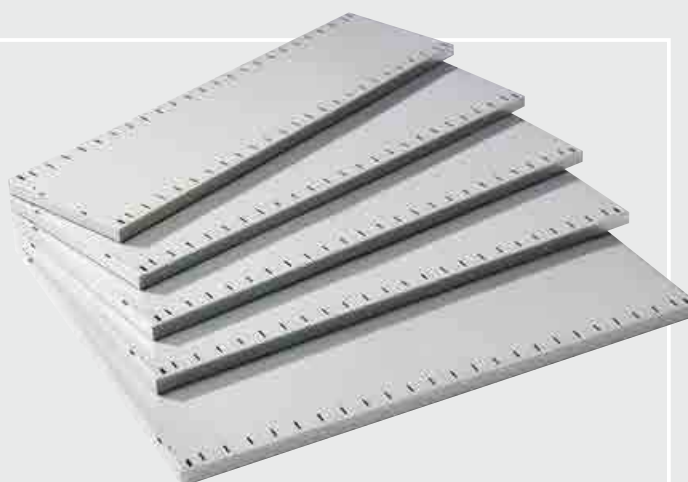
Sheet steel, powder-coated light silver or galvanized.

Item	Shelf depth (mm)	Load capacity max. (kg)	Edge design	Surface	Order no.
ZB 4413 V	400	100	N	Galvanized	27012
ZB 4413 L		100	N	Powder-coated	27010
ZB 4423 V		200	V	Galvanized	27022
ZB 4423 L		200	V	Powder-coated	27020
ZB 4513 V	500	100	N	Galvanized	27032
ZB 4513 L		100	N	Powder-coated	27030
ZB 4523 V		200	V	Galvanized	27042
ZB 4523 L		200	V	Powder-coated	27040
ZB 4533 V		300	V	Galvanized	27052
ZB 4533 L		300	V	Powder-coated	27050
ZB 4543 V		400	V	Galvanized	27062
ZB 4543 L		400	V	Powder-coated	27060
ZB 4613 V	600	100	N	Galvanized	27072
ZB 4613 L		100	N	Powder-coated	27070
ZB 4623 V		200	V	Galvanized	27082
ZB 4623 L		200	V	Powder-coated	27080
ZB 4633 V		300	V	Galvanized	27092
ZB 4633 L		300	V	Powder-coated	27090
ZB 4643 V		400	V	Galvanized	27102
ZB 4643 L		400	V	Powder-coated	27100
ZB 4823 V	800	200	V	Galvanized	27172
ZB 4823 L		200	V	Powder-coated	27170
ZB 4843 V		400	V	Galvanized	27192
ZB 4843 L		400	V	Powder-coated	27190

## Shelves for bay width 1,283 mm, height 30 mm

Sheet steel, powder-coated light silver or galvanized.

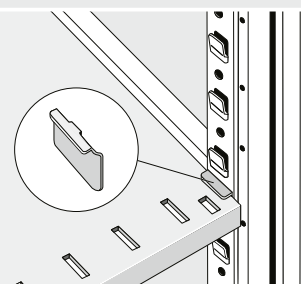
ZB 9415 V	400	150	V	Galvanized	38102
ZB 9415 L		150	V	Powder-coated	38100
ZB 9515 V	500	150	V	Galvanized	38112
ZB 9515 L		150	V	Powder-coated	38110
ZB 9525 V		250	V	Galvanized	38122
ZB 9525 L		250	V	Powder-coated	38120
ZB 9615 V	600	150	V	Galvanized	38132
ZB 9615 L		150	V	Powder-coated	38130
ZB 9625 V		250	V	Galvanized	38142
ZB 9625 L		250	V	Powder-coated	38140
ZB 9825 V	800	250	V	Galvanized	38282
ZB 9825 L		250	V	Powder-coated	38280



## Anti-lifting clips

The shelves at the cross-brace connecting points have to be fitted with anti-lifting clips in every bay of a shelving row. 1 set = 4 pieces.

Item	Order no.
AS 7000	28730



Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

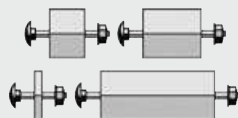
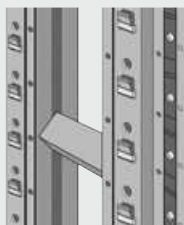
Semi-automated solutions

Logistics systems

Appendix



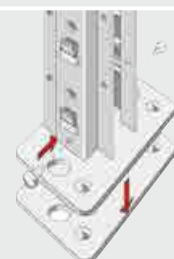
# Shelving components and accessories



## Frame connector

Screw, nut and sleeve. Connects two frames back-to-back with 6, 30, 50 or 100 mm distance.

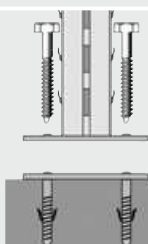
Item	Frame distance (mm)	Order no.
RV 7006	6	29290
RV 7030	30	29220
RV 7050	50	29340
RV 7100	100	29230



## Shim plates

Sheet steel, galvanized. To compensate for slightly uneven ground surfaces.

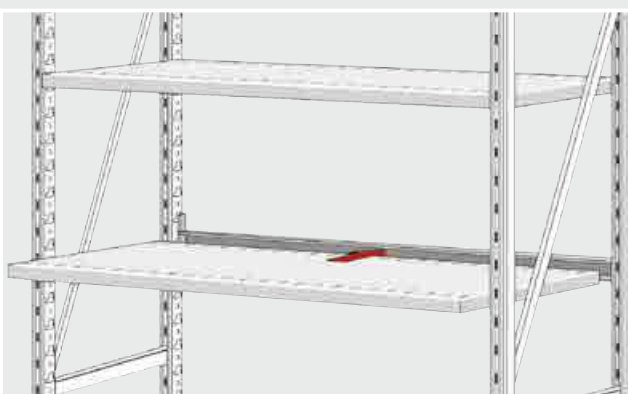
Item	Thickness (mm)	Order no.
UP 7001	1	28980
UP 7002	2	28970
UP 7003	3	28960



## Floor fixing

For anchoring the racks to the floor. Consists of screws, dowels and U washers.

Item	Order no.
BF 7000	29270

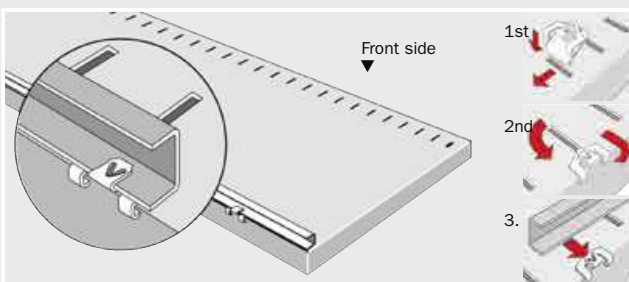


## Horizontal braces

Sheet steel, powder-coated light silver. Used for stiffening shelving rows longitudinally when cross-braces cannot be used because single-sided shelving must be accessible from both sides respectively when long parts must be pushed through in a double-sided bay. Always used with 1 shelf and 2 anti-lifting devices. The interlocking connection with the upright guarantees high rigidity.

Bay load capacity on request!

Item	Bay width (mm)	Order no.
LV 7103	995	28720
LV 7130	1,283	29080



## Back stop

Sheet steel, galvanized. Prevents load carriers or cartons from being pushed through, including 3 clips.

Item	Bay width (mm)	Order no.
DSL 4102	995	27990
DSL 9131	1,283	38190

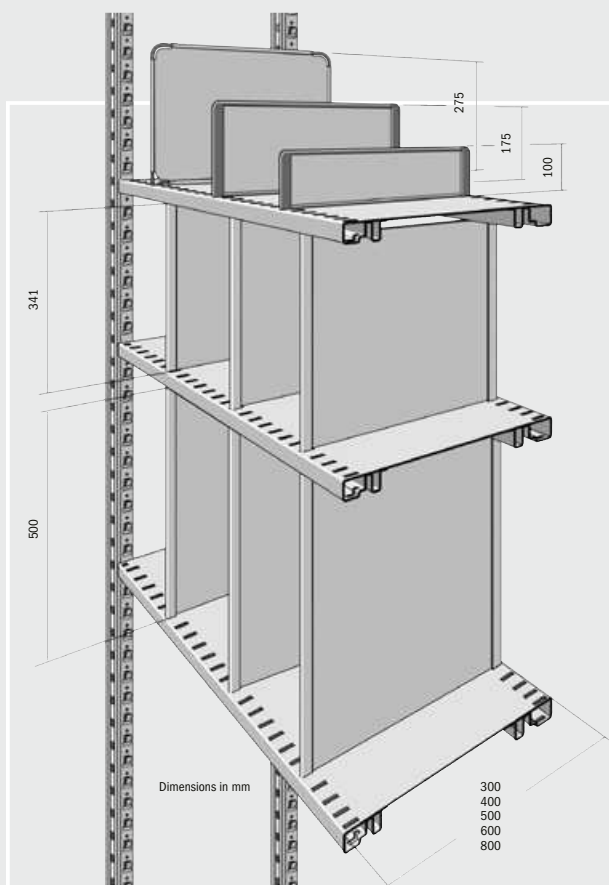


Shelf containers for modular shelvings

from page A10



# The accessories



## Full-height dividers for 30 mm high shelves

Sheet steel, galvanized. For 341 mm and 500 mm compartment heights.

Item	Shelf depth (mm)	Divider height (mm)	Version with	Order no.
TR 4440	400	341		27210
TR 4450		500		27240
TR 4540	500	341		27220
TR 4550		500		27250
TR 4640	600	341		27230
TR 4650		500		27260

## Free-standing dividers for 30 mm high shelves

Sheet steel, galvanized. Inserted into the slots of the shelves independently of the compartment height and can be used in combination with bin fronts.

TRF-K 4410	400	100	Plastic connectors	27310
TRF-K 4417		175	Plastic connectors	27350
TRF-D 4427		275	Wire connectors	27380
TRF-K 4510	500	100	Plastic connectors	27320
TRF-K 4517		175	Plastic connectors	27360
TRF-D 4527		275	Wire connectors	27390
TRF-K 4610	600	100	Plastic connectors	27330
TRF-K 4617		175	Plastic connectors	27370
TRF-D 4627		275	Wire connectors	27400
TRF-D 4810	800	100	Wire connectors	39650
TRF-D 4817		175	Wire connectors	39660

Height elevations using shelves for the shelving height 2,171 mm

2	1.025	3	601	4	495	5	389	6	230	7	177	8	230	10	177	13	177
								5	341	6	288	7	235	9	182	12	129
				3	500	4	394	4	341	5	288	6	235	8	182	11	129
		2	712			3	394	3	341	4	288	5	235	7	182	10	129
				2	500			2	341	3	288	4	235	6	182	9	129
1	1.030					2	394	2	341	2	288	3	235	5	182	8	129
		1	712					1	341	1	288	2	235	4	182	7	129
				1	500		394					1	235	3	182	6	129
						1								2	182	5	129
														1	182	4	129

Height elevations using shelves for the shelving height 4,344 mm

4	1.078	6	548	8	548	10	442	12	177	14	124	16	283	20	230	27	124
								11	243	13	288	15	235	19	182	26	129
		5	712	7	500	9	394	10	243	12	288	14	235	18	182	25	129
						8	394	9	243	11	288	13	235	17	182	24	129
		4	712	6	500	7	394	8	243	10	288	12	235	16	182	23	129
						6	394	7	243	9	288	11	235	15	182	22	129
		3	712	5	500	6	394	8	243	10	288	12	235	14	182	21	129
						5	394	7	243	9	288	11	235	13	182	20	129
		2	712	4	500	5	394	6	243	8	288	10	235	12	182	19	129
						4	394	5	243	7	288	9	235	11	182	18	129
		1	712	3	500	4	394	5	243	6	288	8	235	10	182	17	129
						3	394	4	243	5	288	7	235	9	182	16	129
		2	712	2	500	3	394	4	243	5	288	6	235	8	182	15	129
						2	394	3	243	4	288	5	235	7	182	14	129
		1	712	1	500	2	394	3	243	4	288	5	235	6	182	13	129
						1	394	2	243	3	288	4	235	5	182	12	129
								1	243	2	288	3	235	4	182	11	129
										1	288	2	235	3	182	10	129
												1	235	2	182	9	129
														1	182	8	129

Order no. = on stock

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

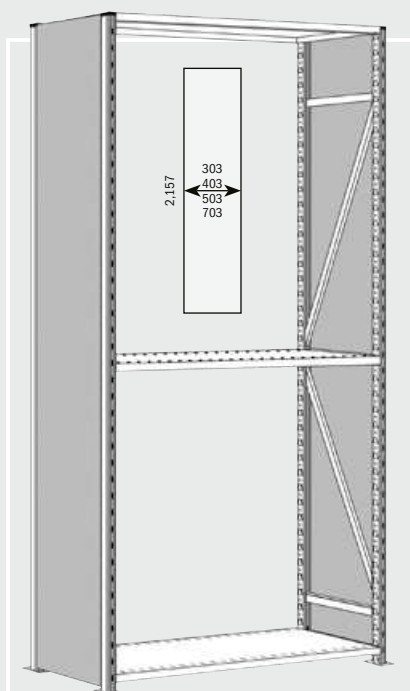
Semi-automated  
solutions

Logistics  
systems

Appendix



## Accessories

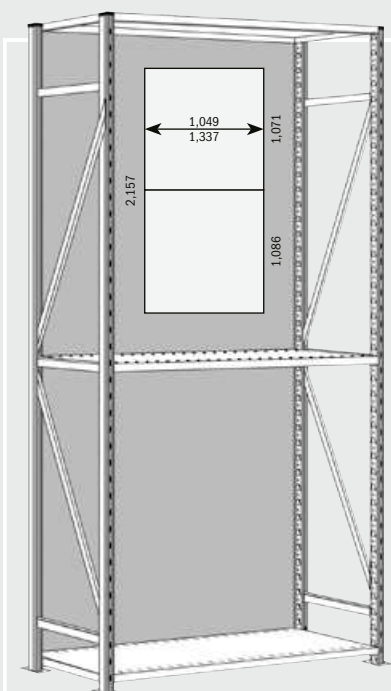


### Sheet steel side panels

Sheet steel, galvanized. The shelving bays can be fitted with sheet steel side panels. At row ends the side panels are attached to the frames by using spreading clamps. Inside shelving rows the side panels are held in place by the shelves. Height 2,157 mm.

**Two sheet steel side panels must be ordered for the 4,344 mm height (e.g. 2x SW 7402).**

Item	Shelf depth (mm)	Order no.
SW 7402	400	28770
SW 7502	500	28780
SW 7602	600	28790
SW 7802	800	28800

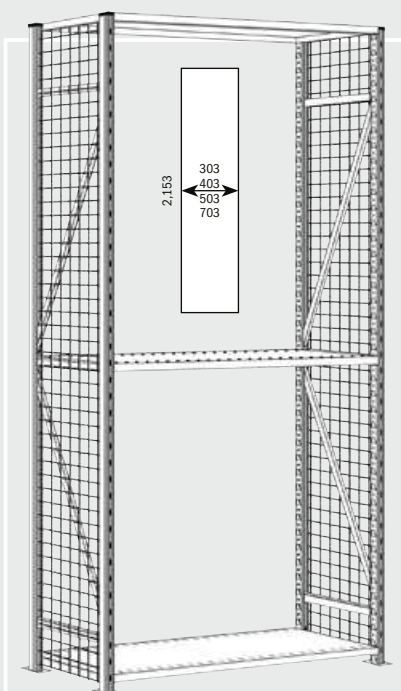


### Sheet steel back panels

Sheet steel, galvanized. The side edge is placed on the shelving upright and fastened in place. Back panel height 1,086 mm.

**Two sheet steel back panels must be ordered for the height 2,171 mm (e.g. 2x RW 7101); 4 back panels must be ordered for the height 4,344 mm (e.g. 4 x RW 7101).**

Item	Bay width (mm)	Order no.
RW 7101	995	28760
RW 7131	1,283	28910

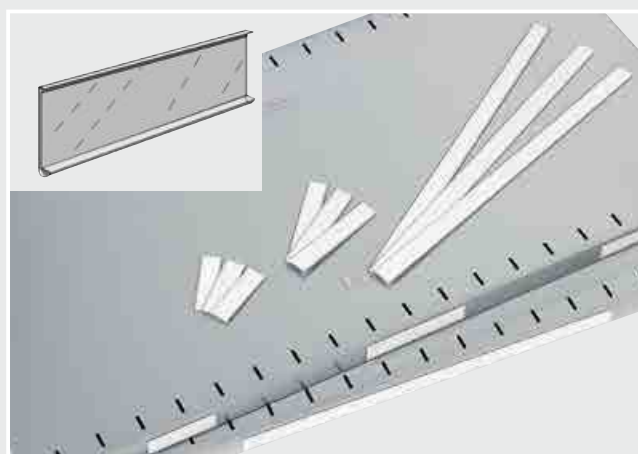


### Mesh side panels

Steel wire, painted light silver. Mesh size 50 x 50 mm, height 2,153 mm. The mesh panels are fastened using 6 spring clips.

**Two mesh steel side panels must be ordered for the 4,344 mm height (e.g. 2x SWG 7402).**

Item	Shelf depth (mm)	Order no.
SWG 7402	400	28820
SWG 7502	500	28830
SWG 7602	600	28840
SWG 7802	800	28850



### Label holder

Self-adhesive, for labeling storage locations.

Item	Length (mm)	PU	Order no.
EH 4085	85	50	27800
EH 4135	135	50	27810
EH 4490	490	50	27820
EH 4980	980	25	26360
EH 9125	1,250	25	26370

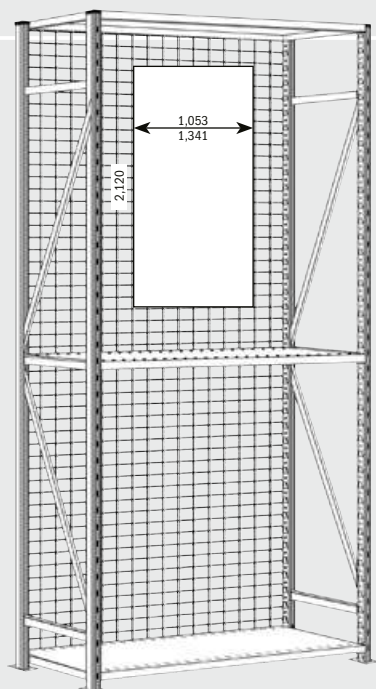
### Labels

Item	Length (mm)	PU	Order no.
EHE 4085	85	100	28050
EHE 4135	135	100	28060
EHE 4490	490	100	28070

Order no. = on stock



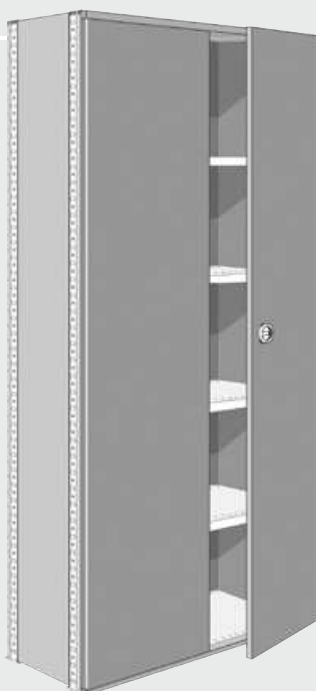
## Accessories

**Mesh back panels**

Steel wire, painted light silver. Mesh size 50 x 50 mm, height 2,120 mm. The panels are fastened using 8 spring clips.

**Two mesh back panels must be ordered for the 4,344 mm height (e.g. 2x RWG 7102).**

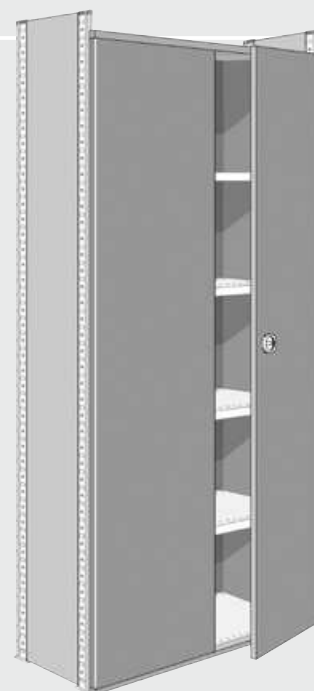
Item	Bay width (mm)	Order no.
RWG 7102	995	28810
RWG 7130	1,283	29190

**Two-wing door**

For subsequent installation in open shelf fields with bay widths 995 and 1,283 mm. Height 2,111 mm.

**The back and side panels must be ordered separately when retrofitting.**

Item	Bay width (mm)	Order no.
FTR 4001	995	27900
FTR 9001	1,283	17690

**Two-wing door for multi-tier installations**

For subsequent installation in open shelf fields with bay widths 995 and 1,283 mm. Height 1,845 mm.

In multi-tier installations with a mezzanine height lower than 2,200 mm, shortened wing doors must be installed above and below the platform. A shelf must be fitted at the corresponding height.

Item	Bay width (mm)	Order no.
FTR-B 4001	995	27910
FTR-B 9001	1,283	17700

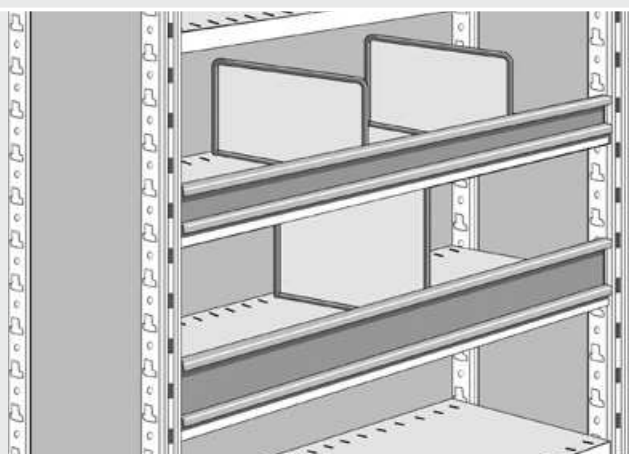
**Drawers**

on request

**Bin fronts**

Sheet steel, galvanized, for storing loose small parts. Particularly useful in conjunction with shelf dividers and side and back panels.

Item	Bay width (mm)	Height (mm)	Order no.
VL 7104	995	40	28870
VL 7108		85	28880
VL 7134	1,283	40	29320
VL 7138		85	29330

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

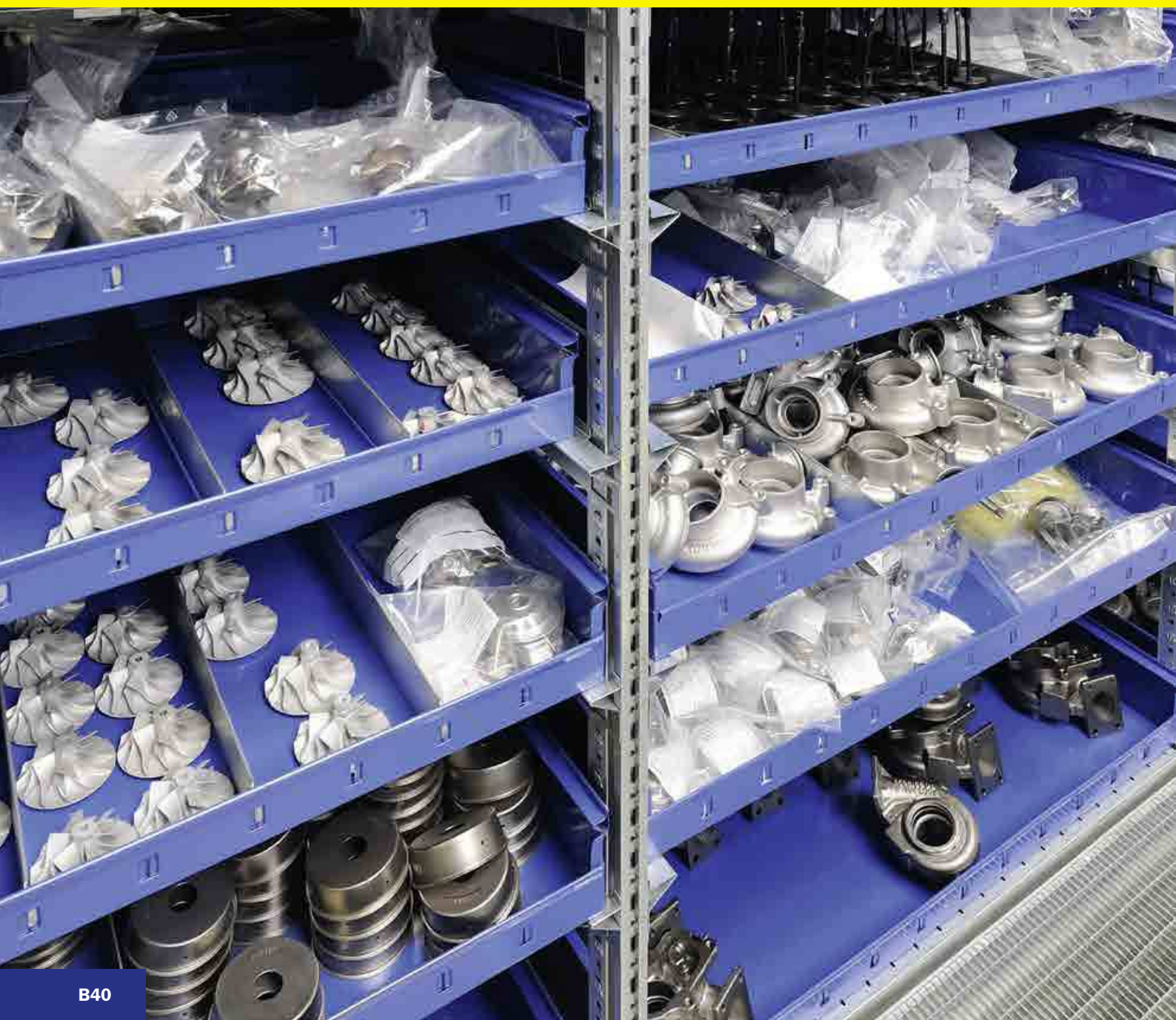
## Accessories for modular shelving systems ...

SSI SCHAEFER's accessories are designed to integrate perfectly into all of the different shelving systems. These accessories are the ideal addition to any shelving system.

Thanks to their coordinated dimensions, these elements can be specifically combined to fit the individual shelving bays independently of their purpose.

Whether high bay racking or multi-tier installation and platform systems, SSI SCHAEFER's accessories create the perfect storage system.

Because all of the parts are a perfect match.





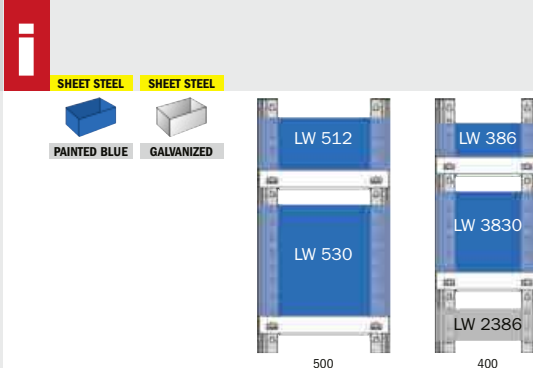
## ... Storage made easy

**Other accessories:**

<b>Shelf containers</b>	from page <b>A10</b>
<b>Storage location labels</b>	from page <b>D20</b>
<b>Stairs, railings and lighting installations</b>	from page <b>F6</b>







## Storage trays for bay width 994/995 mm



### Storage tray LW 386 for shelf depth 400 mm and 800 mm

Steel, painted blue.

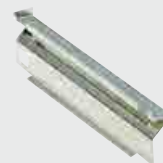
Item		W x D x H (mm)/PU	Order no.
<b>LW 386</b>	LW 386 storage tray	980 x 386 x 120	<b>11260</b>
<b>LWT 386/2386</b>	Divider, galvanized	1 items	<b>18220</b>
<b>AP 4400/4800</b>	Support profile	1 pair	<b>28010</b>
<b>EHK 75</b>	Label holder	W 75 mm, 50 pcs.	<b>15180</b>
<b>EHKE 75</b>	Labels	W 75 mm, 100 pcs.	<b>15190</b>



### Storage tray LW 512 for shelf depth 500 mm and 1,000 mm

Steel, painted blue.

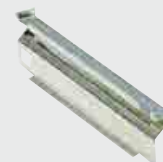
<b>LW 512</b>	LW 512 storage tray	980 x 486 x 120	<b>14670</b>
<b>LWT 512</b>	Divider, galvanized	1 items	<b>14680</b>
<b>AP 4500</b>	Support profile	1 pair	<b>14690</b>
<b>EHK 75</b>	Label holder	W 75 mm, 50 pcs.	<b>15180</b>
<b>EHKE 75</b>	Labels	W 75 mm, 100 pcs.	<b>15190</b>



### Storage tray LW 530 for shelf depth 500 mm and 1,000 mm

Steel, painted blue.

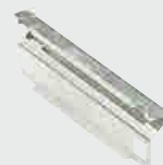
<b>LW 530</b>	LW 530 storage tray	980 x 486 x 300	<b>14650</b>
<b>LWT 530</b>	Divider, galvanized	1 items	<b>14660</b>
<b>AP 4500</b>	Support profile	1 pair	<b>14690</b>
<b>EHK 75</b>	Label holder	W 75 mm, 50 pcs.	<b>15180</b>
<b>EHK 85</b>	Label holder	W 85 mm, 50 pcs.	<b>14610</b>
<b>EHK 135</b>	Label holder	W 135 mm, 50 pcs.	<b>14620</b>
<b>EHKE 75</b>	Labels	W 75 mm, 100 pcs.	<b>15190</b>
<b>EHKE 85</b>	Labels	W 85 mm, 100 pcs.	<b>14630</b>
<b>EHKE 135</b>	Labels	W 135 mm, 100 pcs.	<b>14640</b>



### Storage tray LW 3830 for shelf depth 400 mm and 800 mm

Steel, painted blue. Stackable with LW 386.

<b>LW 3830</b>	LW 3830 storage tray	980 x 386 x 300	<b>11810</b>
<b>LWT 3830</b>	Divider, galvanized	1 items	<b>11820</b>
<b>AP 4400/4800</b>	Support profile	1 pair	<b>28010</b>
<b>EHK 75</b>	Label holder	W 75 mm, 50 pcs.	<b>15180</b>
<b>EHK 85</b>	Label holder	W 85 mm, 50 pcs.	<b>14610</b>
<b>EHKE 75</b>	Labels	W 75 mm, 100 pcs.	<b>15190</b>
<b>EHKE 85</b>	Labels	W 85 mm, 100 pcs.	<b>14630</b>



### Storage tray LW 512-Z for shelf depth 500 mm

Steel, galvanized. For direct attachment to the shelving uprights.

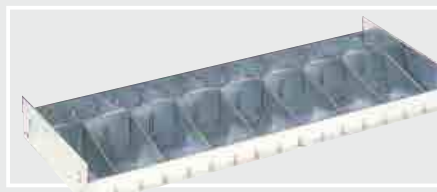
<b>LW 512-Z</b>	LW 512-Z storage tray	981 x 486 x 120	<b>16190</b>
<b>LWT 512-Z</b>	Divider, galvanized	1 items	<b>16250</b>
<b>EHK 75</b>	Label holder	W 75 mm, 50 pcs.	<b>15180</b>
<b>EHKE 75</b>	Labels	W 75 mm, 100 pcs.	<b>15190</b>



### Storage tray LW 2386 for shelf depth 400 mm

Steel, galvanized. For direct attachment to the shelving uprights.

<b>LW 2386</b>	LW 2386 storage tray	980 x 386 x 100	<b>18210</b>
<b>LWT 386/2386</b>	Divider, galvanized	1 items	<b>18220</b>
<b>EHK 75</b>	Label holder	W 75 mm, 50 pcs.	<b>15180</b>
<b>EHKE 75</b>	Labels	W 75 mm, 100 pcs.	<b>15190</b>



### Storage tray LW 2386-M for shelf depth 400 mm

Steel, galvanized. For direct attachment to the shelving uprights.

<b>LW 2386-M</b>	LW 2386-M storage tray	980 x 386 x 100	<b>18280</b>
<b>LWT 2386-M</b>	Divider, galvanized	1 items	<b>18290</b>
<b>EHK 75</b>	Label holder	W 75 mm, 50 pcs.	<b>15180</b>
<b>EHKE 75</b>	Labels	W 75 mm, 100 pcs.	<b>15190</b>

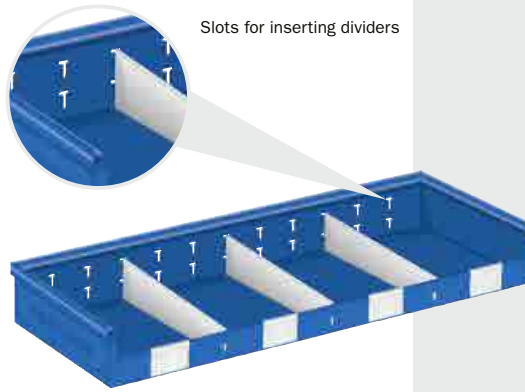
Order no. = on stock

► **Easy assembly**

Stacking rims on the top edge make them stackable. The LW 2386, LW 2386-M and LW 512-Z storage trays are inserted directly into the lugs of the uprights. All other types are placed on the support profiles that are inserted into the lugs of the uprights.

► **The storage trays**

fit into **994/995 mm** wide bays and can be divided into **max. 12 compartments**





## Safety fencing systems

SSI SCHAEFER shelving system and the safety fencing system are designed to match. Universally usable for every application. With a standard element width and fitting field.

All of the wing door variants feature anti-theft protection, are self-closing and prepared for lock cylinders.

A lift-hinged door can be easily converted into a right-hinged door.



### Safety fencing systems

on request



Similar to illustration



Similar to illustration





RAL 1021

RAL 5010

### ► Structural steel mesh

Wire thickness of 4 mm,  
folded at the sides

### ► Mesh size

40 x 40 mm, suitable for machine  
protection as per DIN 31 001,  
Part 1

### ► Surface

High-quality stove-enamel finish

### ► Supports

Made of sturdy U-shaped cold profile  
50/55/3 mm, pre-punched. Pre-drilled  
foot plates for floor fixing, including  
expansion anchors



Similar to illustration

## Comprehensive accessories

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

## Safety fencing system design

### Mesh segments

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### Supports for mesh segments

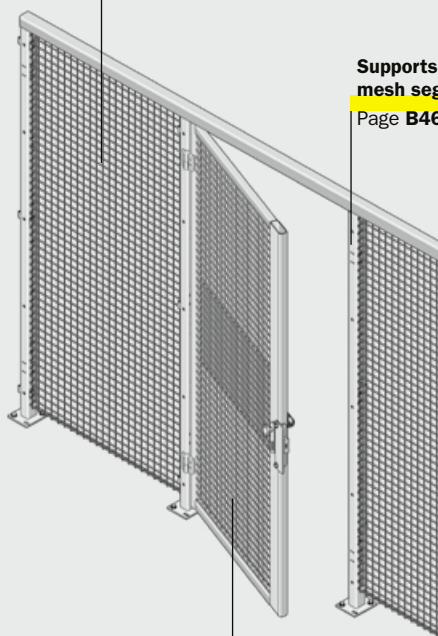
Page B46

### Supports for corner joint

Page B46

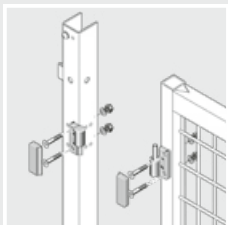
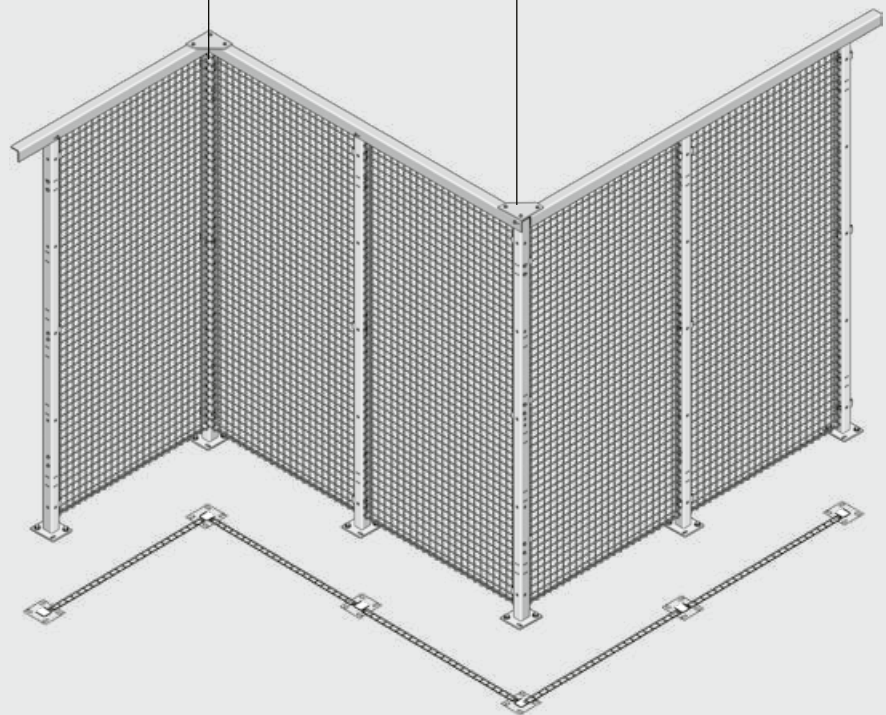
### Top cover bracket

Page B46

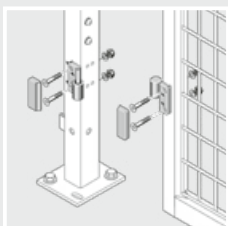


### Wing doors

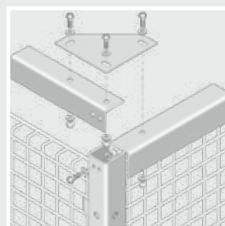
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Top hinge



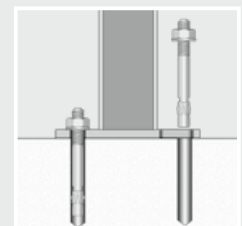
Bottom hinge



Top end strips

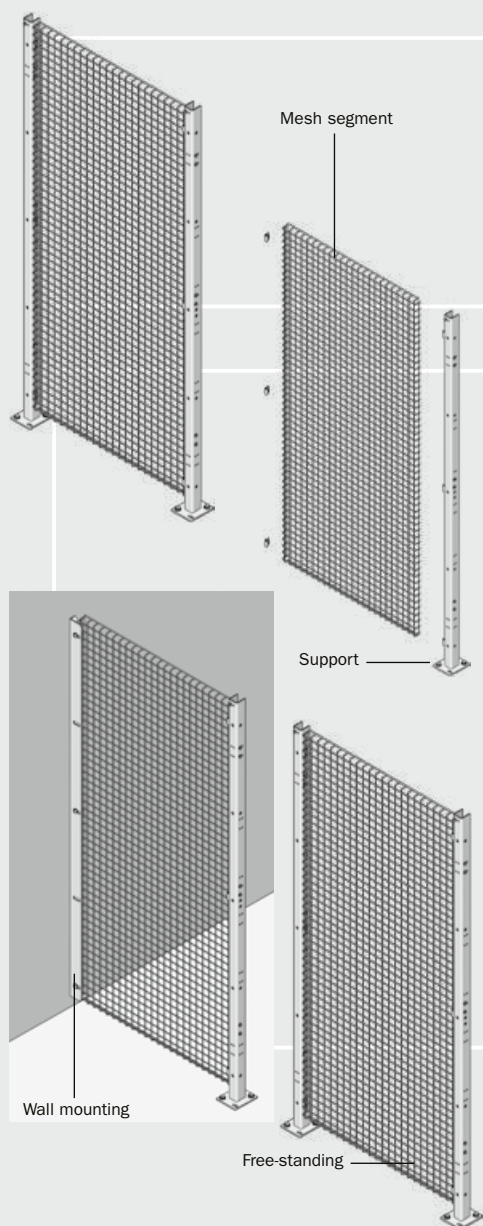


Simple post connection






Floor fixing


# Mesh segments



## Mesh element

Item	W x H (mm)	Order no.		
				
ZAS-GEA 020	150 x 2,086	6689556	6689561	6689566
ZAS-GEA 040	350 x 2,086	6689555	6689560	6689565
ZAS-GEA 060	550 x 2,086	6689554	6689559	6689564
ZAS-GEA 080	750 x 2,086	6689553	6689558	6689563
ZAS-GEA 100	950 x 2,086	6689552	6689557	6689562

## Supports

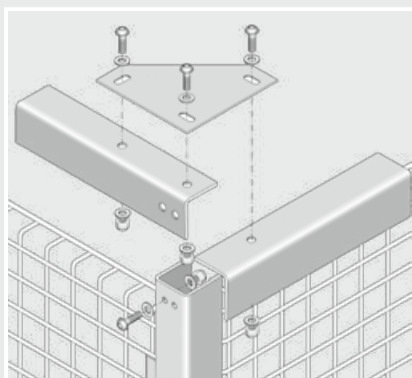
Item	Height (mm)	Order no.		
				
<b>Middle support</b>				
ZAS-SN-2193	2,193	6689450	6689451	6689452
<b>Corner support</b>				
ZAS-ESN-2193	2,193	6689454	6689455	6689456



## Safety fencing systems



on request

# Accessories



## Top cover bracket

Top cover elements made of angled profile 50/50/3 mm are screwed onto the top of the divider supports for stabilization.


Item	L x W x H (mm)	Order no.		
				
ZAS-AW215	2,150 x 50 x 50	6689416	6689417	6689418
ZAS-AW600	6,000 x 50 x 50	6689420	6689421	6689422

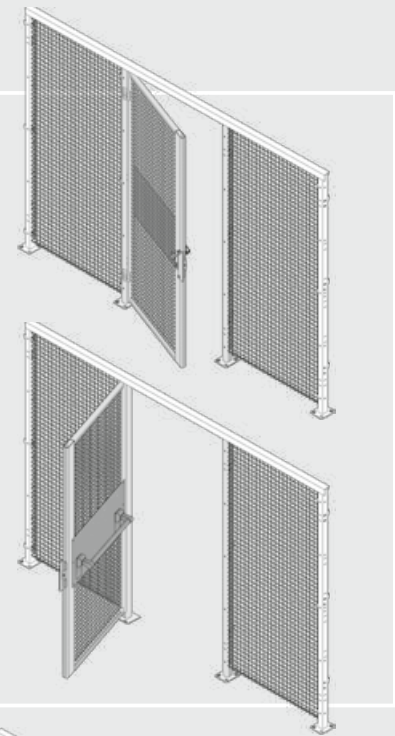
Order no. = on stock



### Single-wing doors

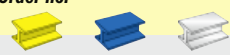
Suitable for DIN "left" and "right". 2 sturdy cover panels at the height of the lock. Includes stop and lock.

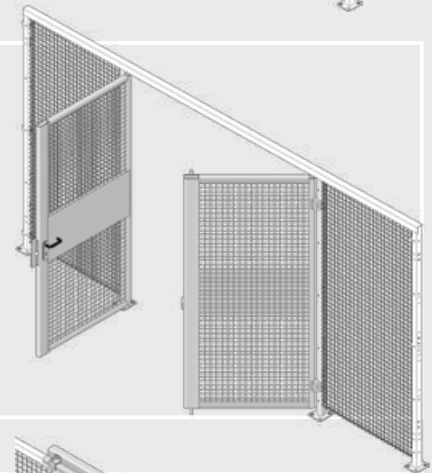
Item	Clearance W x H (mm)	Order no.
		
<b>Prepared for mortise lock</b>		
ZAS-ETG85-ES	850 x 2,070	6689573 6689574 6689575
ZAS-ETG100-ES	1,000 x 2,070	6689585 6689586 6689587
<b>with mortise lock with latch lock</b>		
ZAS-ETG85-ESR	850 x 2,070	6689577 6689578 6689579
ZAS-ETG100-ESR	1,000 x 2,070	6689589 6689590 6689591
<b>with panic lock</b>		
ZAS-ETG85-PS	850 x 2,070	6689581 6689582 6689583
ZAS-ETG100-PS	1,000 x 2,070	6689593 6689594 6689595
<b>with panic bar right</b>		
ZAS-ETGPR85-PS	850 x 2,070	6689458 6689459 6689460
ZAS-ETGPR100-PS	1,000 x 2,070	6689466 6689467 6689468
<b>with panic bar on the left</b>		
ZAS-ETGPL85-PS	850 x 2,070	6689462 6689463 6689464
ZAS-ETGPL100-PS	1,000 x 2,070	6689470 6689471 6689472



### Two-wing doors

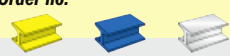
2 sturdy cover panels at the height of the lock. Includes hinges and lock, prepared for on-site installation of a lock cylinder.

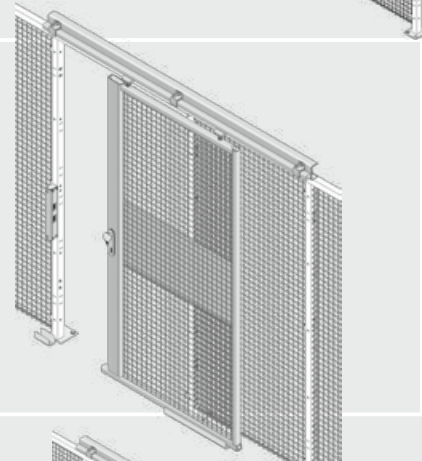
Item	W x H (mm)	Order no.
		
ZAS-ZTG100	2,000 x 2,070	6689597 6689598 6689599



### Sliding door


2 sturdy cover panels at the height of the lock. Includes hinges and lock, prepared for on-site installation of a lock cylinder.

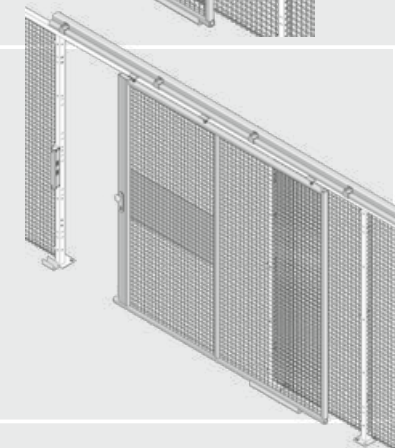
Item	W x H (mm)	Clear entrance width (mm)	Order no.
			
ZAS-STG85	1,110 x 2,110	750	6689510 6689511 6689512



### Sliding door

2 sturdy cover panels at the height of the lock. Includes hinges and lock, prepared for on-site installation of a lock cylinder.

Item	W x H (mm)	Clear entrance width (mm)	Order no.
			
ZAS-STOG198	2,238 x 2,110	1,890	6689519 6689520 6689521

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix





# Shelf ladders and accessories

## ► Installation positions of the guide rails

### R 3000 shelvings: Guide rail height

for shelving height 2,278 mm = 1,756, 1,968 and 2,286 mm;  
for shelving height 2,490 mm = 1,809, 1,968, 2,498 and 2,180 mm;  
for shelving height 2,967 mm = 1,809, 2,445, 2,657 and 2,975 mm

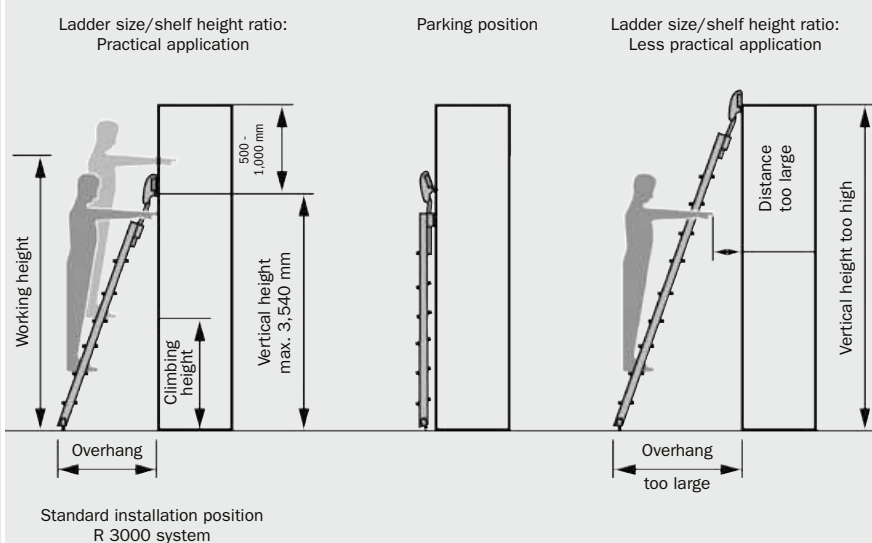
## FRS mobile shelf ladders

Run parallel to the rack. Upper roll fitting retractable, ladder secured against unintended removal and placed against the rack when not in use.

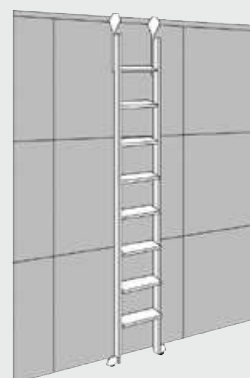
Side rails made of rectangular steel tube with slightly rounded edges. Painted: Gentian Blue, RAL 5010, powder coated.

Upper and lower roll fittings automatically braked during climbing. Low-noise operation due to 2 plastic castors, completely clad, castor Ø 100 mm.

Beech wood steps, clear varnish and with anti-slip grooves. Galvanized fittings. Ladder width 400 mm, step depth 80 mm. Step spacing towards the side rail 250 mm, 235 mm perpendicular.



FRS shelf ladder with guide rail (angled)



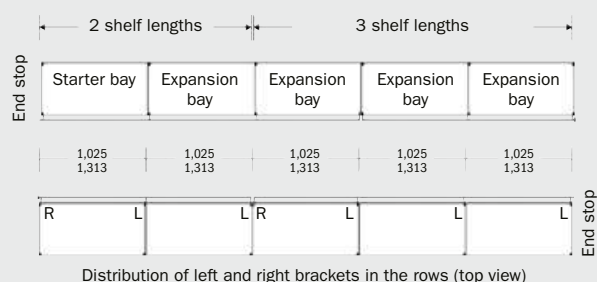
FRS shelf ladder in straight/parking position

Item	Number of steps	f. vertical guide rails height from - to (mm)	Max. working height (mm)	Max. climbing height (mm)	Overhang approx. (mm)	Order no.
FRS 0	6	1,810 - 2,080	2,210	710	720	2035250
FRS 1	7	2,060 - 2,320	2,440	940	810	2035251
FRS 2	8	2,320 - 2,550	2,680	1,180	890	2035252
FRS 3	9	2,550 - 2,790	2,920	1,420	970	2035253
FRS 4	10	2,790 - 3,060	3,150	1,650	1,050	2035254
FRS 5	11	3,060 - 3,330	3,390	1,890	1,160	2035255
FRS 6	12	3,330 - 3,540	3,620	2,120	1,240	2035256
FRS 7	13	3,540 - 3,770	3,860	2,360	1,330	2035257

## Guide rails

Made of angled steel with brackets for mounting on the shelving uprights. Can be used for any rack length. The guide rails are supplied for 2 or 3 shelf lengths with brackets.

A bracket is fitted at the top of each shelving upright. A left and right bracket is required where two guide rails abut.



Distribution of left and right brackets in the rows (top view)

Item	Bay width (mm)	Shelf length Number	Order no.
For R 3000 shelving (installed on the rack uprights)			
LS 3102	994	2	145100
LS 3103		3	145110
LS 3132	1,282	2	145120
LS 3133		3	145130
LS-E	End stop, for installation at the beginning and end		10870

Order no. = on stock

# Shelf ladders and accessories

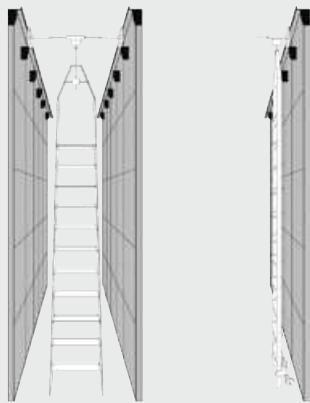
## FRD mobile shelf ladders

Runs in 2 rails between the shelving rows that can be pushed sideways. Upper and lower roll fittings automatically braked during climbing. Low-noise operation due to plastic castors, castor Ø 100 mm. After releasing the spring latch on the retaining bracket, the ladder can be rotated 360° via the castor head and the climbed on both sides. The ladder can be hung from the top carriage and moved.

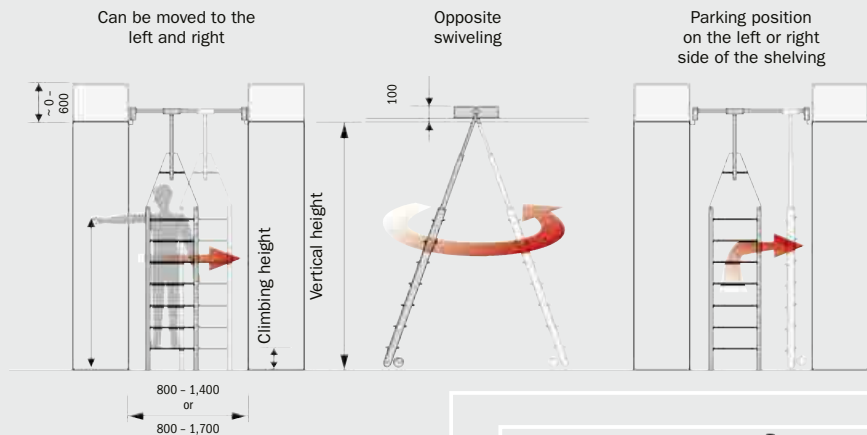
Side rails made of rectangular steel tube with slightly rounded edges. Painted: Gentian Blue, RAL 5010, powder coated.

For aisle widths of up to 1,400 mm with the guide tube for transverse movement; for aisle widths up to 1,700 mm with transverse swivel castors for transverse movement.

Beech wood steps, clear varnish and with anti-slip grooves. Galvanized fittings. Ladder width 400 mm, step depth 80 mm. Step spacing towards the side rail 250 mm, 235 mm perpendicular.



FRD shelf ladder in the guide rails and the swiveled onto the shelving



With guide tube – for aisle widths up to 1,400 mm



With transverse swivel castors – for aisle widths up to 1,700 mm

Item	Number of steps	f. vertical guide rails height from – to (mm)	Max. working height (mm)	Max. climbing height (mm)	Order no.
<b>For aisle widths of up to 1,400 mm – with guide tube</b>					
FRD 1-14	5	1,910 – 2,060	1,970	470	2035258
FRD 2-14	6	2,140 – 2,290	2,210	710	2035259
FRD 3-14	7	2,380 – 2,530	2,440	940	2035260
FRD 4-14	8	2,610 – 2,760	2,680	1,180	2035261
FRD 5-14	9	2,850 – 3,000	2,920	1,420	2035262
FRD 6-14	10	3,080 – 3,230	3,150	1,650	2035263
FRD 7-14	11	3,320 – 3,470	3,390	1,890	2035264
FRD 8-14	12	3,550 – 3,700	3,620	2,120	2035265
FRD 9-14	13	3,790 – 3,940	3,860	2,360	2035266
<b>For aisle widths of up to 1,700 mm – with transverse swivel castors</b>					
FRD 1-17	5	1,970 – 2,120	1,970	470	2035267
FRD 2-17	6	2,210 – 2,360	2,210	710	2035268
FRD 3-17	7	2,440 – 2,590	2,440	940	2035269
FRD 4-17	8	2,680 – 2,830	2,680	1,180	2035270
FRD 5-17	9	2,910 – 3,060	2,920	1,420	2035271
FRD 6-17	10	3,150 – 3,300	3,150	1,650	2035272
FRD 7-17	11	3,380 – 3,530	3,390	1,890	2035273
FRD 8-17	12	3,620 – 3,770	3,620	2,120	2035274
FRD 9-17	13	3,850 – 4,000	3,860	2,360	2035275



### Hand grip

Made of steel tube, galvanized. Can be screwed onto the top of the side rails. Usable length of approx. 500 mm. Self assembly.

Item	for ladders	Order no.
FRS-HG	FRS	16310



### Handrails

Made of steel tube, galvanized. Clamped on the left and right side of the side rails. Angled toward the outside, creating more freedom of movement on the ladder. Self assembly.

Item	for ladders	Order no.
FR-HL 1	FRS 0+1 / FRD 1-3	16311
FR-HL 2	FRS 2-4 / FRD 4-6	16312
FR-HL 3	FRS 5-7 / FRD 7-9	16313

**i** Further information about shelf ladders and accessories is available

on request

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix



RAL 5010



RAL 6011



RAL 7035



RAL 9006



RAL 9003

# Rolling platform and step ladders, accessories

## FPR rolling platform ladders

Side rails made of rectangular steel tube with rounded edges, Gentian Blue RAL 5010, powder-coated. Steps made of beech, clear varnish.

Step depth 150 mm.  
Ascent inclination 60°.  
Platform 600 x 800 mm.  
Can be climbed on both sides.  
With 4 swivel castors, Ø 125 mm.  
Automatically braked when under load. For use in interior areas.



Item	Height* (mm)	Number of steps*	Base area W x L (mm)	Order no.
FPR 0	730	3	750 x 1,500	2035281
FPR 1	970	4	800 x 1,770	2035280
FPR 1.1	1,210	5	850 x 2,050	2035282
FPR 2	1,450	6	900 x 2,330	2035283
FPR 3	1,690	7	950 x 2,600	2035284

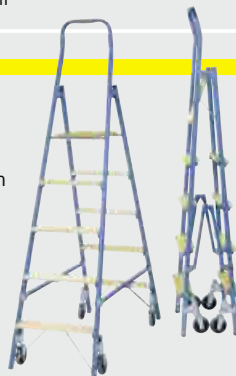
\* Incl. platform

## FSZ platform step ladders

Side rails made of rectangular steel tube with rounded edges, Gentian Blue RAL 5010, powder-coated. Steps and safety bridge made of beech, clear varnish, folding. Automatically braked when under load.

Can be climbed on both sides. Can be folded together using locking spreader.

Dimensions: Step depth 80 mm, Step spacing 250 mm, Castors Ø 100 mm.



Item	Height (mm)	Number of steps*	Side rail length (mm)	Order no.
<b>with 4 brake castors – can be moved longitudinally</b>				
FSZ 1-4B	940	4	1,540	2035285
FSZ 11-4B	1,180	5	1,780	2035286
FSZ 2-4B	1,410	6	2,010	2035287
FSZ 21-4B	1,650	7	2,250	2035288
<b>with 2 brake and 2 swivel castors – can move around curves</b>				
FSZ 1-2B	940	4	1,540	2035276
FSZ 11-2B	1,180	5	1,780	2035277
FSZ 2-2B	1,410	6	2,010	2035278
FSZ 21-2B	1,650	7	2,250	2035279

\* Incl. safety bridge

## Hand grips for FSZ step ladders

For easy lifting and moving, galvanized.



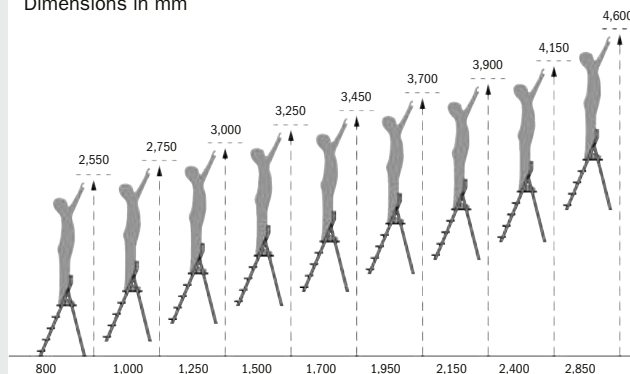
Item	for ladders	Order no.
FSZ-HG	FSZ	16314

## Rolling platform ladders

- **Side rails**  
made of rectangular light steel tube with rounded edges
- **Can be climbed on both sides**
- **Automatic braking**
- **Easy movement**  
due to large castors (Ø 125 mm)
- **High standard of safety**  
due to platform railing 2 sides with knee and foot rail, excellent stability

## Maximum working heights

Dimensions in mm



## FSZ 3 platform step ladders

Like the FSZ, but with 2 lifting rollers.

Hand grip are not included in the scope of delivery. Please order separately – see below.

Dimensions: Step depth 80 mm, Step spacing 250 mm, Castors Ø 100 mm.



Item	Height (mm)	Number of steps*	Side rail length (mm)	Order no.
<b>with 2 lifting rollers – moved similar to a wheelbarrow</b>				
FSZ 3-2 HR	1,880	3	2,480	2035289
FSZ 4-2 HR	2,120	4	2,720	2035290
FSZ 5-2 HR	2,350	5	2,950	2035291
FSZ 6-2 HR	2,820	6	3,420	2035292

\* Incl. safety bridge

## Shelf for FSZ step ladders

Attached to the safety bracket, with roll edge.



Item	for ladders	Order no.
FSZ-AB	FSZ	16315

Order no. = on stock





Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix



# Longspan racking systems



Storage and order picking are becoming increasingly complex due to the growing diversity of products.

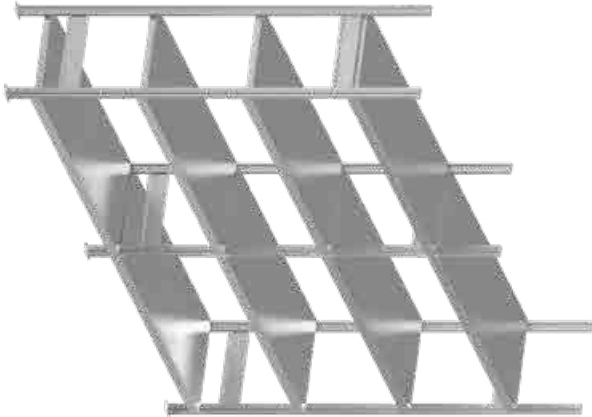
Wherever the very high load capacities of a pallet racking are not required, SSI SCHAEFER's longspan racking systems easily handle your individual needs for optimized storage technology while creating extensive warehousing space with only a small footprint. In particular, they simplify the storage of bulky goods.

**i** Information regarding **inspection requirements**  
for **rack systems**

Chapter J, page J1

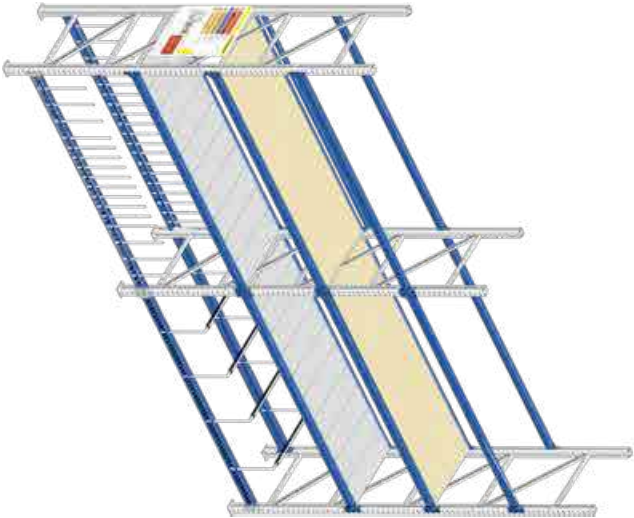






WR 3000 longspan racking

page C4





WR 600 longspan racking

page C8





# Overview of longspan racking systems

	WR 3000 longspan racking	WR 600 longspan racking
Areas of use	Storage of large, light and medium weight goods.	Storage of large and heavy goods.
Advantages	<ul style="list-style-type: none"> <li>▶ Easy to assemble</li> <li>▶ Flexibility due to quick adjustment</li> <li>▶ Expandable with components from the R 3000 modular shelving</li> </ul>	<ul style="list-style-type: none"> <li>▶ Extensive compartment equipment</li> <li>▶ Covers diverse areas of application</li> <li>▶ Expandable at any time</li> </ul>
System	▶ Frame system with plug-in design for rapid assembly	▶ Frame system with plug-in design for rapid assembly
Design	▶ Frame system, 4 bay widths, 4 rack depths, various construction heights	▶ Frame system, 4 bay widths, 4 rack depths, various construction heights
Load-bearing capacity	▶ Up to max. 2,000 kg per rack bay	▶ Up to max. 3,500 kg per rack bay
System layout	▶ 53 mm adjustment steps	▶ 50 mm adjustment steps
Frame surface	▶ Galvanized	▶ Galvanized
Beam surface	▶ Galvanized	▶ Galvanized/painted with RAL 5010
		
	<b>C4</b>	<b>C8</b>

from pages

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix

# WR 3000 upright frame and accessories

## Upright frame

The upright profiles are made from cold-rolled, high-strength, galvanized steel and are connected by horizontal steel braces to create a stable frame.



### Frame height 1,960 mm

Item	Frame depth (mm)	Order no.
RR 34319-V-M	400	6671806
RR 35319-V-M	500	6671807
RR 36319-V-M	600	6671808
RR 38319-V-M	800	6671809

### Frame height 2,278 mm

Item	Frame depth (mm)	Order no.
RR 34322-V-M	400	6671816
RR 35322-V-M	500	6671817
RR 36322-V-M	600	6671818
RR 38322-V-M	800	6671819

### Frame height 2,490 mm

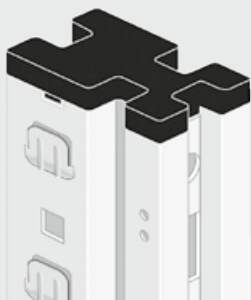
Item	Frame depth (mm)	Order no.
RR 34325-V-M	400	6671821
RR 35325-V-M	500	6671822
RR 36325-V-M	600	6671823
RR 38325-V-M	800	6671824

### Frame height 2,967 mm

Item	Frame depth (mm)	Order no.
RR 34530-V-M	400	6671841
RR 35530-V-M	500	6671842
RR 36530-V-M	600	6671843
RR 38530-V-M	800	6671844

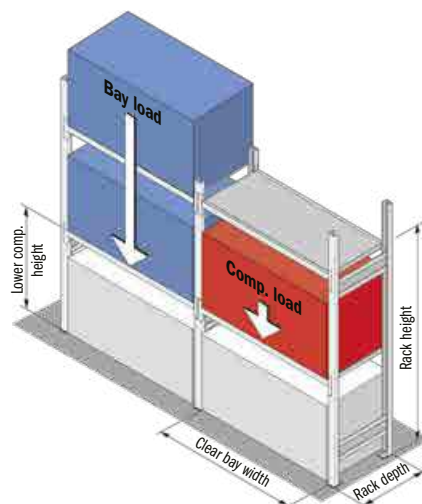
## End cap

High-quality black plastic. Attached to the rack frames as an end piece.



Item	Order no.
AK 3000	147130

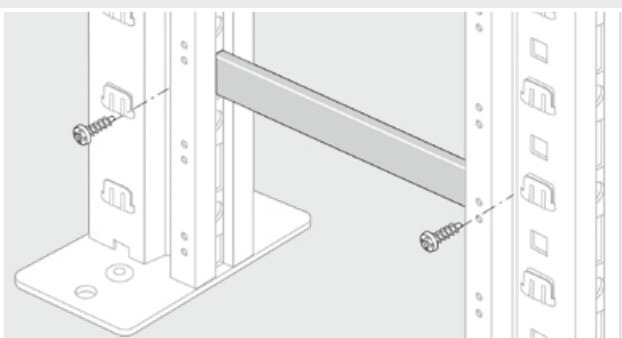
- **High load capacity**  
of up to 2,000 kg per frame
- **Large shelf compartment**  
for large-volume goods, consisting of rack frame, longitudinal beams and shelves
- **Expansion system**  
3 bay widths, 4 rack depths, various construction heights
- **System hole pattern**  
with adjustment spacing 53 : 53 mm
- **Extensive accessories**  
compatible with R 3000 modular shelvings (chapter B)



## Load-bearing capacity of the frame

Rack height	1,960 mm	2,278 mm	2,490 mm	2,967 mm
Bay width	Frame load capacity			
1,988 mm	1,600 kg	1,600 kg	1,600 kg	2,000 kg
2,276 mm	1,500 kg	1,500 kg	1,500 kg	2,000 kg
2,564 mm	1,250 kg	1,250 kg	1,250 kg	1,800 kg

Condition: max. height of lower compartment 200 mm,  
max. compartment height 600 mm



## Frame connector

Sheet steel, galvanized. For connecting 2 rack bays back-to-back in a row. Incl. fixing kit.

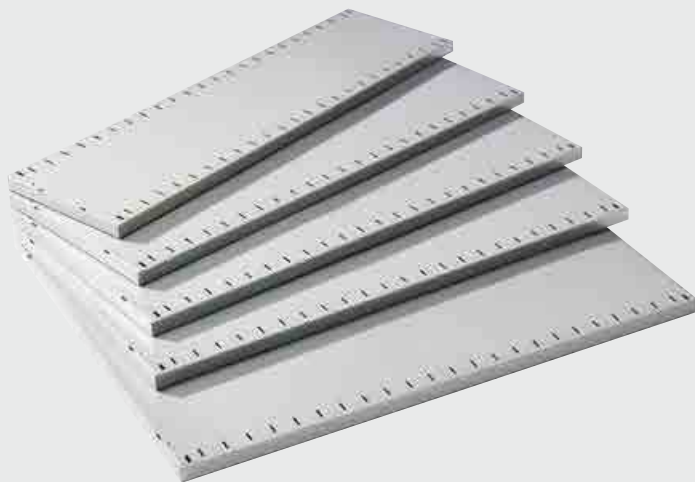
Item	Frame distance (mm)	Order no.
RV 3030	30	147090
RV 3050	50	147100
RV 3100	100	147110
RV 3300	300	147120

Order no. = on stock





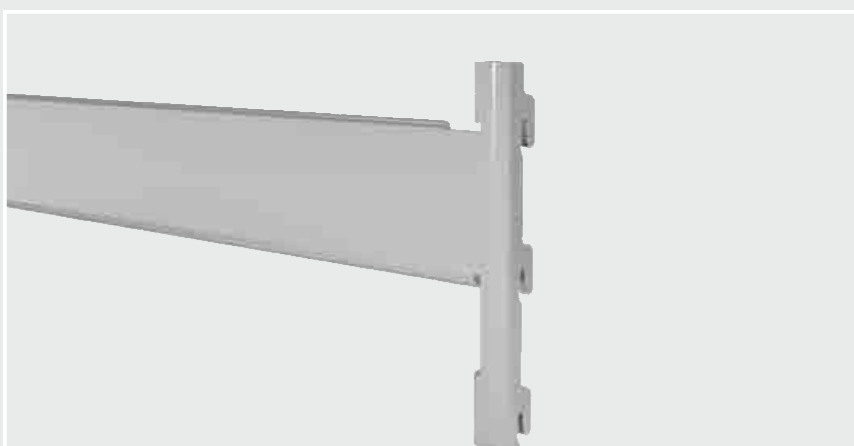
## WR 3000 accessories



### Shelves

Sheet steel, galvanized. The load values apply only in combination with longitudinal beams.

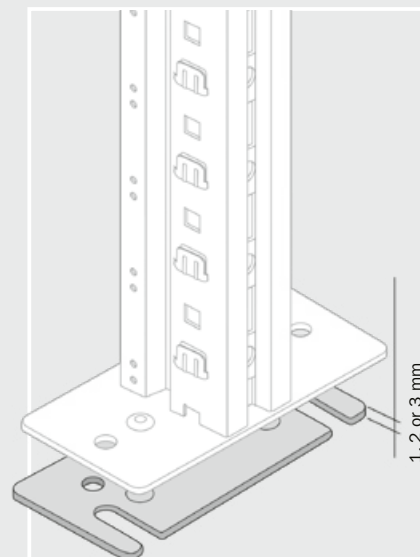
Item	Frame depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
ZB 341010 V	400	994	200	145510
ZB 341315 V		1,282	200	145540
ZB 351010 V	500	994	200	145520
ZB 351315 V		1,282	200	145550
ZB 361010 V	600	994	200	145530
ZB 331315 V		1,282	200	145560
ZB 381020 V	800	994	200	145600
ZB 381325 V		1,282	200	145630



### Longitudinal beams

Sheet steel, galvanized.

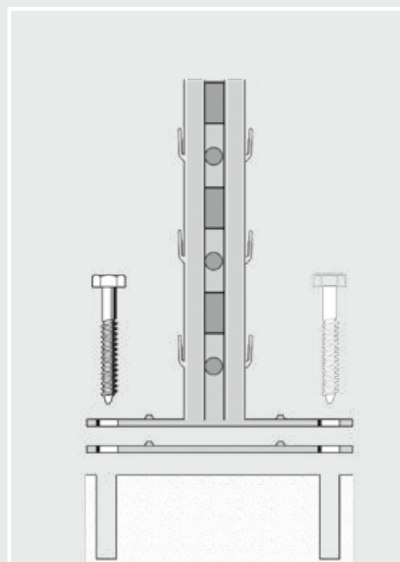
Item	Clear bay width (mm)	Max. load per compartment (kg)	Order no.
WR-LTR 3206 V	1,994	400	6670756
WR-LTR 3236 V	2,282	400	6670757
WR-LTR 3256 V	2,570	400	6670758



### Shim plates

Sheet steel, galvanized. To compensate for slightly uneven ground surfaces.

Item	Thickness (mm)	Order no.
UP3001-V	1	6671710
UP3002-V	2	6671711
UP3003-V	3	6671712



### Floor fixing

Screw anchor for anchoring the racks to the floor.

Item	Order no.
HUS3-H6x60	6671728

# WR 3000 individual racking



## Complete WR 3000 rack bays with 3 compartment levels 1,960 mm high (Starter bays)

2 pre-assembled frames, 6 longitudinal beams, 6 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34319203 G	400	1,994	1,600	6670683
WR 34319233 G		2,282	1,500	6670699
WR 34319253 G		2,570	1,250	6670715
WR 35319203 G	500	1,994	1,600	6670684
WR 35319233 G		2,282	1,500	6670700
WR 35319253 G		2,570	1,250	6670716
WR 36319203 G	600	1,994	1,600	6670685
WR 36319233 G		2,282	1,500	6670701
WR 36319253 G		2,570	1,250	6670717
WR 38319203 G	800	1,994	1,600	6670686
WR 38319233 G		2,282	1,500	6670702
WR 38319253 G		2,570	1,250	6670718

## Expansion bays

1 pre-assembled frame, 6 longitudinal beams, 6 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34319203 A	400	1,994	1,600	6670731
WR 34319233 A		2,282	1,500	6670747
WR 34319253 A		2,570	1,250	6670832
WR 35319203 A	500	1,994	1,600	6670732
WR 35319233 A		2,282	1,500	6670748
WR 35319253 A		2,570	1,250	6670833
WR 36319203 A	600	1,994	1,600	6670733
WR 36319233 A		2,282	1,500	6670749
WR 36319253 A		2,570	1,250	6670834
WR 38319203 A	800	1,994	1,600	6670734
WR 38319233 A		2,282	1,500	6670750
WR 38319253 A		2,570	1,250	6670835

## Additional compartment levels

2 longitudinal beams, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per comp. (kg)	Order no.
WR-ZE 3420	400	1,994	400	6670798
WR-ZE 3423		2,282	400	6670802
WR-ZE 3425		2,570	400	6670806
WR-ZE 3520	500	1,994	400	6670799
WR-ZE 3523		2,282	400	6670803
WR-ZE 3525		2,570	400	6670807
WR-ZE 3620	600	1,994	400	6670800
WR-ZE 3623		2,282	400	6670804
WR-ZE 3625		2,570	400	6670808
WR-ZE 3820	800	1,994	400	6670801
WR-ZE 3823		2,282	400	6670805
WR-ZE 3825		2,570	400	6670809



## Complete WR 3000 rack bays with 3 compartment levels 2,278 mm high (Starter bays)

2 pre-assembled frames, 6 longitudinal beams, 6 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34322203 G	400	1,994	1,600	6670687
WR 34322233 G		2,282	1,500	6670703
WR 34322253 G		2,570	1,250	6670719
WR 35322203 G	500	1,994	1,600	6670688
WR 35322233 G		2,282	1,500	6670704
WR 35322253 G		2,570	1,250	6670720
WR 36322203 G	600	1,994	1,600	6670689
WR 36322233 G		2,282	1,500	6670705
WR 36322253 G		2,570	1,250	6670721
WR 38322203 G	800	1,994	1,600	6670690
WR 38322233 G		2,282	1,500	6670706
WR 38322253 G		2,570	1,250	6670722

## Expansion bays

1 pre-assembled frame, 6 longitudinal beams, 6 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34322203 A	400	1,994	1,600	6670735
WR 34322233 A		2,282	1,500	6670751
WR 34322253 A		2,570	1,250	6670836
WR 35322203 A	500	1,994	1,600	6670736
WR 35322233 A		2,282	1,500	6670752
WR 35322253 A		2,570	1,250	6670837
WR 36322203 A	600	1,994	1,600	6670737
WR 36322233 A		2,282	1,500	6670753
WR 36322253 A		2,570	1,250	6670838
WR 38322203 A	800	1,994	1,600	6670738
WR 38322233 A		2,282	1,500	6670754
WR 38322253 A		2,570	1,250	6670839

## Additional compartment levels

2 longitudinal beams, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per comp. (kg)	Order no.
WR-ZE 3420	400	1,994	400	6670798
WR-ZE 3423		2,282	400	6670802
WR-ZE 3425		2,570	400	6670806
WR-ZE 3520	500	1,994	400	6670799
WR-ZE 3523		2,282	400	6670803
WR-ZE 3525		2,570	400	6670807
WR-ZE 3620	600	1,994	400	6670800
WR-ZE 3623		2,282	400	6670804
WR-ZE 3625		2,570	400	6670808
WR-ZE 3820	800	1,994	400	6670801
WR-ZE 3823		2,282	400	6670805
WR-ZE 3825		2,570	400	6670809

Order no. = on stock

## WR 3000 individual racking


**Complete WR 3000 rack bays with  
4 compartment levels 2,490 mm high (Starter bays)**

2 pre-assembled frames, 8 longitudinal beams, 8 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34325204 G	400	1,994	1,600	6670691
WR 34325234 G		2,282	1,500	6670707
WR 34325254 G		2,570	1,250	6670723
WR 35325204 G	500	1,994	1,600	6670692
WR 35325234 G		2,282	1,500	6670708
WR 35325254 G		2,570	1,250	6670724
WR 36325204 G	600	1,994	1,600	6670693
WR 36325234 G		2,282	1,500	6670709
WR 36325254 G		2,570	1,250	6670725
WR 38325204 G	800	1,994	1,600	6670694
WR 38325234 G		2,282	1,500	6670710
WR 38325254 G		2,570	1,250	6670726

**Expansion bays**

1 pre-assembled frame, 8 longitudinal beams, 8 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34325204 A	400	1,994	1,600	6670739
WR 34325234 A		2,282	1,500	6670824
WR 34325254 A		2,570	1,250	6670840
WR 35325204 A	500	1,994	1,600	6670740
WR 35325234 A		2,282	1,500	6670825
WR 35325254 A		2,570	1,250	6670841
WR 36325204 A	600	1,994	1,600	6670741
WR 36325234 A		2,282	1,500	6670826
WR 36325254 A		2,570	1,250	6670842
WR 38325204 A	800	1,994	1,600	6670742
WR 38325234 A		2,282	1,500	6670827
WR 38325254 A		2,570	1,250	6670843

**Additional compartment levels**

2 longitudinal beams, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per comp. (kg)	Order no.
WR-ZE 3420	400	1,994	400	6670798
WR-ZE 3423		2,282	400	6670802
WR-ZE 3425		2,570	400	6670806
WR-ZE 3520	500	1,994	400	6670799
WR-ZE 3523		2,282	400	6670803
WR-ZE 3525		2,570	400	6670807
WR-ZE 3620	600	1,994	400	6670800
WR-ZE 3623		2,282	400	6670804
WR-ZE 3625		2,570	400	6670808
WR-ZE 3820	800	1,994	400	6670801
WR-ZE 3823		2,282	400	6670805
WR-ZE 3825		2,570	400	6670809


**Complete WR 3000 rack bays with  
5 compartment levels 2,967 mm high (Starter bays)**

2 pre-assembled frames, 10 longitudinal beams, 10 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34530205 G	400	1,994	2,000	6670695
WR 34530235 G		2,282	2,000	6670711
WR 34530255 G		2,570	1,800	6670727
WR 35530205 G	500	1,994	2,000	6670696
WR 35530235 G		2,282	2,000	6670712
WR 35530255 G		2,570	1,800	6670728
WR 36530205 G	600	1,994	2,000	6670697
WR 36530235 G		2,282	2,000	6670713
WR 36530255 G		2,570	1,800	6670729
WR 38530205 G	800	1,994	2,000	6670698
WR 38530235 G		2,282	2,000	6670714
WR 38530255 G		2,570	1,800	6670730

**Expansion bays**

1 pre-assembled frame, 10 longitudinal beams, 10 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34530205 A	400	1,994	2,000	6670743
WR 34530235 A		2,282	2,000	6670828
WR 34530255 A		2,570	1,800	6670844
WR 35530205 A	500	1,994	2,000	6670744
WR 35530235 A		2,282	2,000	6670829
WR 35530255 A		2,570	1,800	6670845
WR 36530205 A	600	1,994	2,000	6670745
WR 36530235 A		2,282	2,000	6670830
WR 36530255 A		2,570	1,800	6670846
WR 38530205 A	800	1,994	2,000	6670746
WR 38530235 A		2,282	2,000	6670831
WR 38530255 A		2,570	1,800	6670847

**Additional compartment levels**

2 longitudinal beams, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per comp. (kg)	Order no.
WR-ZE 3420	400	1,994	400	6670798
WR-ZE 3423		2,282	400	6670802
WR-ZE 3425		2,570	400	6670806
WR-ZE 3520	500	1,994	400	6670799
WR-ZE 3523		2,282	400	6670803
WR-ZE 3525		2,570	400	6670807
WR-ZE 3620	600	1,994	400	6670800
WR-ZE 3623		2,282	400	6670804
WR-ZE 3625		2,570	400	6670808
WR-ZE 3820	800	1,994	400	6670801
WR-ZE 3823		2,282	400	6670805
WR-ZE 3825		2,570	400	6670809

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

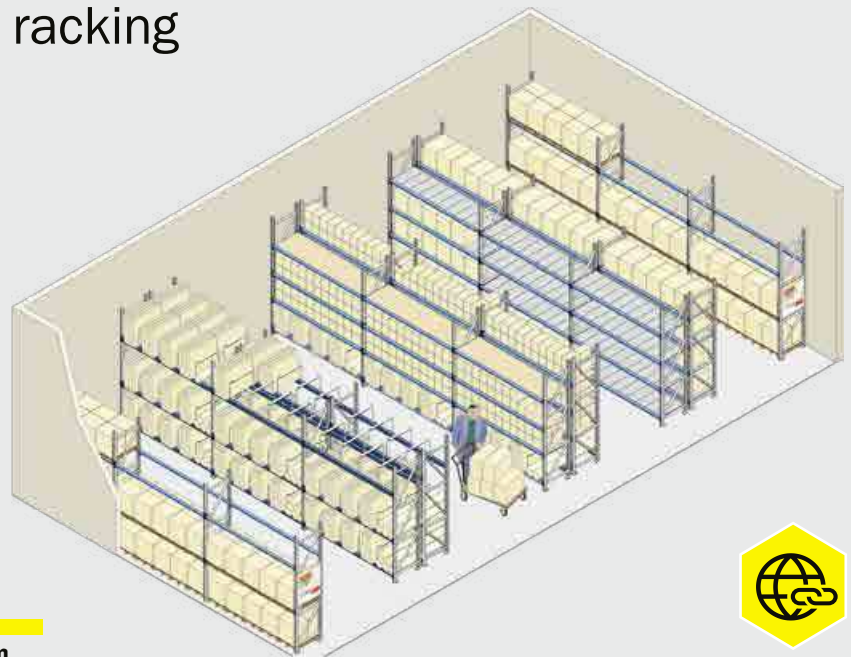


## WR 600 – the perfect longspan racking

The flexible WR 600 longspan racking system with 50 : 50 mm system hole pattern handles all storage material location and warehousing tasks.

The frame construction with supporting profiles with three heights and four depths, three different beam types with four lengths allows you to freely configure the rack bays.

Standardized components allow a multi-tier installation. This also enables the construction of platforms.



**i** Changed frame depth in 2021  
for **WR 600** from 1,050 mm to **1,100 mm**

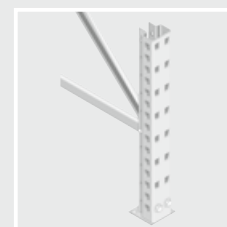
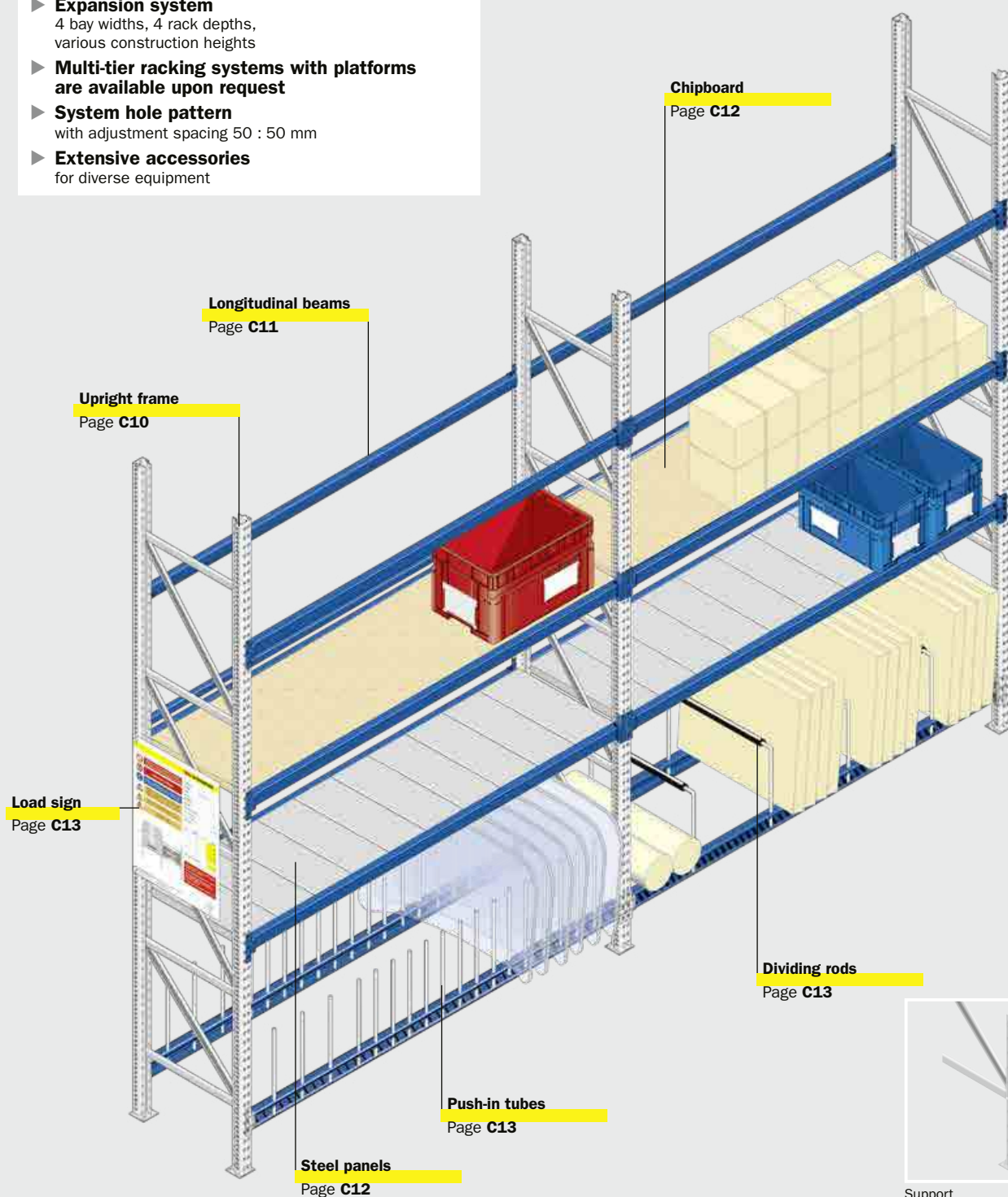


GALVANIZED DUST GRAY GENTIAN BLUE



- **High load capacity**  
of up to 3,500 kg per frame
- **Large shelf**  
for large-volume goods, consisting of a rack frame with bolted horizontal and diagonal braces as well as 3 different types of beams
- **Expansion system**  
4 bay widths, 4 rack depths, various construction heights
- **Multi-tier racking systems with platforms are available upon request**
- **System hole pattern**  
with adjustment spacing 50 : 50 mm
- **Extensive accessories**  
for diverse equipment

## WR 600 system design



Support



Load sign



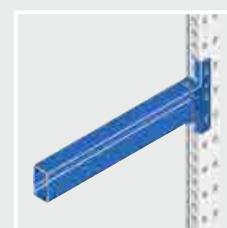
Steel panels, inserted



Chipboard, inserted



Dividing rods



Longitudinal beam

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix



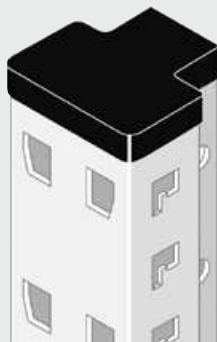


# WR 600 upright frame and accessories



## End caps

High-quality black plastic. Attached to the rack frames as an end piece.



Item

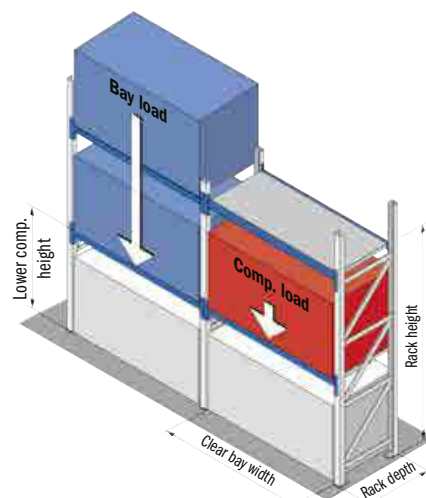
Order no.

K-AKP 1

472650

## Load capacity of the frame

The permissible load bearing capacity of the frame depends on the compartment height and the planned beam profile. The specified values apply for racks with at least 2 pairs of longitudinal beams per rack bay and rack rows with at least 5 rack bays.



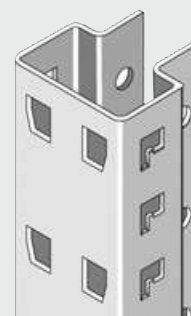
Compartment height      Frame load capacity

500 mm	3,500 kg
750 mm	3,000 kg
1,000 mm	2,700 kg
1,250 mm	2,300 kg
1,500 mm	1,800 kg

## Upright frame

The upright profiles are made from cold rolled, high-strength, galvanized steel bolted together with horizontal and diagonal struts to create a stable frame.

Delivered unassembled.



### Frame height 2,200 mm

Item	Frame depth (mm)	Order no.
R 61225	500	464500
R 61226	600	464530
R 61228	800	464560
R 61221	1,050	464590

### Frame height 2,500 mm

Item	Frame depth (mm)	Order no.
R 61255	500	464510
R 61256	600	464540
R 61258	800	464570
R 61251	1,050	464600

### Frame height 3,000 mm

Item	Frame depth (mm)	Order no.
R 61305	500	464520
R 61306	600	464550
R 61308	800	464580
R 61301	1,050	464610

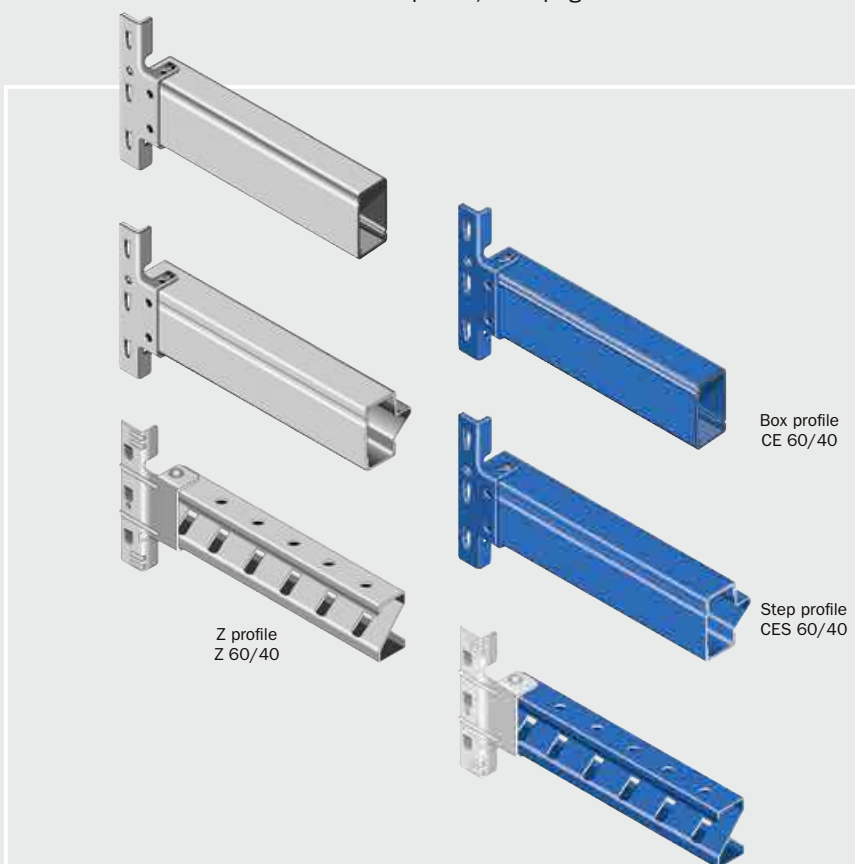
Order no. = on stock





## Compatible with PR 600 pallet racking

Chapter D, from page D8



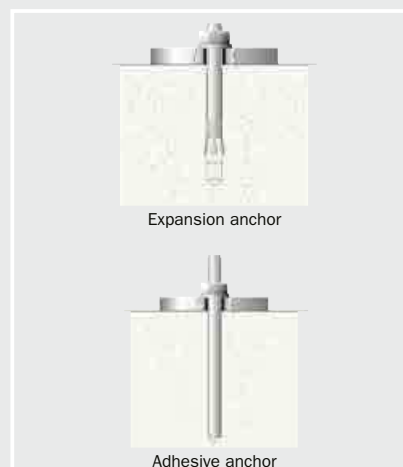
### Longitudinal beams

3-hook rear lips, guarantee an interlocking connection with the rack supports. Two retaining pins (included) per section are required to prevent unintentional removal.

Surface galvanized or painted (Gentian Blue, RAL 5010).

Item	Beam length (mm)	Load capacity per pair (kg)	PU	Order no.
<b>Longitudinal beam box profile CE 60/40</b>				
TR4-150-064-25CE	1,500	600	1	151760 —
TR4-180-064-25CE	1,800	600	1	151770 —
TR4-220-064-30CE	2,200	600	1	151820 —
TR4-270-064-30CE	2,700	600	1	151830 —
TR4-150-064-25CEL	1,500	600	1	— 151761
TR4-180-064-25CEL	1,800	600	1	— 151771
TR4-220-064-30CEL	2,200	600	1	— 151821
TR4-270-064-30CEL	2,700	600	1	— 151831
<b>Longitudinal beam step profile CES 60/40</b>				
TR4-150-064-25S	1,500	600	1	151840 —
TR4-180-064-25S	1,800	600	1	151850 —
TR4-220-064-30S	2,200	600	1	151900 —
TR4-270-064-30S	2,700	600	1	151910 —
TR4-150-064-25SL	1,500	600	1	— 151841
TR4-180-064-25SL	1,800	600	1	— 151851
TR4-220-064-30SL	2,200	600	1	— 151901
TR4-270-064-30SL	2,700	600	1	— 151911
<b>Longitudinal beam Z profile Z 60/40</b>				
TR 1506 Z-V	1,500	450	1	124730 —
TR 1806 Z-V	1,800	400	1	124740 —
TR 2206 Z-V	2,200	350	1	124750 —
TR 2706 Z-V	2,700	200	1	124760 —
TR 1506 Z-G	1,500	450	1	— 129440
TR 1806 Z-G	1,800	400	1	— 129450
TR 2206 Z-G	2,200	350	1	— 129460
TR 2706 Z-G	2,700	200	1	— 129470

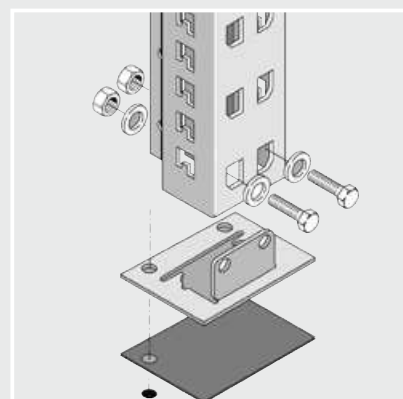
## Longitudinal beams and accessories WR 600



### Floor anchors

The frame needs to be anchored in order to ensure the stability of the longspan racking. M10 expansion anchors are used for a normal C20/25 concrete floor; M10 adhesive anchors are used for floors containing magnesium.

Item	Order no.
BA 10 SL Expansion anchor M 10	67030
BA 10 VA Adhesive anchor M 10	67390



### Base shims

To compensate for uneven ground, galvanized.

Item	Thickness (mm)	Order no.
AP 60.51	1	143500
AP 60.52	2	143510

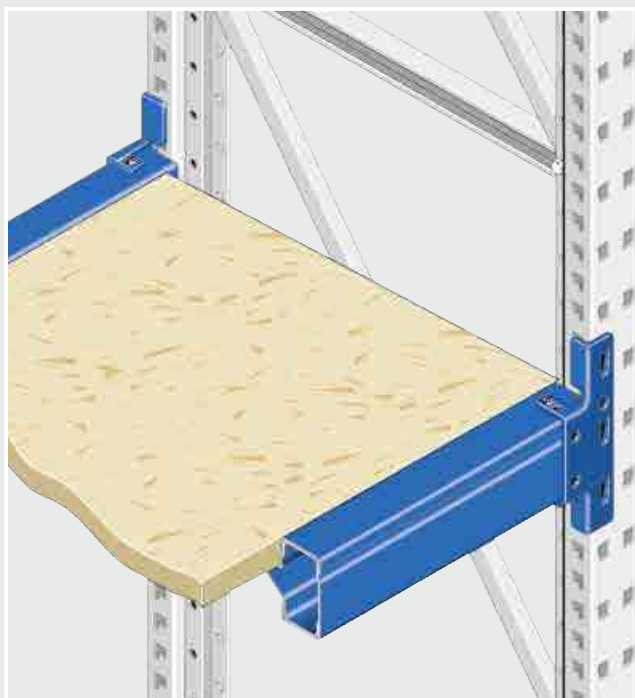
### Insulation plates

When installing racks on floors containing magnesium, plastic insulation plates are required for every rack support to prevent corrosion.

Item	Thickness (mm)	Order no.
IP 60.51	1	155250



# Compartment covers and panels WR 600

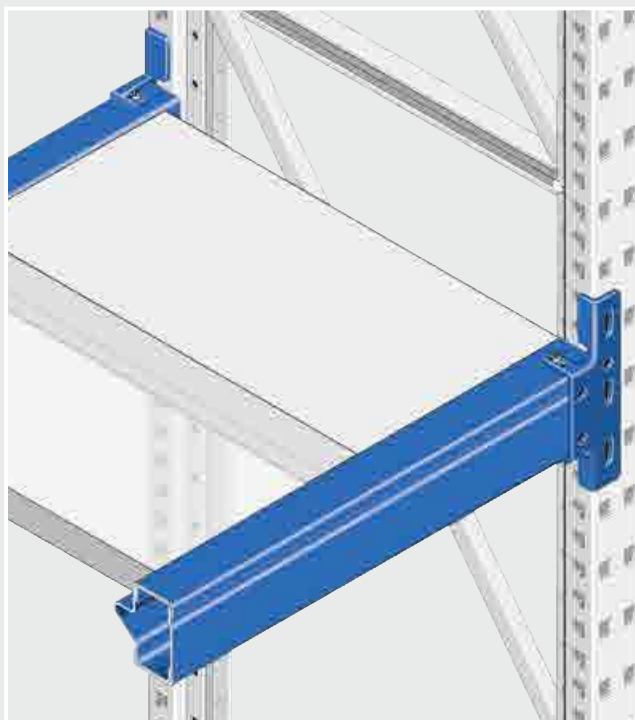


## Chipboard panels for longitudinal beams with step profile

Bin covers made of chipboard are inserted between the longitudinal beams. Quality: 22 mm, normal density.

The specified loads apply for uniformly distributed loads.

Item	Frame depth (mm)	Beam length (mm)	Compartment load (kg)	Order no.
FSS 15-050-22-NA	500	1,500	560	329600
FSS 18-050-22-NA		1,800	600	329640
FSS 22-050-22-NA		2,200	600	329680
FSS 27-050-22-NA		2,700	600	329720
FSS 15-060-22-NA	600	1,500	370	329610
FSS 18-060-22-NA		1,800	440	329650
FSS 22-060-22-NA		2,200	540	329690
FSS 27-060-22-NA		2,700	600	329730
FSS 15-080-22-NA	800	1,500	190	329620
FSS 18-080-22-NA		1,800	230	329660
FSS 22-080-22-NA		2,200	280	329700
FSS 27-080-22-NA		2,700	350	329740
FSS 15-105-22-NA	1,050	1,500	100	329630
FSS 18-105-22-NA		1,800	130	329670
FSS 22-105-22-NA		2,200	150	329710
FSS 27-105-22-NA		2,700	190	329750



## Steel panels for longitudinal beams with step profile

Steel panels made of sendzimir galvanized sheet steel, 200 or 300 mm wide, can be inserted into the longitudinal beams with a step profile.

The capacity per panel is 150 kg uniformly distributed load.

### Complete panel sets – for 200 mm and 300 mm panels

Item	Frame depth (mm)	Beam length (mm)	Order no.
FPS-15050	500	1,500	109701
FPS-18050		1,800	109711
FPS-22050		2,200	109721
FPS-27050		2,700	109731
FPS-15060	600	1,500	109741
FPS-18060		1,800	109751
FPS-22060		2,200	109761
FPS-27060		2,700	109771
FPS-15080	800	1,500	109781
FPS-18080		1,800	109791
FPS-22080		2,200	109801
FPS-27080		2,700	109811
FPS-15105	1,050	1,500	109821
FPS-18105		1,800	109831
FPS-22105		2,200	109841
FPS-27105		2,700	109851

### Single steel panels – panel width 200 mm

Item	Frame depth (mm)	Order no.
FPS 20-050-22-20A	500	329760
FPS 20-060-22-20A	600	329780
FPS 20-080-22-30A	800	329800
FPS 20-105-22-30A	1,050	329820

### Single steel panels – panel width 300 mm

Item	Frame depth (mm)	Order no.
FPS 30-050-22-20A	500	329770
FPS 30-060-22-20A	600	329790
FPS 30-080-22-30A	800	329810
FPS 30-105-22-30A	1,050	329830

Order no. = on stock

## DUST GRAY



RAL 7037

Oil can support  
Drum support

## GALVANIZED



Compartment divider  
Dividing rods  
Push-in tubes

## GENTIAN BLUE

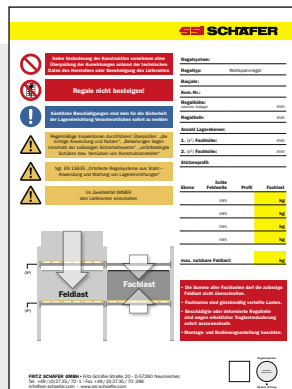


RAL 5010

Spacers

## ► Mandatory labeling

The regulations of the trade associations demand labeling of rack facilities with all the necessary load specifications

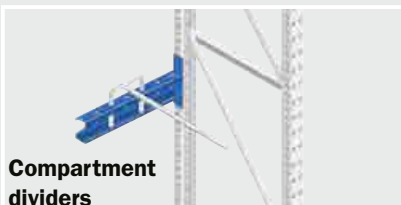


## Load signs

Item	Width (mm)	Height (mm)	Order no.
<b>Made of aluminum, incl. fixing kit</b>			
LSTS 7050	450	600	on req.*
<b>Made from PVC-adhesive film (not shown)</b>			
TS 0615	60	150	on req.*

\* The technical data is defined via a time sheet. It is offered and invoiced as part of the price of the sign.

## Storage labeling and safety accessories from p. D16



## Compartment dividers

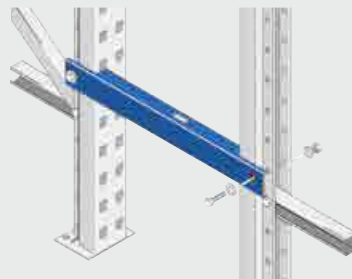
For vert. storage of wooden beams, pipes, etc. Adjustment 50 : 50 mm, galvanized.

Item	Frame depth (mm)	Length (mm)	Order no.
APH 340	500	340	18120
APH 740	800	740	18110

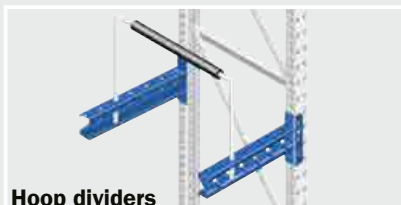
## Spacers

Two single-row racks position one behind the other connected with spacers to form double-row racks.

Surface finish: Gentian Blue, RAL 5010.



Item	Distance (mm)	Order no.
D 50 L	50	151060
D 100 L	100	151070
D 150 L	150	151080
D 200 L	200	151090
D 250 L	250	151100
D 300 L	300	151110
D 350 L	350	151120
D 400 L	400	151130
D 450 L	450	151140
D 500 L	500	151150



## Hoop dividers

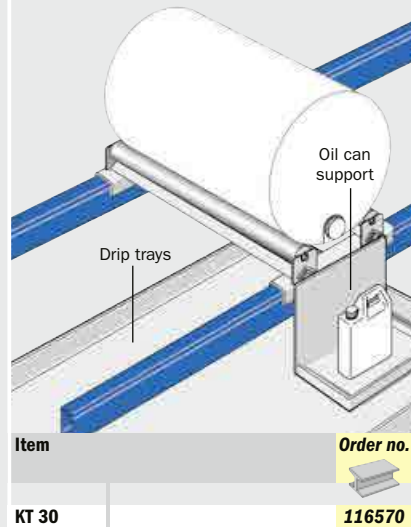
For dividing compartments of Z beams. Adjustment 50 : 50 mm, galvanized.

Item	Frame depth (mm)	Order no.
KTB 50	500	159420
KTB 80	800	159430
KTB S	Bracket padding	39640

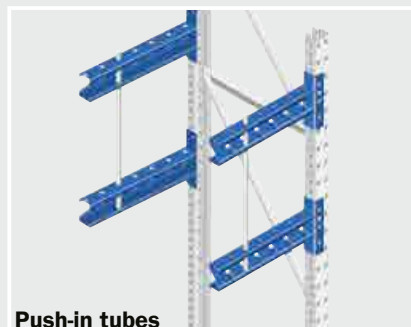
## Oil can support

Can be inserted into the front of drum supports, with support surface. Dimensions: 300 x 350 mm.

Surface finish: Dust gray, RAL 7037.



Item Order no.  
KT 30 116570



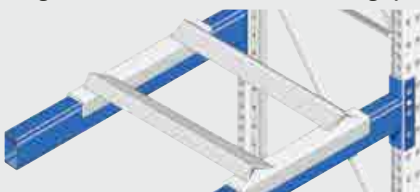
## Push-in tubes

For dividing compartments of Z beams. Adjustment 50 : 50 mm, galvanized.

Item	Tube length (mm)	Order no.
KRA 4170	170	159440
KRA 4300	300	159450
KRA 4950	950	159460
KRA 4105	1,050	159470

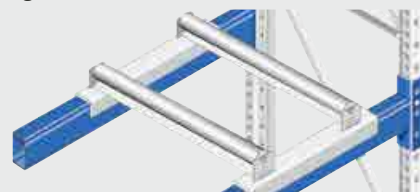
## Drum supports

Welded frame made of angled profiles. For rotary drum supports with two ball bearing-mounted, galvanized steel rollers. For fitting on longitudinal beams. Surface finish: Dust gray, RAL 7037. Load capacity 210 kg.



## Stationary

Item	Frame depth (mm)	Order no.
FAS 80	800	116900
FAS 105	1,050	116520



## Rotatable

Item	Frame depth (mm)	Order no.
FAD 80	800	116910
FAD 105	1,050	116560

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix



# Pallet racking – a modular system with limitless versatility



SSI SCHAEFER's pallet racking systems are so handy as the Euro and Industrial pallets themselves. It doesn't matter what kind of load carrier – pallets, mesh boxes or any other – longitudinal beam racks for single- or multiple place storage ensure high mobility of ware and quick goods turnover. Multi-place longitudinal beam rack systems are used in diverse branches from wholesale or spare parts warehouses in the electronics, mechanics and automotive industries.

Single-place rack systems are ideal for storing goods with the same base carrier and varying heights. Drive-in rack systems have proven their value especially when storing a very large quantity of a limited range of articles.

Using adequate accessories, pallets and containers, even with varying sizes, this kind of rack system enables optimal storage.



**Changed frame depth in 2021**

for PR 350 and PR 600 from 1,050 mm to **1,100 mm**







**PR 350 longitudinal beam racking** page **D4**



**PR 600 longitudinal beam racking** page **D8**

**Accessories for pallet racking** page **D12**

**Safety accessories** page **D16**

**Storage and storage space labeling** page **D20**

**PR 600 front-to-back beam racking** page **D24**

**Drive-in and drive-through racking** page **D26**

**Mobile racking** page **D28**

**Pallet live storage racking** page **D30**

**High rise racking** page **D32**

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix





# Overview of pallet racking systems

	Longitudinal beam rackings PR 350	Longitudinal beam rackings PR 600
Areas of use	Pallet storage of medium and high-volume goods with medium to high loads, e.g. in production areas and for on-line shelving	Pallet storage of medium and high-volume goods with medium to high loads, e.g. for logistics services or in distribution warehouses
Advantages	<ul style="list-style-type: none"> <li>▶ Solid and robust construction</li> <li>▶ Easy assembly with only a few components</li> </ul>	<ul style="list-style-type: none"> <li>▶ Light and economical</li> <li>▶ Sturdy due to special design</li> <li>▶ Highest dimensional accuracy</li> </ul>
Design	▶ Welded frame construction with longitudinal beams, 3 types of upright profiles each with 3 frame depths, 10 frame heights, 2 beam profile types, 7 bay widths	▶ Bolted frame construction with longitudinal beams, 4 stand profiles each with 3 frame depths, 10 frame heights, 2 beam types, 7 bay width
Beam connection	▶ Bolt-free system	▶ Bolt-free system
System hole pattern	▶ 50 : 50 mm	▶ 50 : 50 mm
Upright profile widths	▶ 70, 80, 100 mm	▶ 75, 90, 100, 120 mm
Frame load capacity	▶ Up to 12,500 kg	▶ Up to 30,000 kg
Beam load capacity	▶ Up to 4,500 kg per pair	▶ Up to 4,500 kg per pair
Frame surface	▶ Painted RAL 7037, Dust Gray	▶ Galvanized
Beam surface	▶ Painted RAL 5010, Gentian Blue	▶ Painted RAL 5010, Gentian Blue



D4



D8

from pages



i

**Safety equipment for racks according to German regulation DG-UV 108-007**

**1.1 Row end frame height increase**  
by at least 500 mm above the top rack height

**1.2 Passage overhead protection**  
These must be covered by chipboard, grating or similar.  
Clear passage height must be at least minimum 2,000 mm

**1.3 Safety distance between load carriers**  
Safety distance between load carriers lower than 100 mm?  
Back stops will be necessary inside double-sided racks

**1.4 End Frames**  
Corner protectors must be installed at all free-standing end frames.  
This also applies to passages

**1.5 Single-sided rack rows**  
If one side of a free-standing single-row rack is not used for loading or unloading, this side must be secured, preventing ware units from falling out. For example using nets, solid or mesh back panels

**1.6 Transposed storage**  
If the skids or feet of load carriers are parallel to beams, or not directly supported by beams, they must be secured by front-to-back supports, chipboards, mesh grates or similar devices

**1.7 Load signs**  
These must be provided for all rack installations

i

**Technical regulations for the pallet racking**

**2.1 Rack rows**  
A rack row must consist of at least 3 rack bays

**2.2 Beam levels**  
There must be at least 2 beam levels per rack bay

**2.3 Compartment heights**  
The compartment heights must not differ by more than 200 mm.  
The maximum compartment height is 2,500 mm

**2.4 Concrete quality of the hall floor**  
Minimum concrete quality of the hall floor:  
C20/25 as per EN 1992. Concrete thickness 200 mm



## PR 350 pallet racking

Longitudinal beam racks can be used universally for all tasks in the warehouse. Using adequate accessories, pallets and containers, even with varying sizes, this kind of rack system enables optimal storage.

The PR 350 longitudinal beam rack is the development of the robust and solid rack technology and represents the continuity at SSI SCHAEFER. This modular storage system has been in use and thoroughly proven its qualities for more than 15 years.

The compatibility to other systems and the high range of accessories allow the continuous expansion of existing equipment and rack solutions.







# Frames and longitudinal beams PR 350

## ► High load capacity

Frame load capacity of up to 12,500 kg (for min. 2 beam pairs INP 100 per rack bay and 5 rack bays per rack row), beam load capacity up to 4,500 kg per pair

## ► Sturdy due to special design

## ► High-quality materials

## ► System hole pattern

with adjustment spacing 50 : 50 mm

## ► Support widths

70, 80, 100 mm

## ► Easy assembly

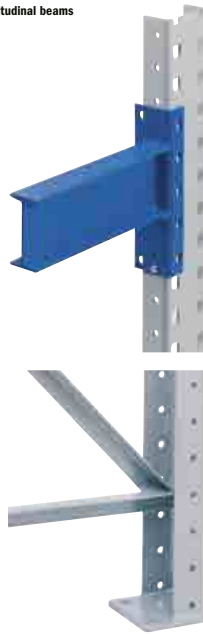
with only a few components

## ► Welded frame construction

## ► Solid base

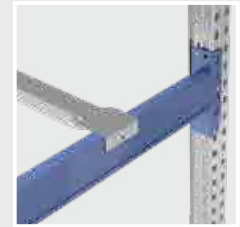
## ► Robust design

with a material thicknesses up to 4 mm

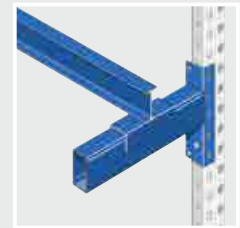


## Front-to-back supports

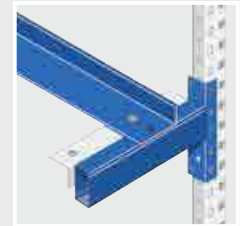
Page D14



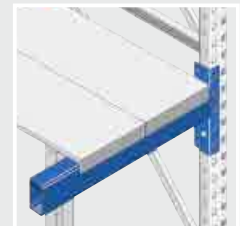
Front-to-back supports



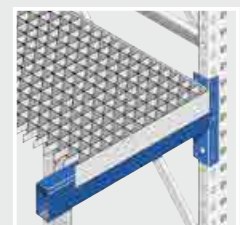
Fork spacer



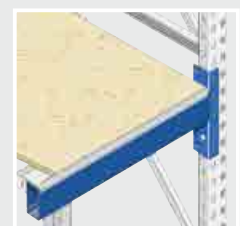
Front-to-back supports made of angled profile with locking bracket



Steel panels, attached



Mesh panels, attached



Chipboard with edge protection, attached

## Mesh back panels

Page D18

## Frame

Page D6

## Fork spacers

Page D14

## Front-to-back support from the angled profile

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## Steel panels on INP beam profile

Page D15

## Load sign

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## Chipboards attached

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## Mesh panels on beam profile INP

Page D15

## Corner protector

Page D16

## Longitudinal beams

Page D7



Corner protector



Load sign

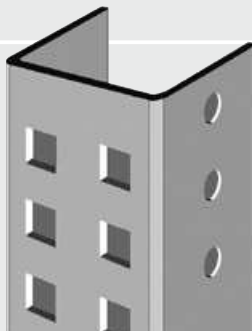
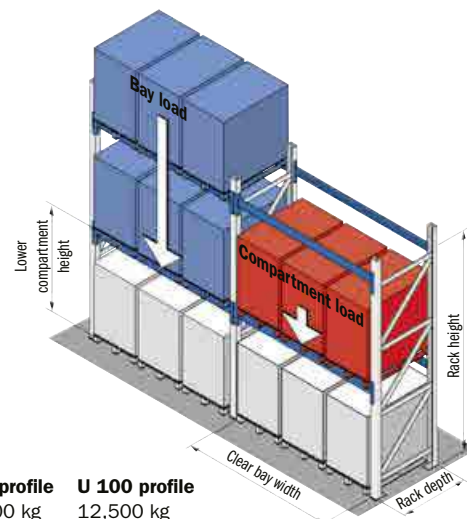


# PR 350 frame

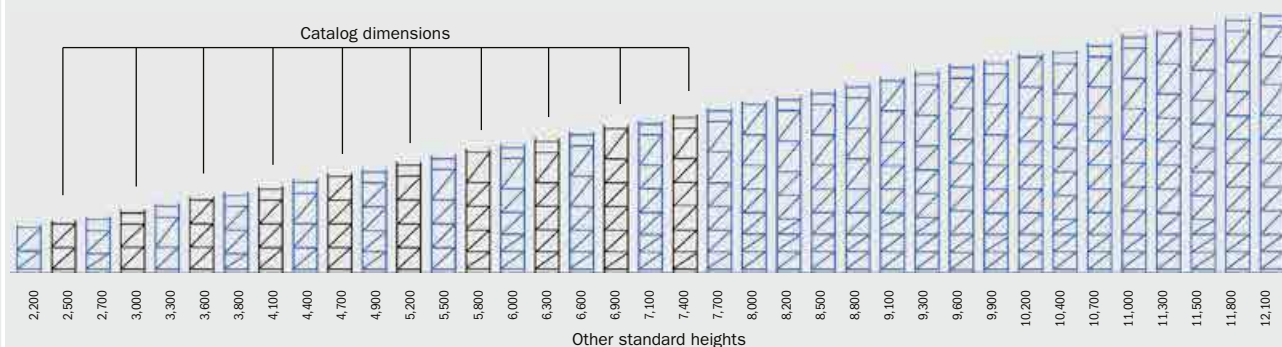
## ► Frame load capacity

The permissible load capacity of the frame depends on the compartment height and the planned beam profile. The specified values apply for racks with at least 2 pairs of longitudinal beams/rack bays, rows with at least 5 rack bays and INP 100 beam profiles. The values vary depending on the beam profile.

If you have any questions please contact our technical consultants.



Compartment height	Frame load capacity		
	U 70 profile	U 80 profile	U 100 profile
1,000 mm	5,500 kg	10,600 kg	12,500 kg
1,250 mm	5,200 kg	10,000 kg	12,000 kg
1,500 mm	4,600 kg	9,600 kg	11,800 kg
1,750 mm	4,000 kg	9,300 kg	11,600 kg
2,000 mm	3,650 kg	8,000 kg	10,000 kg
2,250 mm	3,300 kg	7,200 kg	9,000 kg
2,500 mm	2,900 kg	6,000 kg	7,500 kg



Item	Frame height (mm)	Frame depth (mm)	Order no.	Item	Frame height (mm)	Frame depth (mm)	Order no.	Item	Frame height (mm)	Frame depth (mm)	Order no.
<b>U 70 profile</b>											
RN 70258	2,500	850	126030	RN 70251	2,500	1,050	126390	RN 70252	2,500	1,250	126750
RN 70308	3,000	850	126090	RN 70301	3,000	1,050	126450	RN 70302	3,000	1,250	126810
RN 70368	3,600	850	126150	RN 70361	3,600	1,050	126510	RN 70362	3,600	1,250	126870
RN 70418	4,100	850	126210	RN 70411	4,100	1,050	126570	RN 70412	4,100	1,250	126930
RN 70478	4,700	850	126270	RN 70471	4,700	1,050	126630	RN 70472	4,700	1,250	126990
RN 70528	5,200	850	126330	RN 70521	5,200	1,050	126690	RN 70522	5,200	1,250	127050
<b>U 80 profile</b>											
RN 80258	2,500	850	126040	RN 80251	2,500	1,050	126400	RN 80252	2,500	1,250	126760
RN 80308	3,000	850	126100	RN 80301	3,000	1,050	126460	RN 80302	3,000	1,250	126820
RN 80368	3,600	850	126160	RN 80361	3,600	1,050	126520	RN 80362	3,600	1,250	126880
RN 80418	4,100	850	126220	RN 80411	4,100	1,050	126580	RN 80412	4,100	1,250	126940
RN 80478	4,700	850	126280	RN 80471	4,700	1,050	126640	RN 80472	4,700	1,250	127000
RN 80528	5,200	850	126340	RN 80521	5,200	1,050	126700	RN 80522	5,200	1,250	127060
RN 80588	5,800	850	127120	RN 80581	5,800	1,050	127480	RN 80582	5,800	1,250	127840
RN 80638	6,300	850	127180	RN 80631	6,300	1,050	127540	RN 80632	6,300	1,250	127900
RN 80698	6,900	850	127240	RN 80691	6,900	1,050	127600	RN 80692	6,900	1,250	127960
RN 80748	7,400	850	127300	RN 80741	7,400	1,050	127660	RN 80742	7,400	1,250	128020
<b>U 100 profile</b>											
RN 10368	3,600	850	126170	RN 10361	3,600	1,050	126530	RN 10362	3,600	1,250	126890
RN 10418	4,100	850	126230	RN 10411	4,100	1,050	126590	RN 10412	4,100	1,250	126950
RN 10478	4,700	850	126290	RN 10471	4,700	1,050	126650	RN 10472	4,700	1,250	127010
RN 10528	5,200	850	126350	RN 10521	5,200	1,050	126710	RN 10522	5,200	1,250	127070
RN 10588	5,800	850	127130	RN 10581	5,800	1,050	127490	RN 10582	5,800	1,250	127850
RN 10638	6,300	850	127190	RN 10631	6,300	1,050	127550	RN 10632	6,300	1,250	127910
RN 10698	6,900	850	127250	RN 10691	6,900	1,050	127610	RN 10692	6,900	1,250	127970
RN 10748	7,400	850	127310	RN 10741	7,400	1,050	127670	RN 10742	7,400	1,250	128030

Order no. = on stock

### ► Support profiles

made from thick-walled U-profile. Welded together with horizontal and diagonal braces to create a stable frame.

System hole pattern 50 : 50 mm steps.

Solid floor plates safely transfer the loads to the floor.

### ► Longitudinal beams

with welded 5-hook rear lips. These guarantee an interlocking connection with the rack supports.

Adjustable using the system hole pattern 50 : 50 mm.

2 retaining pins (included in the scope of delivery) per section are required to prevent unintentional removal.

The load specifications apply for uniformly distributed loads.

The order numbers apply for one beam.

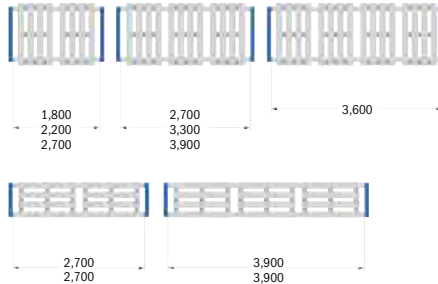
### ► Longitudinal beam rack system dimensions

#### Storage in depth direction

Pallet dimensions	Insertion depth	Rack depth
800 x 1,200 mm	1,200 mm	1,050 mm
1,000 x 1,200 mm	1,200 mm	1,050 mm
1,200 x 1,200 mm	1,200 mm	1,050 mm

#### Storage in transverse direction

Pallet dimensions	Insertion depth	Rack depth
800 x 1,200 mm	800 mm	850 mm
1,000 x 1,200 mm	1,000 mm	1,050 mm



# Longitudinal beams

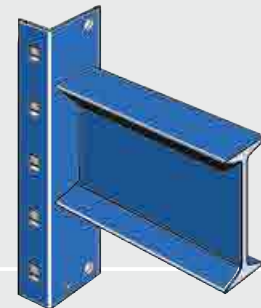


## PR 350 accessories

from page D14

### Longitudinal beams with INP profile

Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.
<b>Length 1,800 mm</b>				<b>Length 2,200 mm</b>				<b>Length 2,700 mm</b>			
TRN1-180-08-I	3,000	INP 80	323560	TRN1-220-08-I	2,500	INP 80	323600	TRN1-270-08-I	2,100	INP 80	323650
TRN1-180-10-I	4,500	INP 100	323720	TRN1-220-10-I	4,200	INP 100	323760	TRN1-270-10-I	3,500	INP 100	323810
<b>Length 2,900 mm</b>				<b>Length 3,300 mm</b>				<b>Length 3,600 mm</b>			
TRN1-290-08-I	1,900	INP 80	323670	TRN1-330-08-I	1,400	INP 80	323710	TRN1-360-10-I	2,300	INP 100	323900
TRN1-290-10-I	3,300	INP 100	323830	TRN1-330-10-I	2,700	INP 100	323870	TRN1-360-12-I	3,900	INP 120	324120
TRN1-290-12-I	4,500	INP 120	324050	TRN1-330-12-I	4,400	INP 120	324090				
<b>Length 3,900 mm</b>				<b>Length 3,900 mm</b>							
				TRN1-390-10-I	2,000	INP 100	323930				
				TRN1-390-12-I	3,400	INP 120	324150				



### Longitudinal beams with CE profile

Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.
<b>Length 1,800 mm</b>				<b>Length 2,200 mm</b>				<b>Length 2,700 mm</b>			
TRN1-180-085-30 CE	3,200	CE 80	324220	TRN1-220-085-30 CE	2,500	CE 80	324230	TRN1-270-085-30 CE	1,700	CE 80	324240
TRN1-180-105-30 CE	4,200	CE 100	on req.	TRN1-220-105-30 CE	3,500	CE 100	on req. *	TRN1-270-105-30 CE	2,600	CE 100	on req. *
TRN1-180-115-30 CE	4,500	CE 110	324300	TRN1-220-115-30 CE	3,900	CE 110	324310	TRN1-270-115-30 CE	3,000	CE 110	324320
<b>Length 2,900 mm</b>				<b>Length 3,300 mm</b>				<b>Length 3,600 mm</b>			
TRN1-290-085-30 CE	1,500	CE 80	on req. *	TRN1-330-115-30 CE	2,200	CE 110	324340	TRN1-360-115-30 CE	1,900	CE 110	324350
TRN1-290-105-30 CE	2,300	CE 100	on req. *	TRN1-330-125-30 CE	2,600	CE 120	on req. *	TRN1-360-125-30 CE	2,300	CE 120	on req. *
TRN1-290-115-30 CE	2,700	CE 110	324330	TRN1-330-145-30 CE	3,100	CE 140	312910	TRN1-360-145-30 CE	2,700	CE 140	312940
TRN1-290-125-30 CE	3,200	CE 120	on req. *								
TRN1-290-145-30 CE	3,800	CE 140	312870								
<b>Length 3,900 mm</b>				<b>Length 3,900 mm</b>							
				TRN1-390-145-30 CE	2,300	CE 140	312970				



\* Minimum order quantity on request.



## PR 600 – the modern pallet racking system

The PR 600 rack system is characterized by its diverse, versatile configuration options. This enables the implementation of all designs including longitudinal beams, front-to-back beams and drive-in racking systems for maximum storage capacity with a minimum volume.

One advantage that frequently does not come into play until later is the

ability to adapt the system to changing circumstances. The rack frames are bolted together and also designed for the highest loads.

This is a modern pallet racking system – a versatile stacking system for individual solutions.

### ► Tested quality

PR 600 longitudinal beam racks have the RAL-RG 614/2 seal of quality. Compliance with the criteria is checked twice per year by an independent authority. This guarantees that both the material and the production fulfill the high quality requirements.





GALVANIZED

Frame



GENTIAN BLUE

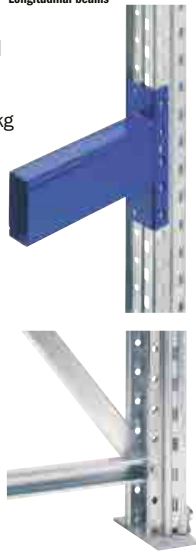
Longitudinal beams



RAL 5010

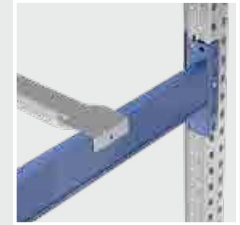
# Frames and longitudinal beams PR 600

- **High load capacity**  
Frame load capacity of up to 30,000 kg (for min. 2 beam pairs INP 100 per rack bay and 5 rack bays per rack row), beam load capacity up to 4,500 kg per pair
- **Light and economical**
- **Sturdy due to special design**
- **High-quality materials**
- **Precise dimensional accuracy**
- **System hole pattern**  
with adjustment spacing 50 : 50 mm
- **Support widths**  
75, 90, 100, 120 mm
- **Easy assembly**  
with only a few components
- **Bolted frame construction**

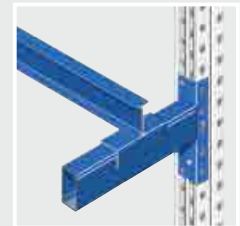


Front-to-back supports

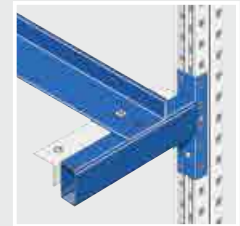
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Front-to-back supports



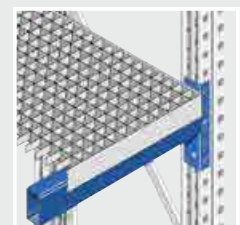
Fork spacer



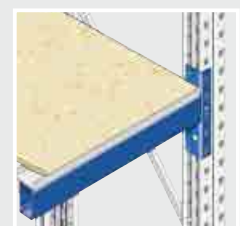
Front-to-back supports made of angled profile with locking bracket



Steel panels, attached



Mesh panels, attached



Chipboard with edge protection, attached

Mesh back panels

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Frame

Page D10

Front-to-back support from the angled profile

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End stops

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Fork spacers

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Load sign

Page D19

Steel panels on INP beam profile

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Chipboards attached

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Mesh panels on beam profile INP

Page D15

Corner protector

Page D16

Longitudinal beams

Page D11



Corner protector



Load sign

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

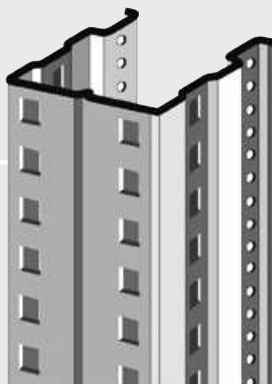
On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix

# PR 600 frame

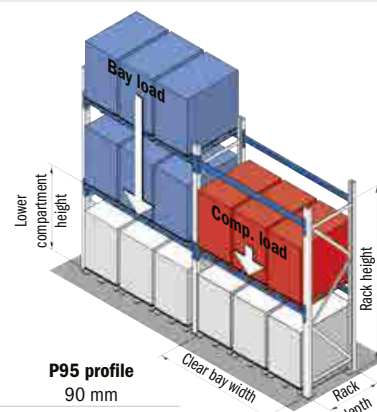


## ► Frame load capacity

The permissible bay load capacity of the frame depends on the compartment height and the planned beam profile. The specified values apply for racks with at least 2 pairs of longitudinal beams/rack bay, rows with at least 5 rack bays and CE 110 for bays width 2,700 mm along with CE 140 for bay with 3,600 mm). The values vary depending on the beam profile.

Compartment heights exceeding 2,500 mm require a separate static calculation.

If you have any questions please contact our technical consultants.



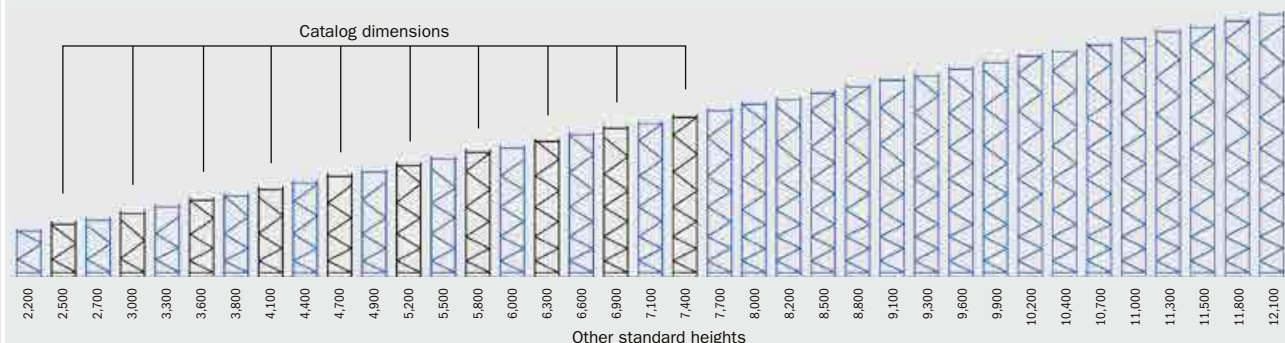
Support width	P73 profile 75 mm		P93 profile 90 mm		P95 profile 90 mm	
	Bay width		Bay width		Bay width	
	2,700 mm	3,600 mm	2,700 mm	3,600 mm	2,700 mm	3,600 mm
Comp. height	2,700 mm	3,600 mm	2,700 mm	3,600 mm	2,700 mm	3,600 mm
750 mm	9,050 kg	7,850 kg	10,400 kg	9,450 kg	16,300 kg	16,750 kg
1,000 mm	9,050 kg	7,850 kg	9,850 kg	9,150 kg	13,350 kg	13,400 kg
1,250 mm	7,200 kg	6,900 kg	9,250 kg	8,500 kg	12,700 kg	11,700 kg
1,500 mm	7,100 kg	6,800 kg	9,250 kg	8,500 kg	12,600 kg	11,350 kg
1,750 mm	6,850 kg	6,700 kg	8,900 kg	8,300 kg	10,700 kg	10,400 kg
2,000 mm	6,850 kg	6,700 kg	8,750 kg	8,150 kg	10,700 kg	10,400 kg
2,250 mm	6,550 kg	6,450 kg	8,750 kg	8,100 kg	10,050 kg	9,950 kg
2,500 mm	5,700 kg	5,700 kg	7,450 kg	7,750 kg	10,050 kg	9,750 kg

## Other frame profiles

on request

## PR 600 accessories

from page D12



### P 73 profile

Item	Frame height (mm)	Order no.	Item	Frame height (mm)	Order no.	Item	Frame height (mm)	Order no.
<b>Frame depth 850 mm</b>			<b>Frame depth 1,050 mm</b>			<b>Frame depth 1,250 mm</b>		
RV1-773-0250-085	2,500	307280	RV1-773-0250-105	2,500	307520	RV1-773-0250-125	2,500	307760
RV1-773-0300-085	3,000	307290	RV1-773-0300-105	3,000	307530	RV1-773-0300-125	3,000	307770
RV1-773-0360-085	3,600	307300	RV1-773-0360-105	3,600	307540	RV1-773-0360-125	3,600	307780
RV1-773-0410-085	4,100	307310	RV1-773-0410-105	4,100	307550	RV1-773-0410-125	4,100	307790
RV1-773-0470-085	4,700	307320	RV1-773-0470-105	4,700	307560	RV1-773-0470-125	4,700	307800
RV1-773-0520-085	5,200	307330	RV1-773-0520-105	5,200	307570	RV1-773-0520-125	5,200	307810

### P 93 profile

RV1-973-0250-085	2,500	307340	RV1-973-0250-105	2,500	307580	RV1-973-0250-125	2,500	307820
RV1-973-0300-085	3,000	307350	RV1-973-0300-105	3,000	307590	RV1-973-0300-125	3,000	307830
RV1-973-0360-085	3,600	307360	RV1-973-0360-105	3,600	307600	RV1-973-0360-125	3,600	307840
RV1-973-0410-085	4,100	307370	RV1-973-0410-105	4,100	307610	RV1-973-0410-125	4,100	307850
RV1-973-0470-085	4,700	307380	RV1-973-0470-105	4,700	307620	RV1-973-0470-125	4,700	307860
RV1-973-0520-085	5,200	307390	RV1-973-0520-105	5,200	307630	RV1-973-0520-125	5,200	307870
RV1-973-0580-085	5,800	307400	RV1-973-0580-105	5,800	307640	RV1-973-0580-125	5,800	307880
RV1-973-0630-085	6,300	307410	RV1-973-0630-105	6,300	307650	RV1-973-0630-125	6,300	307890
RV1-973-0690-085	6,900	307420	RV1-973-0690-105	6,900	307660	RV1-973-0690-125	6,900	307900
RV1-973-0740-085	7,400	307430	RV1-973-0740-105	7,400	307670	RV1-973-0740-125	7,400	307910

### P 95 profile

RV1-975-0360-085	3,600	307440	RV1-975-0360-105	3,600	307680	RV1-975-0360-125	3,600	307920
RV1-975-0410-085	4,100	307450	RV1-975-0410-105	4,100	307690	RV1-975-0410-125	4,100	307930
RV1-975-0470-085	4,700	307460	RV1-975-0470-105	4,700	307700	RV1-975-0470-125	4,700	307940
RV1-975-0520-085	5,200	307470	RV1-975-0520-105	5,200	307710	RV1-975-0520-125	5,200	307950
RV1-975-0580-085	5,800	307480	RV1-975-0580-105	5,800	307720	RV1-975-0580-125	5,800	307960
RV1-975-0630-085	6,300	307490	RV1-975-0630-105	6,300	307730	RV1-975-0630-125	6,300	307970
RV1-975-0690-085	6,900	307500	RV1-975-0690-105	6,900	307740	RV1-975-0690-125	6,900	307980
RV1-975-0740-085	7,400	307510	RV1-975-0740-105	7,400	307750	RV1-975-0740-125	7,400	307990

Order no. = on stock



# Longitudinal beams

## Support profiles

Made of cold rolled, high-strength steel. Their special shape makes the supports highly rigid. These are bolted together with horizontal and diagonal braces to create a sturdy frame. Delivered unassembled.

System hole pattern 50 : 50 mm steps.

Solid floor plates safely transfer the loads to the floor.

## Longitudinal beams

with welded 5-hook rear lips. These guarantee an interlocking connection with the rack supports.

Adjustable using the system hole pattern 50:50 mm.

2 retaining pins (included in the scope of delivery) per section are required to prevent unintentional removal.

The load specifications apply for uniformly distributed loads.

The order numbers apply for one beam.

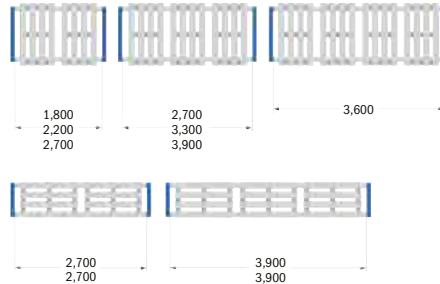
## Longitudinal beam rack system dimensions

### Storage in depth direction

Pallet dimensions	Insertion depth	Rack depth
800 x 1,200 mm	1,200 mm	1,050 mm
1,000 x 1,200 mm	1,200 mm	1,050 mm
1,200 x 1,200 mm	1,200 mm	1,050 mm

### Storage in transverse direction

Pallet dimensions	Insertion depth	Rack depth
800 x 1,200 mm	800 mm	850 mm
1,000 x 1,200 mm	1,000 mm	1,050 mm

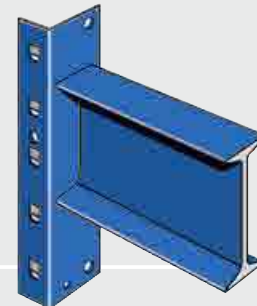


Compatible with WR 600 longspan racking systems

Chapter C, from page C1

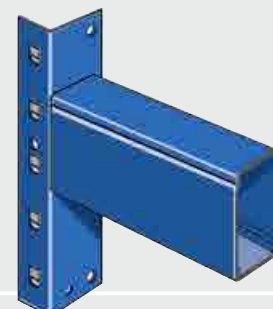
## Longitudinal beams with INP profile

Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.
<b>Length 1,800 mm</b>				<b>Length 2,200 mm</b>				<b>Length 2,700 mm</b>			
TRV1-180-08-I	3,000	INP 80	321500	TRV1-220-08-I	2,500	INP 80	321540	TRV1-270-08-I	2,100	INP 80	321590
TRV1-180-10-I	4,500	INP 100	321660	TRV1-220-10-I	4,200	INP 100	321700	TRV1-270-10-I	3,500	INP 100	321750
								TRV1-270-12-I	4,500	INP 120	321970
<b>Length 2,900 mm</b>				<b>Length 3,300 mm</b>							
TRV1-290-08-I	1,900	INP 80	321610	TRV1-330-08-I	1,400	INP 80	321650				
TRV1-290-10-I	3,300	INP 100	321770	TRV1-330-10-I	2,700	INP 100	321810				
TRV1-290-12-I	4,500	INP 120	321990	TRV1-330-12-I	4,400	INP 120	322030				
<b>Length 3,600 mm</b>				<b>Length 3,900 mm</b>							
TRV1-360-10-I	2,300	INP 100	321840	TRV1-390-10-I	2,000	INP 100	321870				
TRV1-360-12-I	3,900	INP 120	322060	TRV1-390-12-I	3,400	INP 120	322090				



## Longitudinal beams with CE profile

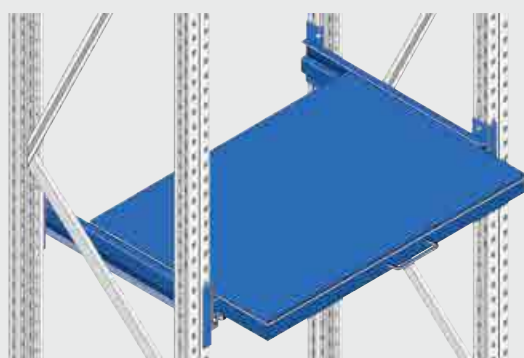
Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.
<b>Length 1,800 mm</b>				<b>Length 2,200 mm</b>				<b>Length 2,700 mm</b>			
TRV1-180-085-30 CE	3,200	CE 80	322160	TRV1-220-085-30 CE	2,500	CE 80	322200	TRV1-270-085-30 CE	1,700	CE 80	322250
TRV1-180-105-30 CE	4,200	CE 100	on req.*	TRV1-220-105-30 CE	3,500	CE 100	on req.*	TRV1-270-105-30 CE	2,600	CE 100	on req.*
TRV1-180-115-30 CE	4,500	CE 110	322720	TRV1-220-115-30 CE	3,900	CE 110	322760	TRV1-270-115-30 CE	3,000	CE 110	322810
								TRV1-270-125-30 CE	3,600	CE 120	on req.*
								TRV1-270-145-30 CE	4,300	CE 140	323370
<b>Length 2,900 mm</b>				<b>Length 3,300 mm</b>							
TRV1-290-085-30 CE	1,500	CE 80	on req.*	TRV1-330-115-30 CE	2,200	CE 110	322870				
TRV1-290-105-30 CE	2,300	CE 100	on req.*	TRV1-330-125-30 CE	2,600	CE 120	on req.*				
TRV1-290-115-30 CE	2,700	CE 110	322830	TRV1-330-145-30 CE	3,100	CE 140	323430				
TRV1-290-125-30 CE	3,200	CE 120	on req.*								
TRV1-290-145-30 CE	3,800	CE 140	323390								
<b>Length 3,600 mm</b>				<b>Length 3,900 mm</b>							
TRV1-360-115-30 CE	1,900	CE 110	322900	TRV1-390-145-30 CE	2,300	CE 140	323490				
TRV1-360-125-30 CE	2,300	CE 120	on req.*								
TRV1-360-145-30 CE	2,700	CE 140	323460								



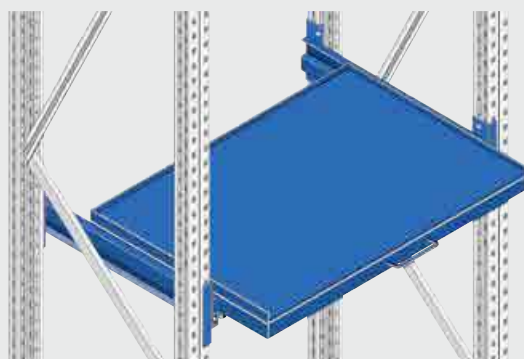
\* Minimum order quantity on request.



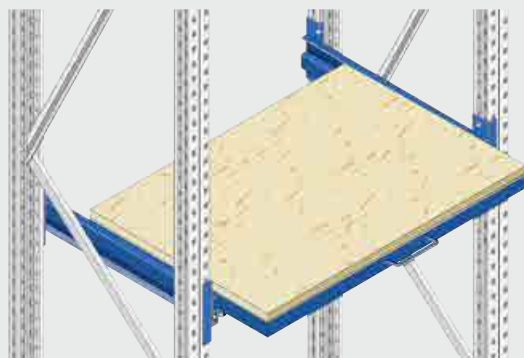
# PR 600 accessories



Extendable shelf, sheet metal cladding, smooth



Extendable shelf, sheet metal cladding, 3-sided rolling edge



Extendable shelf, chipboard cladding

## Heavy duty extendable shelves

Precision construction made of welded steel profile with precise steel ball bearings. The guide rails are bolted to the frame and can be adjusted using the system hole pattern of 50 : 50 mm. A double lock secures the extendable shelf when it is pulled out and pushed in. Load capacity of up to 1,000 kg with an evenly distributed load.

## Heavy duty extendable shelves, 67% extendable

Item	Frame depth (mm)	Usable depth (mm)	Extension length (mm)	Load capacity (kg)	Order no.
<b>Extendable shelf, sheet metal cladding, smooth</b>					
For racks with clear bay width 900 mm, usable width 800 mm.					
<b>AB 08.091</b>	850	800	530	1,000	<b>143230</b>
<b>AB 12.091</b>	1,250	1,200	830	1,000	<b>143260</b>

For racks with clear bay width 1,300 mm, usable width 1,200 mm.

<b>AB 08.131</b>	850	800	530	1,000	<b>143290</b>
<b>AB 12.131</b>	1,250	1,200	830	1,000	<b>143320</b>

## Extendable shelf, sheet metal cladding, 3-sided rolling edge

For racks with clear bay width 900 mm, usable width 800 mm.

<b>AB 08.092</b>	850	800	530	1,000	<b>143240</b>
<b>AB 12.092</b>	1,250	1,200	830	1,000	<b>143270</b>

For racks with clear bay width 1,300 mm, usable width 1,200 mm.

<b>AB 08.132</b>	850	800	530	1,000	<b>143300</b>
<b>AB 12.132</b>	1,250	1,200	830	1,000	<b>143330</b>

## Extendable shelf, chipboard cladding

For racks with clear bay width 900 mm, usable width 800 mm.

<b>AB 08.093</b>	850	800	530	1,000	<b>143250</b>
<b>AB 12.093</b>	1,250	1,200	830	1,000	<b>143280</b>

For racks with clear bay width 1,300 mm, usable width 1,200 mm.

<b>AB 08.133</b>	850	800	530	1,000	<b>143310</b>
<b>AB 12.133</b>	1,250	1,200	830	1,000	<b>143340</b>

## Heavy duty extendable shelves, 100% extendable

Item	Frame depth (mm)	Usable depth (mm)	Extension length (mm)	Load capacity (kg)	Order no.
<b>Extendable shelf, sheet metal cladding, smooth</b>					
For racks with clear bay width 900 mm, usable width 800 mm.					
<b>AB 08.091 V</b>	850	800	800	1,000	<b>143800</b>
<b>AB 12.091 V</b>	1,250	1,200	1,200	1,000	<b>143860</b>

For racks with clear bay width 1,300 mm, usable width 1,200 mm.

<b>AB 08.131 V</b>	850	800	800	1,000	<b>143830</b>
<b>AB 12.131 V</b>	1,250	1,200	1,200	1,000	<b>143890</b>

## Extendable shelf, sheet metal cladding, 3-sided rolling edge

For racks with clear bay width 900 mm, usable width 800 mm.

<b>AB 08.092 V</b>	850	800	800	1,000	<b>143810</b>
<b>AB 12.092 V</b>	1,250	1,200	1,200	1,000	<b>143870</b>

For racks with clear bay width 1,300 mm, usable width 1,200 mm.

<b>AB 08.132 V</b>	850	800	800	1,000	<b>143840</b>
<b>AB 12.132 V</b>	1,250	1,200	1,200	1,000	<b>143900</b>

## Extendable shelf, chipboard cladding

For racks with clear bay width 900 mm, usable width 800 mm.

<b>AB 08.093 V</b>	850	800	800	1,000	<b>143820</b>
<b>AB 12.093 V</b>	1,250	1,200	1,200	1,000	<b>143880</b>

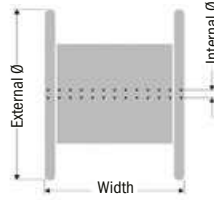
For racks with clear bay width 1,300 mm, usable width 1,200 mm.

<b>AB 08.133 V</b>	850	800	800	1,000	<b>143850</b>
<b>AB 12.133 V</b>	1,250	1,200	1,200	1,000	<b>143910</b>

Order no. = on stock

## ► Cable drum sizes as per DIN 46 391

Nominal size	External Ø (mm)	Internal Ø (mm)	Width (mm)	Clear bay width (mm)	Max. load-bearing capacity (kg)
N 5	470	56	470	900	100
N 6	630	56	470	900	100
N 7	710	80	550	900	250
N 8	800	80	550	900	650
N 9	900	80	710	1,100	800
N 10	1,050	80	710	1,100	1,000
N 12	1,250	80	930	1,300	1,500

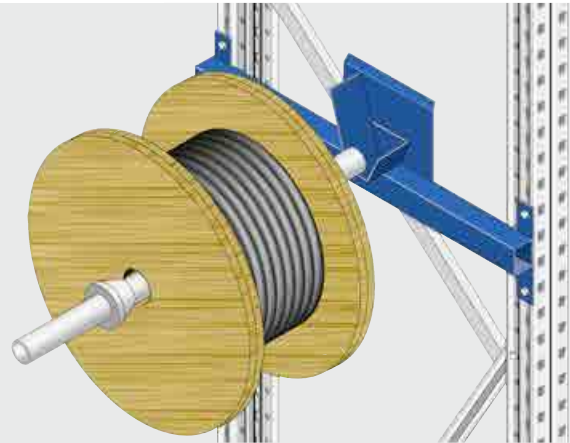


## Accessories

## Cable drum axles

Cable drum axles made of hollow profile for fitting the cable drum.

Item	Clear bay width (mm)	Design for	Cone type	for cable drums	Order no.
TRA KM 0905	900	Type KM	AK 33	N 5 - N 6	143410
TRA KM 0910		Type KM	AK 48	N 7 - N 8	143920
TRA KM 1105	1,100	Type KM	AK 33	N 5 - N 6	143930
TRA KM 1110		Type KM	AK 48	N 7 - N 8	143420
TRA KM 1115		Type KM	AK 60	N 9 - N 10	143430
TRA KM 1315	1,300	Type KM	AK 60	N 9 - N 12	143440



QT KM cable drum beam

## Cable drum beams

Cable drum beams made of square hollow profile are bolted onto the rack supports. Adjustment 50 : 50 mm, shaft fitting with tray as a load-dependent brake and for low-noise unwinding.

Item	Frame depth (mm)	Type	for cable drums	Order no.
QT KM 6208	850	with tray	N 5 - N 12	143370
QT KM 6210	1,050	with tray	N 5 - N 12	143390

## Cones

With the adjusting screw for centering the cable drum on the shaft.

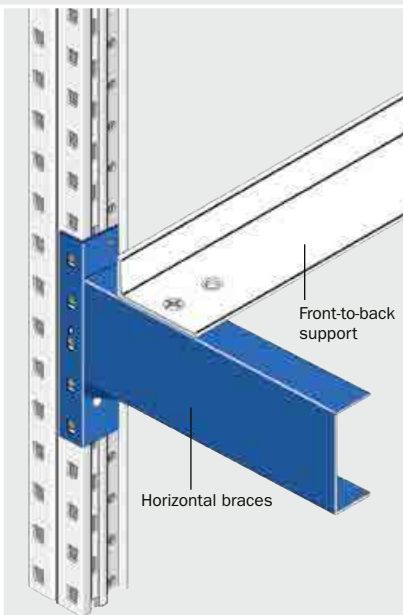
Item	for cable drums	Material	Order no.
AK 33	N 5 - N 6	Polyamide	143940
AK 48	N 7 - N 8	Polyamide	143350
AK 60	N 9 - N 12	Polyamide	143360

## U 100 horizontal braces

With welded 5-hook rear lips guarantee an interlocking connection with the rack supports. Adjustment 50 : 50 mm steps.

4 retaining pins (included) per pair are required to prevent unintentional removal.

With holes for mounting the front-to-back supports.

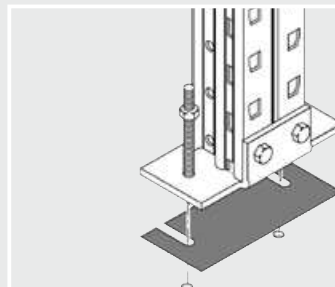
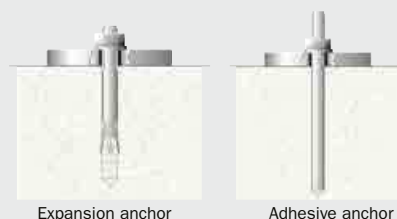


Item	Length (mm)	Pallet/container depth (mm)	Order no.
LVU 090	900	800	116930
LVU 110	1,100	1,000	116940
LVU 130	1,300	1,200	116950

## Floor anchor

The frame needs to be anchored to ensure the stability of the pallet racking systems. M10 expansion anchors are used for a normal C20/25 concrete floor; M10 adhesive anchors are used for floors containing magnesium.

Item		Order no.
BA 10 SL	M 10 expansion anchor	67030
BA 10 VA	M 10 adhesive anchor	67390



## Base shims

To compensate for uneven ground, galvanized.

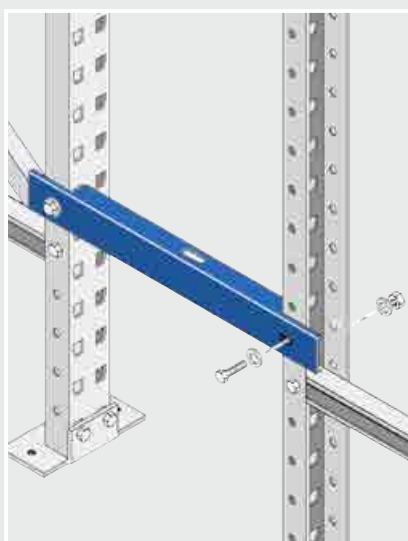
Item	Thickness (mm)	Support profile	Order no.
<b>for PR 350 pallet racking systems</b>			
AP 35.81	1	U 70	151000
AP 35.81	1	U 80	151000
AP 35.11	1	U 100	151020
<b>for PR 600 pallet racking systems</b>			
AP 60.91	1	all	143150
AP 60.92	2	all	155010

## Insulation plates

Insulation plates made of plastic are needed for each rack support in order to prevent corrosion on floors containing magnesium.

Item	Thickness (mm)	Support profile	Order no.
<b>for PR 350 pallet rackings</b>			
IP 35.81	1	U 70	151040
IP 35.81	1	U 80	151040
IP 35.11	1	U 100	151050
<b>for PR 600 pallet rackings</b>			
IP 60.91	1	all	155020

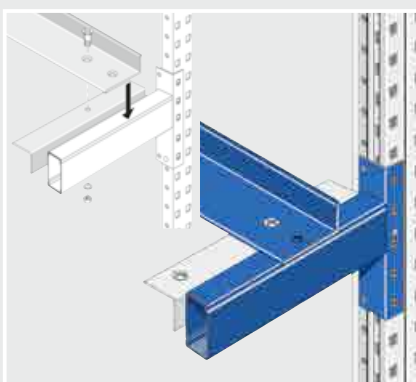
# Accessories for PR 350 and PR 600



## Spacers

Two single-row racks can be positioned one behind the other and then connected with spacers to form double-row racks. The length of the spacers is calculated from the difference between the rack depth and loading aids/loading unit plus 100 mm.

Item	Distance (mm)	Order no.
<b>D 50 L</b>	50	<b>151060</b>
<b>D 100 L</b>	100	<b>151070</b>
<b>D 150 L</b>	150	<b>151080</b>
<b>D 200 L</b>	200	<b>151090</b>
<b>D 250 L</b>	250	<b>151100</b>
<b>D 300 L</b>	300	<b>151110</b>
<b>D 350 L</b>	350	<b>151120</b>
<b>D 400 L</b>	400	<b>151130</b>
<b>D 450 L</b>	450	<b>151140</b>
<b>D 500 L</b>	500	<b>151150</b>



## Fixing angle for front-to-back supports

Fitting options for front-to-back supports, either designed for euro pallets, industrial pallets or DIN-box mesh box pallets.

Item	Clear bay width (mm)	Order no.
<b>AW 18</b>	1,800	<b>155030</b>
<b>AW 22</b>	2,200	<b>155040</b>
<b>AW 27</b>	2,700	<b>155050</b>
<b>AW 29</b>	2,900	<b>155060</b>
<b>AW 33</b>	3,300	<b>155070</b>
<b>AW 36</b>	3,600	<b>155080</b>
<b>AW 39</b>	3,900	<b>155090</b>

## Front-to-back support made of angled profile for pallet and container storage

For the fitting loading aids in pallet racking systems. Loading aids for each pair of front-to-back supports are required for containers without a stable support surface on longitudinal beams. In the case of transverse storage of pallets and containers, one pair of front-to-back supports are required for each loading aid. Locking brackets are required for fastening and securing against sliding on the longitudinal beams (as fig. above).

### Cross section L 80/40/6

Load capacity up to 1,000 kg

#### Without backstop

Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
<b>QA85</b>	850	800	<b>155100</b>
<b>QA105</b>	1,050	1,000	<b>155120</b>
<b>QA125-10</b>	1,050	1,200	<b>155260</b>
<b>QA125</b>	1,250	1,200	<b>155140</b>

#### With 30 mm backstop

Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
<b>QA85A</b>	850	800	<b>155110</b>
<b>QA105A</b>	1,050	1,000	<b>155130</b>
<b>QA125-10A</b>	1,050	1,200	<b>155280</b>
<b>QA125A</b>	1,250	1,200	<b>155150</b>

### Cross section L 100/50/6

Load capacity up to 1,500 kg

#### Without backstop

Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
<b>QA855</b>	850	800	<b>155160</b>
<b>QA1055</b>	1,050	1,000	<b>155180</b>
<b>QA1255-10</b>	1,050	1,200	<b>155270</b>
<b>QA1255</b>	1,250	1,200	<b>155200</b>

#### With 40 mm backstop

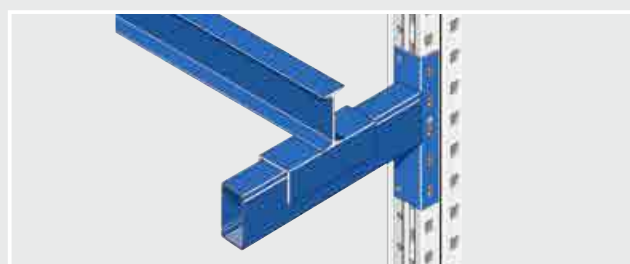
Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
<b>QA855A</b>	850	800	<b>155170</b>
<b>QA1055A</b>	1,050	1,000	<b>155190</b>
<b>QA1255-10A</b>	1,050	1,200	<b>155290</b>
<b>QA1255A</b>	1,250	1,200	<b>155210</b>



## Front-to-back supports

The front-to-back supports are placed between the beams. The load specifications apply for uniformly distributed loads. For point loads they are not suitable.

Item	Frame depth (mm)	Max. pallet weight with 2 front-to-back supports (kg)	Order no.
<b>TA-C-085-10</b>	850	1,000	<b>6700196</b>
<b>TA-C-105-10</b>	1,050	1,000	<b>6700197</b>



## Fork spacers

For storing wooden pallets, sheet metal packages, boxes, containers or other large storage objects. Ground clearance for forklifts 100 mm, max. load per piece 2,000 kg for evenly distributed loads.

Item	for frame depth (mm)	Order no.
<b>QU 851</b>	850	<b>155220</b>
<b>QU 1051</b>	1,050	<b>155230</b>
<b>QU 1251</b>	1,250	<b>155240</b>

Order no. = on stock



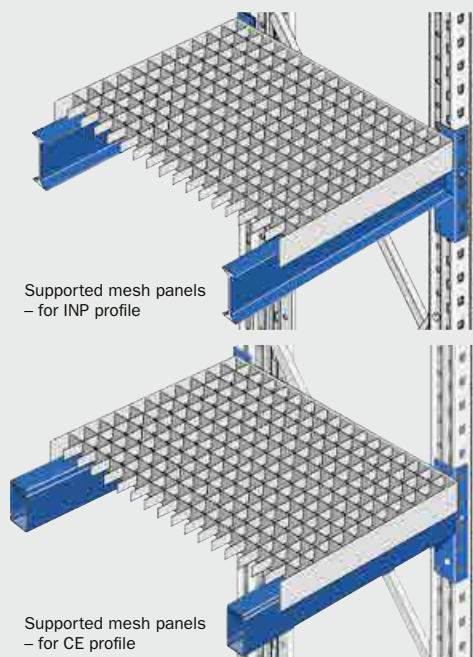
# Accessories for PR 350 and PR 600

## Mesh panels

Placed on longitudinal beams and locked in place. Mesh size 33 x 33 mm. Two-piece for clear bay width 2,200 mm. The load specifications apply for evenly distributed loads. The variants listed are not suitable for point loads. Other versions available on request.

### Supported mesh panels for INP and CE beam profiles

Item	Frame depth (mm)	Clear bay width (mm)	Support member height (mm)	Compartment load (kg)	Order no.
FGA18-085-30-134X	850	1,800	30	1,600	156090
FGA18-105-30-134X	1,050	1,800	30	1,400	156160
FGA18-125-35-140X	1,250	1,800	35	1,500	156230
FGA22-085-30-134X	850	2,200	30	2,000	156100
FGA22-105-30-134X	1,050	2,200	30	1,700	156170
FGA22-125-35-140X	1,250	2,200	35	1,900	156240
FGA27-085-30-134X	850	2,700	30	2,500	156110
FGA27-105-30-134X	1,050	2,700	30	2,100	156180
FGA27-125-35-140X	1,250	2,700	35	2,300	156250
FGA29-085-30-134X	850	2,900	30	2,700	156120
FGA29-105-30-134X	1,050	2,900	30	2,300	156190
FGA29-125-35-140X	1,250	2,900	35	2,500	156260
FGA33-085-30-134X	850	3,300	30	3,000	156130
FGA33-105-30-134X	1,050	3,300	30	2,600	156200
FGA33-125-35-140X	1,250	3,300	35	2,900	156270
FGA36-085-30-134X	850	3,600	30	3,300	156140
FGA36-105-30-134X	1,050	3,600	30	2,800	156210
FGA36-125-35-140X	1,250	3,600	35	3,100	156280
FGA39-085-30-134X	850	3,900	30	3,500	156150
FGA39-105-30-134X	1,050	3,900	30	3,100	156220
FGA39-125-35-140X	1,250	3,900	35	3,400	156290



## Sheet steel panels

C-shaped bevel. Locking in depth direction through short-side overlap of the beams. Individual or multiple covers can be used. The load specifications apply for evenly distributed loads.

Clear bay width (mm)	Panel width (mm)	Number of panels
1,800	300	6
2,200	300	6
	200	2
2,700	300	9
2,900	300	9
	200	1

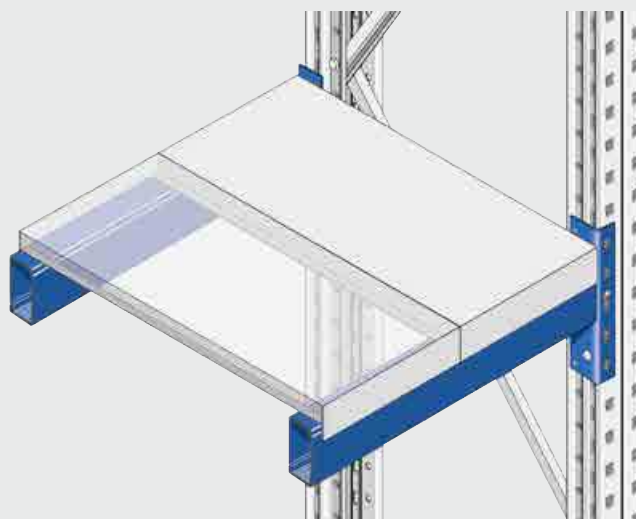
Clear bay width (mm)	Panel width (mm)	Number of panels
3,300	300	11
3,600	300	12
3,900	300	13

### Panel width 200 mm

Item	for frame depth (mm)	Load (kg)	Order no.
FPA 20-070-40-40X	700	740	193140
FPA 20-085-40-40X	850	680	193150
FPA 20-105-40-40X	1,050	550	193160
FPA 20-125-40-40X	1,250	460	193170

### Panel width 300 mm

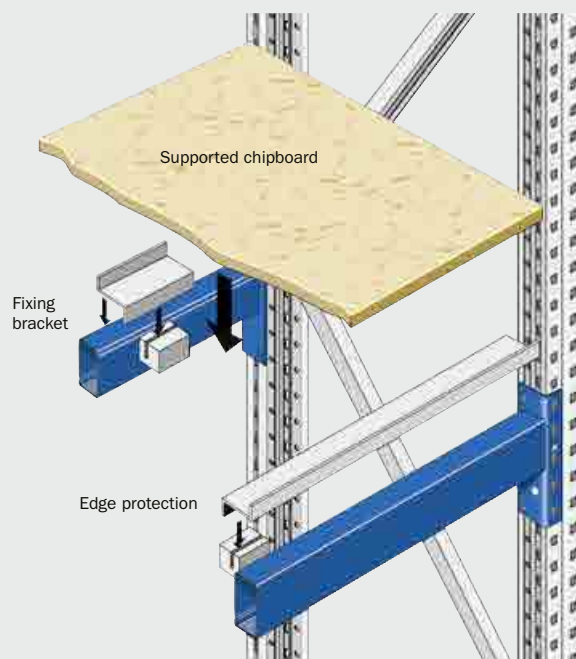
Item	for frame depth (mm)	Load (kg)	Order no.
FPA 30-070-40-30X	700	270	193100
FPA 30-070-40-50X		730	193180
FPA 30-085-40-30X	850	340	193110
FPA 30-085-40-50X		700	193190
FPA 30-105-40-30X	1,050	200	193120
FPA 30-105-40-50X		630	193200
FPA 30-125-40-30X	1,250	190	193130
FPA 30-125-40-50X		500	193210



# Accessories for PR 350 and PR 600, safety accessories for pallet racking systems

## Chipboard

Placed on the profile of the INP or CE longitudinal beams. Secured against moving with fixing brackets. Two-piece for clear bay widths exceeding 3,300 mm. The load specifications apply for evenly distributed loads. The variants listed are not suitable for point loads. Other versions available on request. Surface: untreated.



## Edge protection

For 38 mm chipboard and INP/CE longitudinal beams, incl. spacers.

Item	Clear bay width (mm)	Order no.
KN 1824	1,800	157140
KN 2224	2,200	157150
KN 2724	2,700	157160
KN 2924	2,900	157170
KN 3324	3,300	157180
KN 3624	3,600	157190
KN 3924	3,900	157200

## Fixing bracket

For 38 mm chipboard and INP/CE longitudinal beams. 4 fixing brackets are required for the clear bay width 1,800 to 2,900 mm and 8 for the clear bay width 3,300 to 3,900 mm.

FSHB 24	Fixing bracket, incl. spacer block (plastic)	1 pc.	156910
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## Corner protector

Sturdy, angle profile with strong floor plate, including an anchor for attachment to the hall floor.

ES 400 C corner protector



Item	Height (mm)	Order no.
ES 400 C	400	157390

## 38 mm thick, normal compression for INP and CE profiles

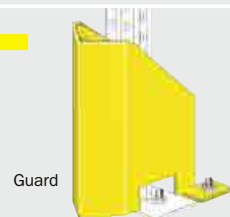
Item	Frame depth (mm)	Clear bay width (mm)	Comp. load (kg)	Order no.
FSA 18-085-38-NX	850	1,800	1,300	306840
FSA 18-105-38-NX	1,050	1,800	950	306980
FSA 18-125-38-NX	1,250	1,800	600	307120
FSA 22-085-38-NX	850	2,200	1,600	306850
FSA 22-105-38-NX	1,050	2,200	1,100	306990
FSA 22-125-38-NX	1,250	2,200	750	307130
FSA 27-085-38-NX	850	2,700	2,000	306860
FSA 27-105-38-NX	1,050	2,700	1,400	307000
FSA 27-125-38-NX	1,250	2,700	900	307140
FSA 29-085-38-NX	850	2,900	2,200	306870
FSA 29-105-38-NX	1,050	2,900	1,500	307010
FSA 29-125-38-NX	1,250	2,900	1,000	307150
FSA 33-085-38-NX	850	3,300	2,500	306880
FSA 33-105-38-NX	1,050	3,300	1,700	307020
FSA 33-125-38-NX	1,250	3,300	1,100	307160
FSA 36-085-38-NX	850	3,600	2,700	306890
FSA 36-105-38-NX	1,050	3,600	1,900	307030
FSA 36-125-38-NX	1,250	3,600	1,200	307170
FSA 39-085-38-NX	850	3,900	2,900	306900
FSA 39-105-38-NX	1,050	3,900	2,000	307040
FSA 39-125-38-NX	1,250	3,900	1,300	307180

## 38 mm thick, highly compressed for INP and CE profiles

Item	Frame depth (mm)	Clear bay width (mm)	Comp. load (kg)	Order no.
FSA 18-085-38-HX	850	1,800	2,100	306910
FSA 18-105-38-HX	1,050	1,800	1,500	307050
FSA 18-125-38-HX	1,250	1,800	1,000	307190
FSA 22-085-38-HX	850	2,200	2,600	306920
FSA 22-105-38-HX	1,050	2,200	1,900	307060
FSA 22-125-38-HX	1,250	2,200	1,300	307200
FSA 27-085-38-HX	850	2,700	3,200	306930
FSA 27-105-38-HX	1,050	2,700	2,300	307070
FSA 27-125-38-HX	1,250	2,700	1,600	307210
FSA 29-085-38-HX	850	2,900	3,500	306940
FSA 29-105-38-HX	1,050	2,900	2,500	307080
FSA 29-125-38-HX	1,250	2,900	1,700	307220
FSA 33-085-38-HX	850	3,300	4,000	306950
FSA 33-105-38-HX	1,050	3,300	2,800	307090
FSA 33-125-38-HX	1,250	3,300	1,900	307230
FSA 36-085-38-HX	850	3,600	4,000	306960
FSA 36-105-38-HX	1,050	3,600	3,100	307100
FSA 36-125-38-HX	1,250	3,600	2,100	307240
FSA 39-085-38-HX	850	3,900	4,000	306970
FSA 39-105-38-HX	1,050	3,900	3,300	307110
FSA 39-125-38-HX	1,250	3,900	2,300	307250

## Guard

To protect the rack supports against being damaged by ground conveyors, 140 mm wide, U-shaped, including 3 floor anchors.



Item	Height (mm)	Order no.
AS 400	400	157420

Order no. = on stock



RAL 1021

MARKING

**Security regulations**

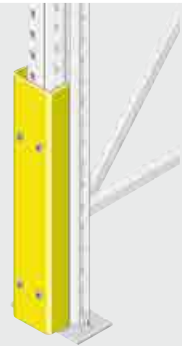
Fixed racks that are served by non-track-bound ground conveyors require adequate protection against damage to the rack frame on the corners and gangways

# Safety accessories for pallet racking systems

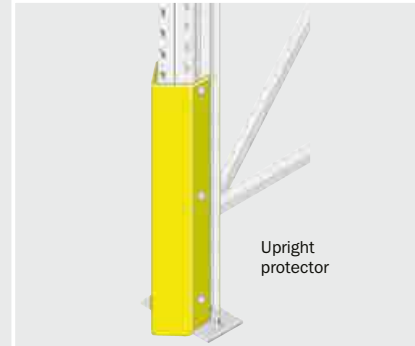
**Upright protector with rubber buffer**

U-profile, 750 mm high, including 4 rubber-metal buffers.

Upright protector with rubber buffer



Upright protector



Item	from profile	for support profile	Order no.
STS 100G-750	U 100	P 75, U 70, U 80	158501
STS 110G-750	U 110	P 90	158502
STS 120G-750	U 120	P 100, U 100	158503

**Upright protector**

For reinforcing the front rack supports and as a protection against damage, 750 mm high, including fixing kit.

**for PR 350 system:**

Item	for support width (mm)	Height (mm)	for support profile	Order no.
STS 70-3-400	70	400	U 70	158500
STS 70-3-750		750	U 70	158570
STS 80-3-400	80	400	U 80	158510
STS 80-3-750		750	U 80	158580
STS 100-3-400	100	400	U 100	158520
STS 100-3-750		750	U 100	158590

**for PR 600 system:**

Item	for support width (mm)	Height (mm)	for support profile	Order no.
STS 75-6-400	75	400	P 75	158530
STS 75-6-750		750	P 75	158600
STS 90-6-400	90	400	P 90	158540
STS 90-6-750		750	P 90	158610
STS 100-6-400	100	400	P 100	158550
STS 100-6-750		750	P 100	158620
STS 120-6-400	120	400	P 120	158560
STS 120-6-750		750	P 120	158630

**Buffer**

Particularly vulnerable areas of pallet racking systems, such as gangways or heavily frequented passages, require sturdy buffers.

**Form B**

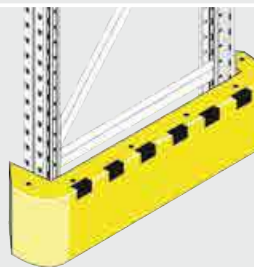
400 mm high, 245 mm wide, including floor anchors. For support profiles Type P 75 and P 90.

Item	for frame depth (mm)	Order no.
RS24 0854 B	850	151510
RS24 1054 B	1,050	151520
RS24 1254 B	1,250	151530
RS24 1804 B	1,800	151540
RS24 2204 B	2,200	151550
RS24 2354 B	2,350	151560
RS24 2604 B	2,600	151610

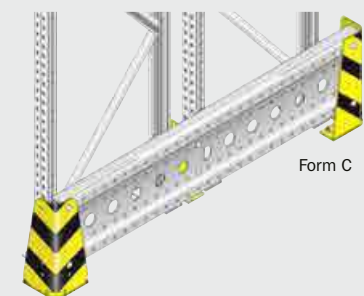
**Form B**

400 mm high, 265 mm wide, including floor anchors. For support profiles Type P 100 and P 120.

RS26 0854 B	850	151400
RS26 1054 B	1,050	151410
RS26 1254 B	1,250	151420
RS26 1804 B	1,800	151430
RS26 2204 B	2,200	151440
RS26 2354 B	2,350	151450
RS26 2604 B	2,600	151500



Form B



Form C

**Form C**

With a sturdy C-Sigma profile, 400 mm high, 75 mm wide, including floor anchor, with additional support above 1,800 mm long.

Item	for frame depth (mm)	Order no.
RS 854 C	850	157430
RS 1054 C	1,050	157440
RS 1254 C	1,250	157450
RS 1804 CZ	1,800	157690
RS 2204 CZ	2,200	157700
RS 2354 CZ	2,350	157710
RS 2604 CZ	2,600	157720



# Safety accessories for pallet racking systems

## Mesh back panel cladding

The rear sides of free-standing racks must be secured to prevent the loading units from falling out. Observe the applicable safety regulations or ask our technical consultants.

The mesh back panels are made of mesh mats with defined lengths and heights. They are combined depending on the rack height and clear bay widths. The mesh spacing is 100 x 50 mm. A GRM mesh segment consists of 2 C-profiles and the necessary mesh mats. Depending on the number of mesh mats, mesh connectors and compensating rods are required to secure the bracket sets (including fixing kit) – please order separately.

Spacing: 180 mm outer edge of the rack supports – GRM inner edge;  
220 mm outer edge of the rack supports – inner edge GRM.

## Ordering example

**For 3,600 mm high rack you require:**

1 723 mm high mesh segment height 723 mm and  
2 1,273 mm high mesh segments.

**For a 3,600 mm high pallet racking and  
the bay width 3,900 mm order:**

1x GRM-3907, 2x GRM-3912, 4x bracket set,  
4x compensating rods, 4x mesh connectors



Rack height in mm	2,500	3,000	3,600	4,100	4,700	5,200	5,800	6,300	6,900	7,400
Lower dimension in mm	345	45	45	45	45	45	45	45	45	45
The number of required mesh segments										
H 773 mm	1	2	1	2	1	–	1	–	2	–
H 1,173 mm	–	–	–	2	2	1	4	3	1	5
H 1,273 mm	1	1	2	–	1	3	–	2	3	1
No. of console sets	3	4	4	5	5	5	6	6	7	7
No. of compensating rods	2	2	4	4	4	4	6	6	6	6

## Mesh segment height 773 mm

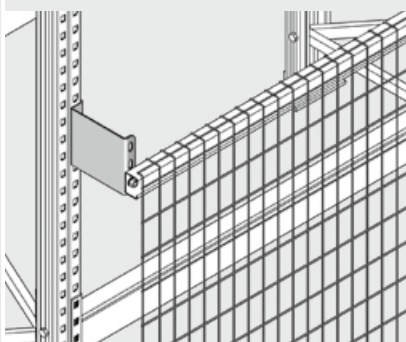
Item	Clear bay width (mm)	Order no.
GRM-0907	900	6686319
GRM-1107	1,100	6686320
GRM-1307	1,300	6686321
GRM-1807	1,800	6686328
GRM-2207	2,200	6686329
GRM-2707	2,700	6686330
GRM-2907	2,900	6686331
GRM-3307	3,300	6686332
GRM-3607	3,600	6686333
GRM-3907	3,900	6686334

## Mesh segment height 1,173 mm

Item	Clear bay width (mm)	Order no.
GRM-0911	900	6686322
GRM-1111	1,100	6686323
GRM-1311	1,300	6686324
GRM-1811	1,800	6686336
GRM-2211	2,200	6686337
GRM-2711	2,700	6686338
GRM-2911	2,900	6686339
GRM-3311	3,300	6686340
GRM-3611	3,600	6686341
GRM-3911	3,900	6686342

## Mesh segment height 1,273 mm

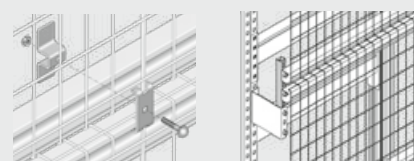
Item	Clear bay width (mm)	Order no.
GRM-0912	900	6686325
GRM-1112	1,100	6686326
GRM-1312	1,300	6686327
GRM-1812	1,800	6686344
GRM-2212	2,200	6686345
GRM-2712	2,700	6686346
GRM-2912	2,900	6686347
GRM-3312	3,300	6686348
GRM-3612	3,600	6686349
GRM-3912	3,900	6686350



## Console set (incl. fixing kit)

Item	Length (mm)	Frame depth (mm)	Order no.
<b>without consideration of a end stop</b>			
GRM-K2-060-S	60	850, 1,250	6690045
GRM-K2-130-S	130	1,050	6690046
<b>with consideration of a end stop</b>			
GRM-K2-180-S	180	850, 1,250	6690047
GRM-K2-340-S	340	1,050	6690050

An adapter plate is required to install brackets on U 70 profile.  
Further information is available on request.

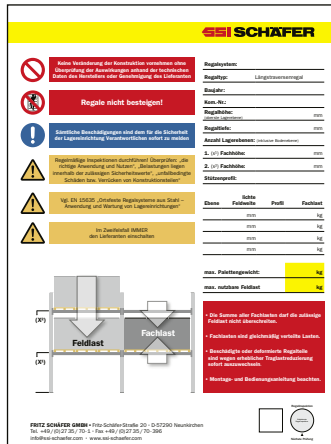
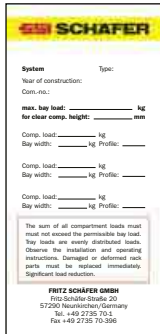


Item	Order no.
<b>Mesh connector</b> (see table above)	
GRM-GVS	6687406
<b>Compensating rods</b> (incl. fixing kit)	
GRM-ASS	6686298

Order no. = on stock

► **Mandatory labeling**

The regulations of the trade associations demand labeling of rack facilities with all the necessary load specifications



## Safety accessories for pallet racking systems

## Load signs

Item	W x H (mm)	Material	Order no.
<b>PRTS 7050 LTR</b>	450 x 600	Aluminum, incl. fixing kit	<i>on req.*</i>
<b>PRTS 7050 QTR</b>	450 x 600	Aluminum, incl. fixing kit	<i>on req.*</i>
<b>TS 0615</b>	60 x 150	PVC adhesive film	<i>on req.*</i>

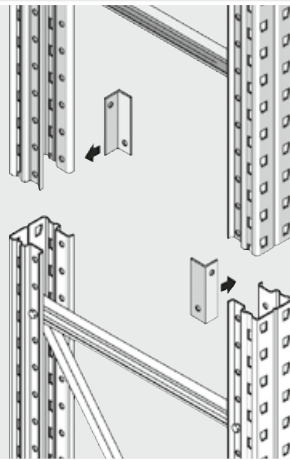
\* The technical data is defined via a time sheet. It is offered and invoiced as part of the price of the sign.

### Frame extension at row end

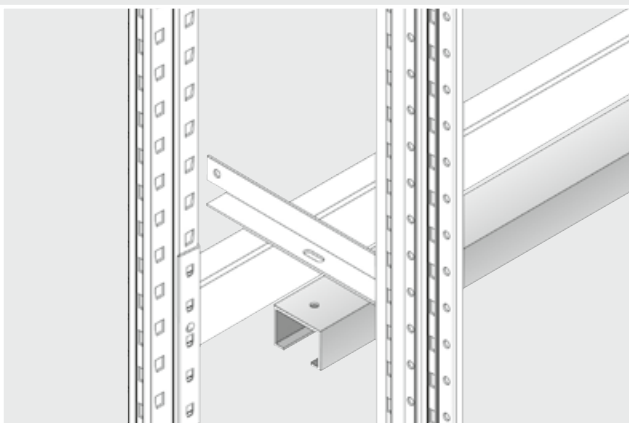
Protects against lower units from falling out of the sides, 500 mm high including fixing kit.

Surface: Dust Gray, RAL 7037 or galvanized.

**Note:** Frame extensions at row end cannot be used in conjunction with mesh back panels.




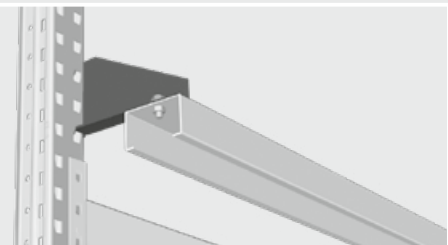
Item	System	Frame profile (mm)	Frame depth (mm)	Surface	Order no.
AN 78	PR 350	70	850	RAL 7037	33160
AN 68	PR 600	75	850	Galvanized	34870
AN 88	PR 350	80	850	RAL 7037	33170
AN 98	PR 600	90	850	Galvanized	34860
AN 18	PR 350	100	850	RAL 7037	33180
AN 71	PR 350	70	1,050	RAL 7037	33190
AN 61	PR 600	75	1,050	Galvanized	34880
AN 81	PR 350	80	1,050	RAL 7037	33200
AN 91	PR 600	90	1,050	Galvanized	34840
AN 11	PR 350	100	1,050	RAL 7037	33210
AN 72	PR 350	70	1,250	RAL 7037	33220
AN 62	PR 600	75	1,250	Galvanized	34890
AN 82	PR 350	80	1,250	RAL 7037	33230
AN 92	PR 600	90	1,250	Galvanized	34850
AN 12	PR 350	100	1,250	RAL 7037	33240



## End stops


Double-row racks require end stops if the distance between the loading aids or the load unit is less than 100 mm. On single-row racks, end stops prevent the load units from unintentionally falling out. Depending on the requirements, a 60 or 100 mm wide profile can be used.

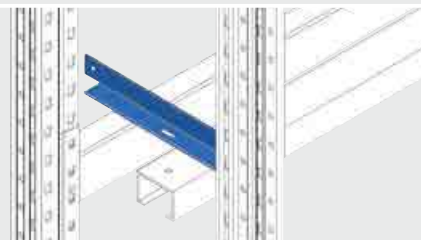
Item	Clear bay width (mm)	Profile	Order no. 
DSC060FW1900	1,900	C 60/40	6689260
DSC060FW2300	2,300	C 60/40	6689264
DSC060FW2700	2,700	C 60/40	6689268
DSC100FW2900	2,900	C 100/60	6689270
DSC100FW3300	3,300	C 100/60	6689274
DSC100FW3600	3,600	C 100/60	6689277
DSC100FW3900	3,900	C 100/60	6689280



### Accessories for end stops for single-row racks

Single-row racks require 2 brackets with 126 mm spacing for each end stop.

Item	for frame depth (mm)	Order no. 
<b>DSC-K105</b>	1,050	<b>6689690</b>



### Accessories for end stops for double-row racks

For double-face rack rows require 2 spacers as brackets for each end stop.

Further information is available on **page D14**.

# Storage and storage space marking

The potentials for accelerating logistics processes and, thus, permanently reducing costs are extremely high.

Both manual and computer-controlled warehouses can be optimized with visual warehouse organization procedures and systems.

Rapid and safe storage, retrieval and relocation significantly enhance the employees' productivity. Pickers and forklift drivers are guided to the right location in the shortest possible time.

The solution is a clearly understandable guidance system that can be implemented quickly and easily. At the same time, the investment to install the visual warehouse organization is particularly low.

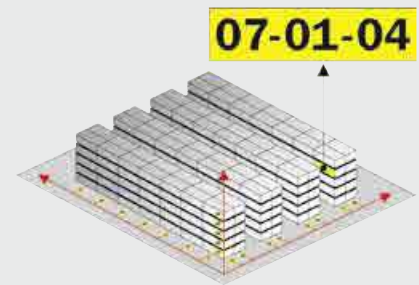
Systematic numbering of all storage spaces and the number key form the basis and the prerequisite for efficient warehouse organization.

Each storage space is the signed a unique and unmistakable code, which consists of at least three coordinates: rack row, longitudinal position and height position.

Additional information can also be printed on the labels such as storage areas, check digits, barcodes and position arrows.

A diverse range of fonts, colors and sizes for signs, labels, label holders and ground markings are available.

Please inquire if you would like a version that is not listed here.



## Further versions

on request



**5-128-07**

**012-05-3**

**06-03-05**

from 2,000 units on request

### Storage space labels

Self-adhesive polyethylene film,  
Color: yellow, lettering: black,  
up to 8 characters including separators.  
Minimum order quantity: 100 pieces.

#### Quantity scale: 1 – 1,999 pieces

Item	W x H (mm)	Order no.
R SK 1230 SG	120 x 30	189900
R SK 1438 SG	140 x 38	189901
R SK 2265 SG	220 x 65	189902

**5-128-07**

**012-05-3**

**06-03-05**

from 2,000 units on request

### Storage space labels

Self-adhesive polyethylene film,  
Color: white, lettering: black,  
up to 8 characters including separators.  
Minimum order quantity: 100 pieces.

#### Quantity scale: 1 – 1,999 pieces

Item	W x H (mm)	Order no.
R SK 1230 SW	120 x 30	189903
R SK 1438 SW	140 x 38	189904
R SK 2265 SW	220 x 65	189905

Order no. = on stock



## Storage and storage space marking

**Label versions**

Colors: yellow, white. Other surface, normal or retro-reflective, self-adhesive or magnetic

**Position information**

one or more digits, numeric or alphanumeric

**Check digit**

with or without, inverted or normal

**Barcode**

with or without, various barcode types, various positions on the label (left, right, top, bottom), with or without clear text information

**Lettering**

Colors: signal black, blue, red. Other font heights scalable in steps, fonts with or without serifs

**Separators**  
with or without various signs

**Logo/company symbol**  
with or without text or graphics

**Border**  
with or without

**Position arrow**

with or without, pointing up or down, various positions on the label (left, right)

**Storage space labels**

Self-adhesive polyethylene film, Color: yellow, lettering: black, up to 8 characters including separators, additionally with barcode. Minimum order quantity: 100 pieces.

**Quantity scale: 1 – 1,999 pieces**

Item	W x H (mm)	Order no.
R SK 1230 SGB	192 x 38	189906
R SK 1438 SGB	224 x 38	189907
R SK 2265 SGB	380 x 65	189908



from 2,000 units on request

**Storage space labels**

Self-adhesive polyethylene film, Color: white, lettering: black, up to 8 characters including separators, additionally with barcode. Minimum order quantity: 100 pieces.

**Quantity scale: 1 – 1,999 pieces**

Item	W x H (mm)	Order no.
R SK 1230 SWB	192 x 38	189909
R SK 1438 SWB	224 x 38	189910
R SK 2265 SWB	380 x 65	189911



from 2,000 units on request

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix

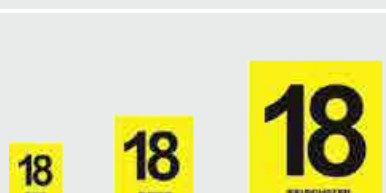
# Storage and storage space marking



## Floor markings

For the identification of pallet and (block) storage areas or driving and walking lanes, self-adhesive, thickness: 0.3 mm, color: yellow.

Item	Forms	PU	Order no.
R BM K	Circle	1	189917
R BM R	Circular blank	50	189918
R BM T	T-piece	10	189919
R BM KR	Cross	1	189920
R BM E	Corner piece with label	10	189921 on req.



## Rack row signs

Made of PVC, impact-resistant, color: yellow, Font: black, up to 2 characters, including fixing kit.

Item	W x H (mm)	Order no.
R RZ 20200	200 x 200	189912
R RZ 30300	300 x 300	189913
R RZ 50500	500 x 500	189914



## Rack row angle sign

Made of PVC, impact-resistant, color: yellow, Font: black, up to 3 characters, including fixing kit.

Item	Length (mm)	Order no.
R RW 30300	300 x 300	189915



## Label holder

Self-adhesive plastic label holders, total height 33 mm (for label height 30 mm). Without label inserts.

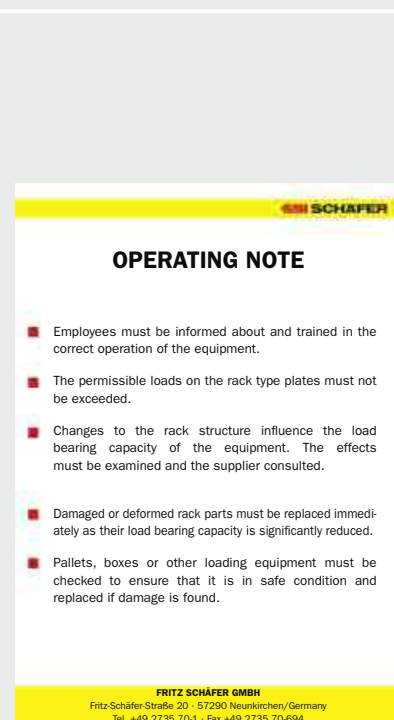
Item	Length (mm)	Order no.
K EH 0880	780	442518
K EH 1080	980	442538
K EH 1280	1,180	442558
K EH 1350	1,250	442565
K EH 1800	1,700	442610
K EH 2200	2,100	442650
K EH 2700	2,600	442700



## Push-in label

Pre-perforated labels made of 120 g/m² paper, white, 20 labels on one DIN A4 sheet for self printing. Label format: 100 x 30 mm.

Item	Format (form)	Order no.
R EE 1030	DIN A4	189916



## Operating note / Safety note

FEM regulations for storage facilities.

Made of aluminum composite, W 420 x H 600 mm, multi-colored printing, incl. fixing kit.

Item	Order no.	Item	Order no.
TS 7050 BH	Operating note 992305	TS 7050 SH	Safety note 992305

Order no. = on stock





## PR 600 front-to-back beam racks

SSI SCHAEFER's front-to-back beam racks are outstanding for single-space storage. They are the ideal solution for this warehousing tasks. They make optimum use of the room height as almost none of the construction elements restrict the height of the goods being stored.

Front-to-back beam racks are especially suitable for order picking from laterally positioned containers and pallets. The

order picking height can be used optimally. The single-row design is also beneficial for high racks, especially when heavy goods are stored in high stacks.

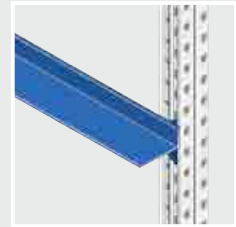
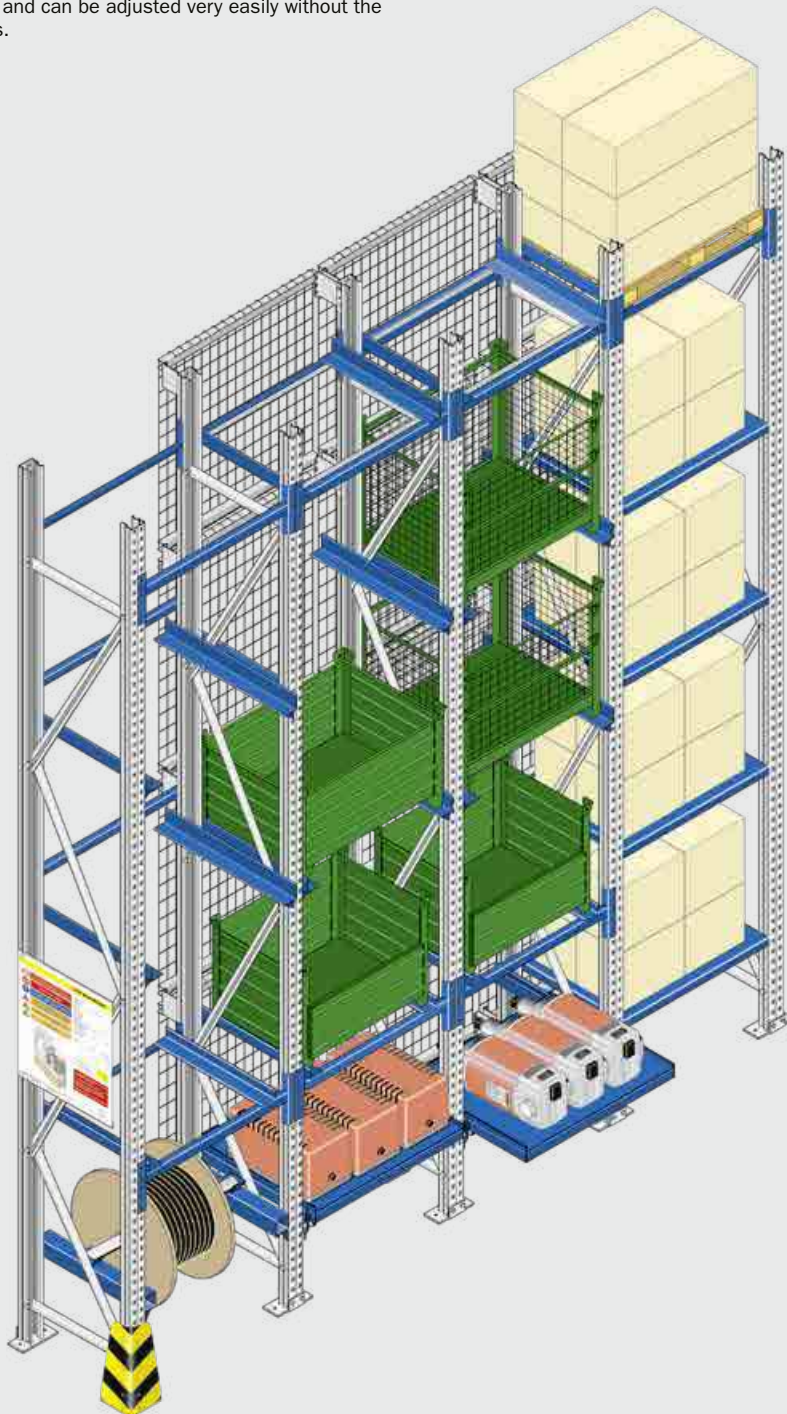




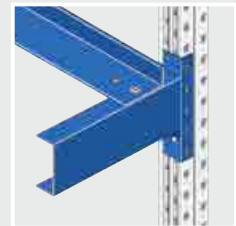
# Staging PR 600 front-to-back beams

## Advantages of the front-to-back beam rack:

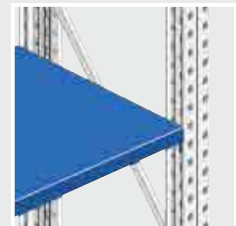
Virtually no restriction of storage height due to construction elements enables you to make optimum use of the room height. Front-to-back beam racks are especially suitable for order picking from laterally positioned containers and pallets. The crosspieces are self-locking and can be adjusted very easily without the use of tools.



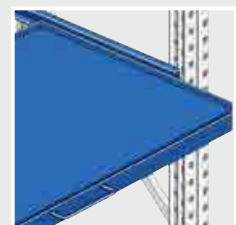
Front-to-back beam



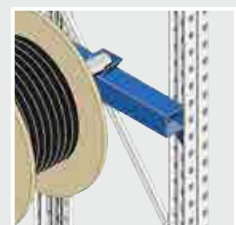
Front-to-back support with horizontal brace



Shelf



Extendable shelf



Cable drum beams



Corner protector



Load sign

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

## Drive-in and drive-through racking

SSI SCHÄFER's pallet racking systems are practically designed for use as drive-in and drive-through racking. This storage system proves its value especially when storing a small range of different articles in very large quantities. It provides maximum storage capacity in a minimum spatial volume.

The systems are loaded and unloaded using conventional forklifts that drive into the rack channels. Although direct access to all the stored pallets is only

possible to a limited extent, drive-in racking systems are an integral part of modern warehouse logistics, typically in transshipment warehouses.

Drive-in and drive-through pallet racking systems are accessed with front forklifts or reach trucks. The typical applications include the food and non-food industry, in particular a small range of articles stored in large quantities, such as fruit, fruit juices or care products. The design of the

front-to-back supports is an important aspect of the functionality of drive-in and drive-through racking. Preferably, drive-in and drive-through racking should be equipped with floor rails to protect the rack supports and provide forklift drivers with better guidance.

Consider the following system features if you are planning a new warehouse or intend to restructure an existing facility. We help you to plan and develop the most efficient logistics solution.



Further information

on request



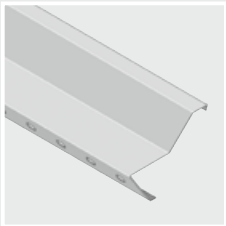
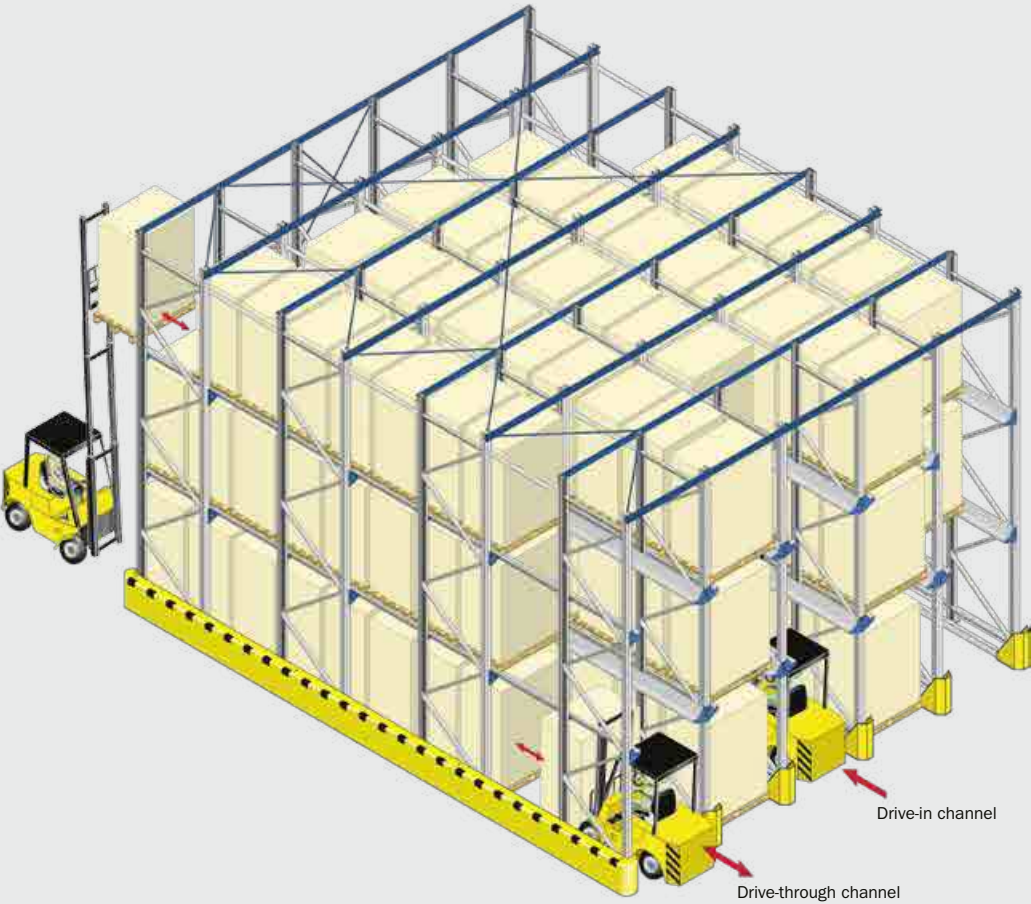
# Staging drive-in and drive-through racking

**Advantages of the drive-in racking:**

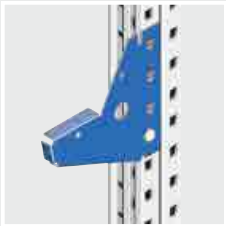
Maximum storage capacity with minimum spatial volume is the unique characteristic of drive-in racking systems. The racks are loaded and unloaded from one side. The channels can only be accessed in one direction.

**Advantages of the drive-through racking:**

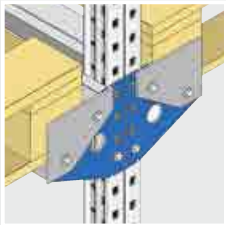
Free-standing rack units can be accessed from both sides. A forklift can be driven through the racks. The advantage is that loading and unloading can be carried out separately.



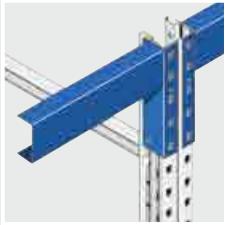
Front-to-back support



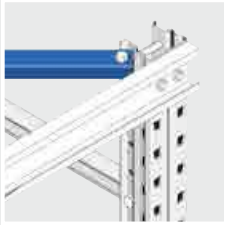
Attachment bracket



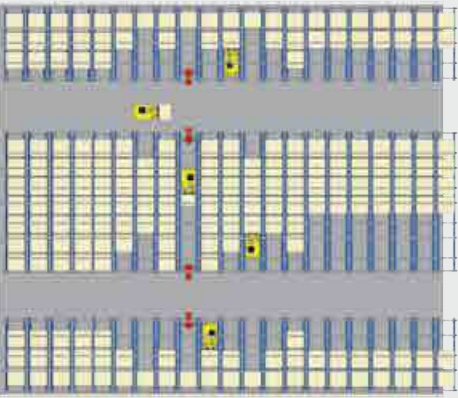
End stop



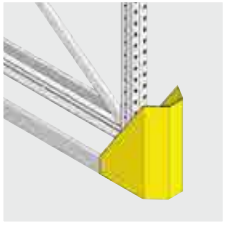
Horizontal brace



Horizontal cross brace



Buffer



Guard and floor rails

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix

## Mobile racking for pallets and long goods

Available storage spaces cannot always be expanded to any desired extent. Space needs to be saved for new production areas. Mobile racking storage is worth considering wherever these requirements exist. Modern management concepts and sound planning enable previously unimagined options.

The mobile racking system is both simple and impressive. Any desired number of rack rows are mounted on traveling units and moved on rails using an electric motor. The access aisle is only opened where it is currently needed.

Consider these system advantages if you are planning a new warehouse or intend to restructure an existing facility.

- ▶ 85% increase in capacity with the same surface area.
- ▶ 60% less construction volume if you are planning a new construction.
- ▶ 40% space savings that you can use without having to construct a new building.

We help you to plan and develop the most efficient logistics solution.



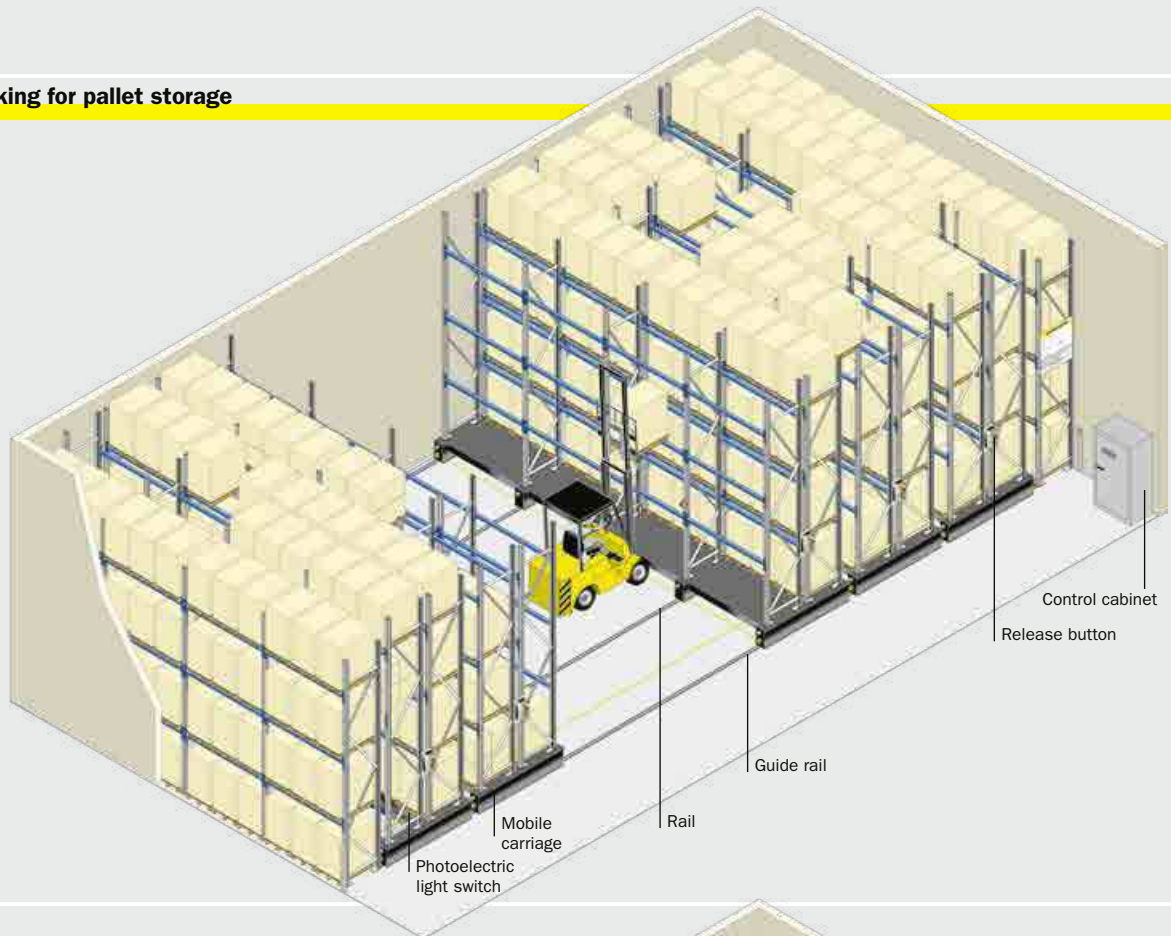
**Changed frame depth in 2021**

for **Mobile Racking Systems** from 1,050 mm to **1,100 mm**

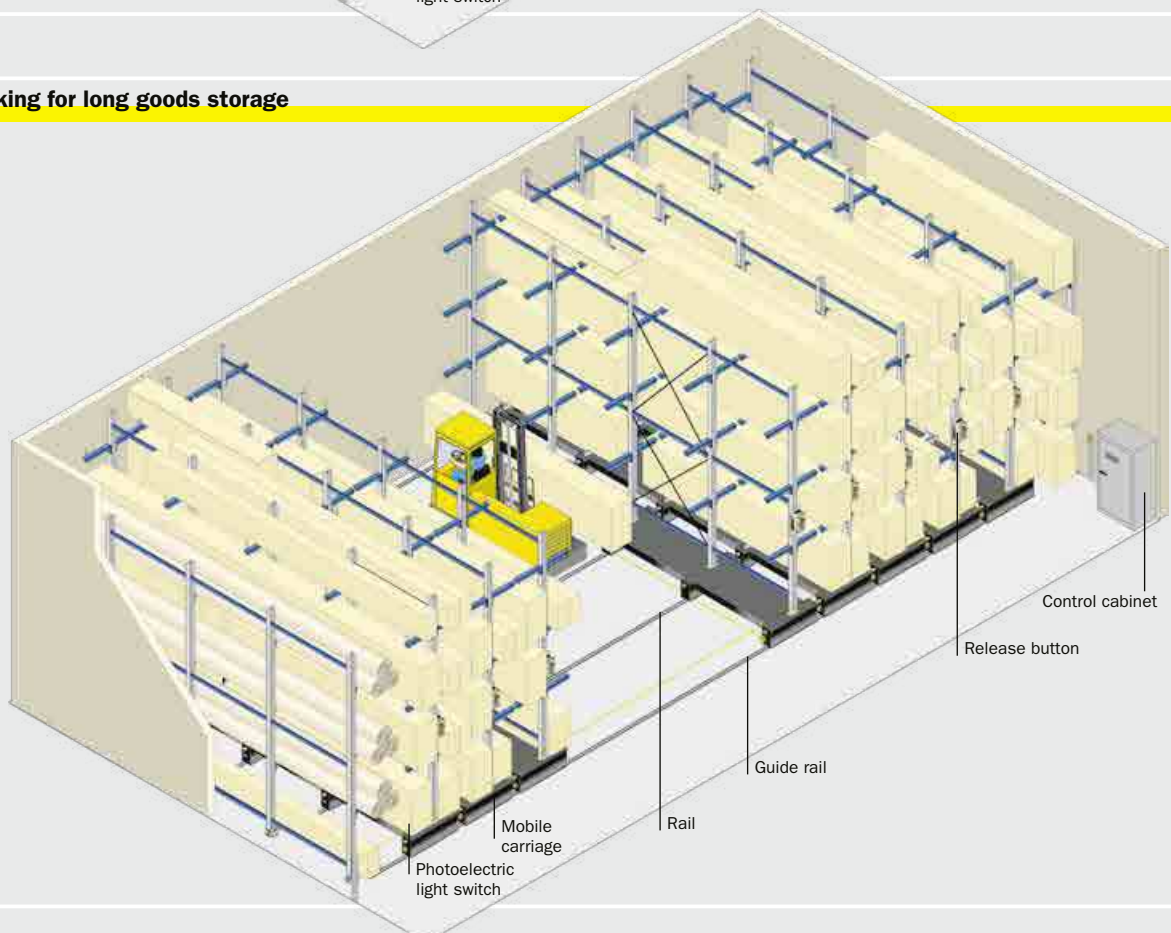


# Mobile rack staging

## Mobile racking for pallet storage



## Mobile racking for long goods storage


Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix



## Pallet live storage racking

Pallet live storage racking systems are used as buffer storage for shipping, in production and also for incoming and outgoing goods. The racks are usually accessed using front forklifts and reach trucks. Manual lifting trolleys can also be used for the lowest level on the removal side. The storage utilizes the first-in-first-out principle (FiFo). Stored goods with an expiry date or product batches are easier to monitor. The design of the gravity roller conveyors can be

adapted to the specific goods using different roll divisions and brake rollers. The other advantages of this storage system are the optimum use of surface area and volume as well as the ability to integrate the system into the automated material flow.

Furthermore, the pallets can also be accessed on multiple stories with additional order picking levels or tunnels.



**Further information**

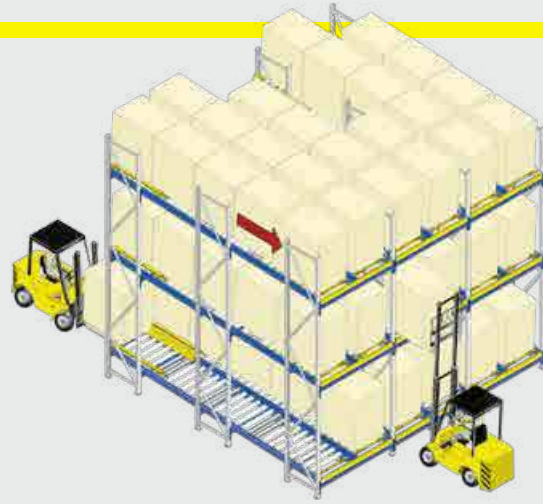
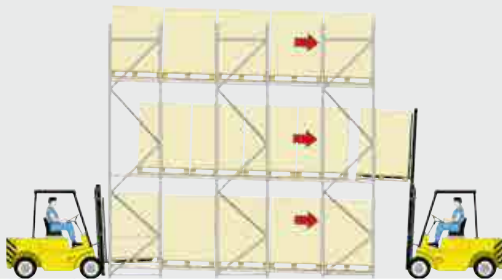
on request



# Staging live storage and pushback racks

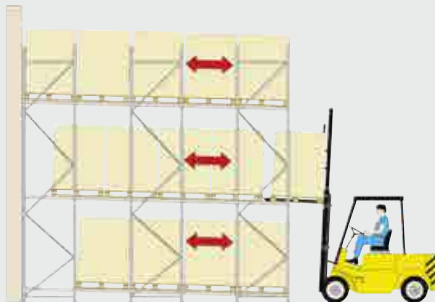
## Pallet live storage

The live storage warehouse consists of gravity roller conveyors installed in a rack as live storage levels. The space it is used highly efficiently as multiple channels are positioned next to each other and the room height is optimally utilized. The storage and retrieval sides are separated. Roller conveyors provide both storage and transport functions.



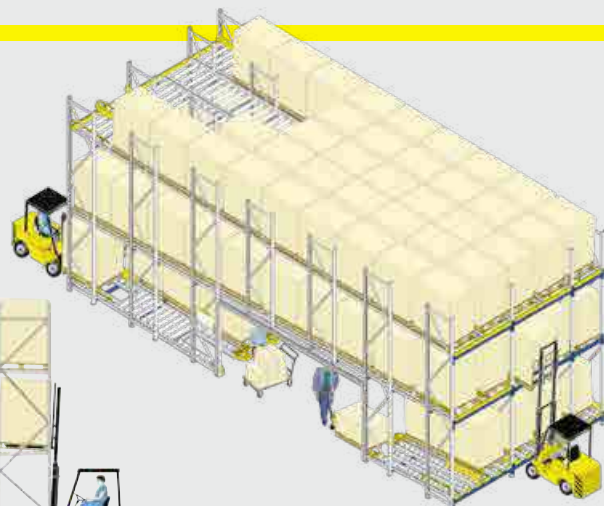
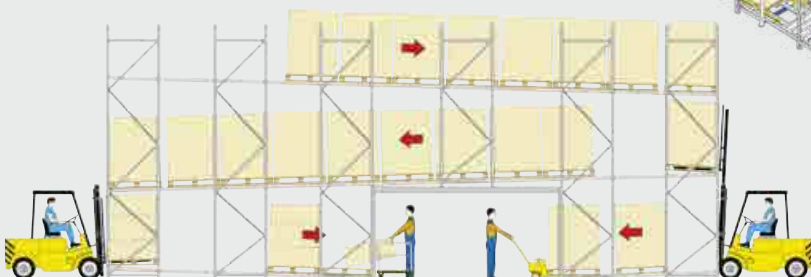
## Pallet pushback racking

Pallets pushback racking is space-saving buffer storage with only one access aisle. This storage technology pushes the stored goods up the incline of the roller conveyor and into a channel with the help of a feeding device. During removal, the following pallets are braked by the removal process with the forklift. Eliminating brake rollers and separators creates a cost-effective solution. All of the articles are always accessible on the removal side of the rack. Pallet pushback racking utilizes the LiFo principle (last-in-first-out).



## Pallet live storage rack storage with order picking tunnel

Pallet live storage racking systems are becoming an increasingly important part of warehouse logistics due to the consistent combination of buffer storage and order picking. Pallet live storage racking with order picking tunnels utilizes the FIFO principle (first-in-first-out). The resupply and order picking operations are separated and large article volumes are possible. These systems provide optimum solutions for a beverage trade or electrical equipment manufacturers.





## Narrow aisle high rise racking system

High rise warehouse solutions with narrow-aisle designs enable the highest storage capacity even with confined areas and restricted storage space.

SSI SCHAEFER systems have proven themselves in numerous applications. We apply our worldwide expertise and many years of experience gained through collaboration with manufacturers of floors, storage and retrieval devices, aisle protection and fire protection equipment when implementing a storage solution for our customers.

SSI SCHAEFER sees itself as a professional service provider.



Further information

on request



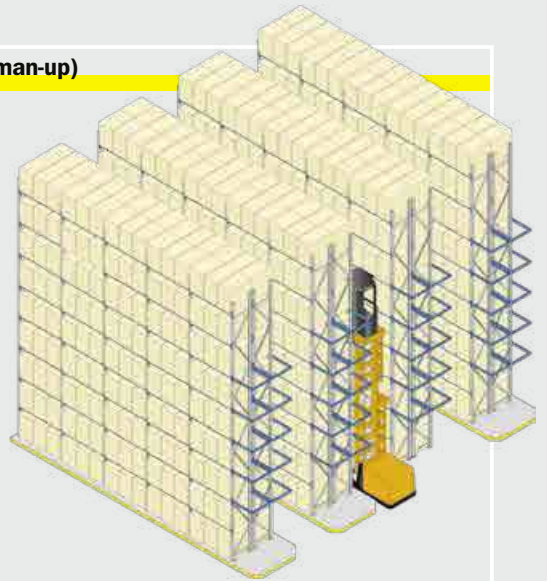
# High rise racking staging



## Narrow aisle system with order picking trucks (man-up)

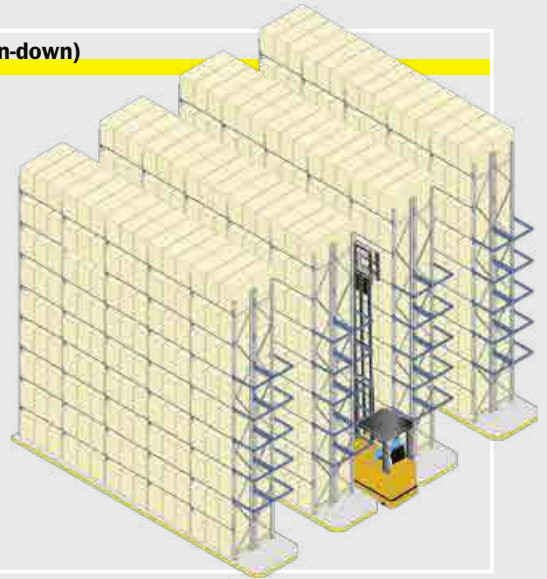
This is by far the most frequently used storage type. The advantages are:

- Operator constantly at removal height, therefore no positioning aid is required.
- Order picking from the pallet is possible.



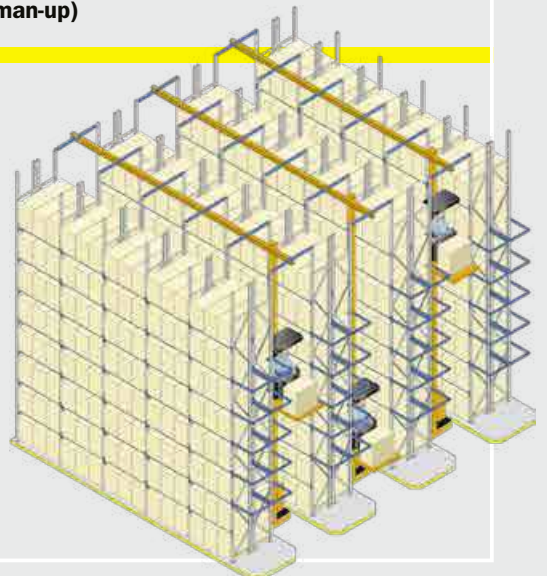
## Narrow aisle system with high-bay stackers (man-down)

This type storage is used when entire loading aids need to be stored and retrieved. In contrast to man-up devices, higher racks and smaller tolerances for the floor and rack need to be observed and both horizontal and vertical positioning aids are required.



## Narrow aisle system with order picking trucks (man-up) and upper guide rail

This additional upper guide rail with integrated power rail allows large rack heights (up to 19 m) and rack lengths (> 100 m) together with high traveling speeds. Compliance with very small floor and rack tolerances is an important prerequisite to ensure a perfect functioning.

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



# Cantilever racking for long material storage

When it comes to storing long or bulky goods, cantilever racking systems are the right solution. A wide range of products can be stored: light plastic tubes, heavier steel pipes and profiles, timber boards up to massive coils.

Perfectly tailored: SSI SCHAEFER's expert consultants help to develop concepts for special long materials or particular site conditions.

Cantilever rack uprights can be supplied for single- or double-sided storage. Any required row length can be done.

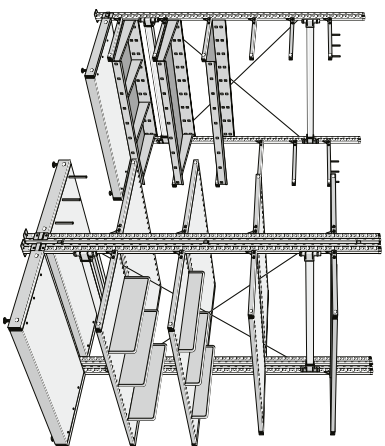
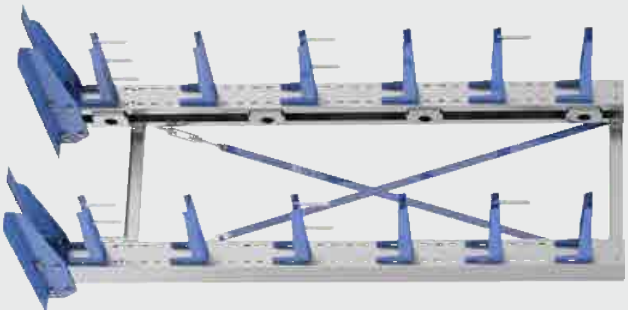
Adjustable cantilever arms allow easy adaption to different storage heights and load requirements. SSI SCHAEFER may offer diverse accessories, depending on the goods to be stored.

**i** Information regarding **inspection requirements**  
for **rack systems**

Chapter J, page J1

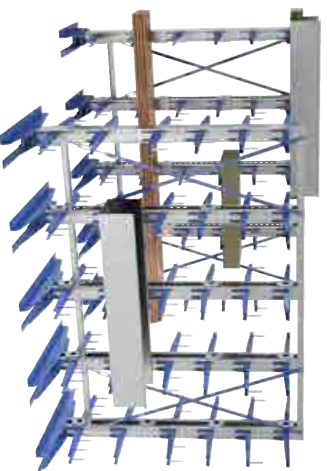






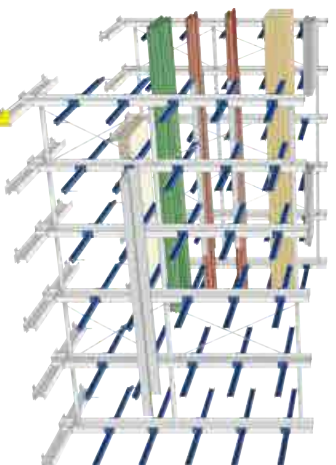
KR 3000 cantilever racking

page E4



KRM cantilever racking

page E8



KRS cantilever racking

page E12





# Overview of cantilever racking systems

KR 3000 cantilever racking	
Areas of use	On-line shelving and storage of light and bulky materials
Advantages	<ul style="list-style-type: none"> <li>▶ Assembly with dividing pins, shelves or storage trays</li> <li>▶ Double-row racks constructed out of free-standing racks placed back-to-back and 3 frame connectors</li> <li>▶ Unique upright profile</li> <li>▶ Beams are installed without any play due to the conical grooves on both short sides</li> </ul>
System	▶ Free upright design
Design	▶ Expansion bay design; proportionally reduces the carrying capacity per rack bay
System hole pattern	▶ 53 : 53 mm
Load-bearing capacity	▶ up to 150 kg per side and upright, incl. base, up to 50 kg per cantilever arm
Support profiles/ horizontal braces	▶ Galvanized
Cantilever arms	▶ Galvanized
Shelves	▶ Light silver



E4

from pages

### KRM cantilever racking

Storage of pipes, profiles or long, bulky materials

- ▶ Easy assembly with only a few components
- ▶ Single- or double-face racks
- ▶ Attachable cantilever arms, enabling adjustment without tools
- ▶ Robust construction
- ▶ Solid foot plate
- ▶ Bolted upright design
- ▶ Bolting system: Uprights are bolted together horizontal braces to form rack rows and reinforced with cross braces in every 4th bay
- ▶ 50 : 50 mm
- ▶ up to 2,300 kg per upright side with uniform height division
- ▶ Galvanized
- ▶ Painted RAL 5010, Gentian Blue



E8

### KRS cantilever racking

Storage of heavy, bulky materials and goods. Universally usable inside buildings, for manual or automatic operation, stationary or mobile installations possible

- ▶ Easy assembly with only a few components
- ▶ Single- or double-face racks
- ▶ Bolted cantilever arms
- ▶ Robust construction
- ▶ Bolted upright design
- ▶ Bolting system: Uprights are bolted together horizontal braces to form rack rows and reinforced with cross braces in every 4th bay
- ▶ 100 : 100 mm
- ▶ up to 14,000 kg per upright side with uniform height division
- ▶ Painted RAL 7037, Dust Gray
- ▶ Painted RAL 5010, Gentian Blue



E12

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix

## KR 3000 cantilever racking



The KR 3000 cantilever rack system from SSI SCHAEFER allows for quick and smooth location adjustments. Each side can support loads up to 300 kg with the starter bay design.

The cantilever arms with an insertion angle of 10° can be adjusted in 53 mm steps. They can be fitted with divider pins or serve as a supports for shelves and storage trays.

All rack levels can support loads of up to 100 kg with the starter bay design.

The double-row rack is made of racks positioned one behind the other. Additionally, they are stabilized with three frame connectors. The racks can also be configured with expansion bay design. In this case, it must be considered that the load carrying capacity of each rack bay decreases proportionally.







# KR 3000 system design

## ► Load-bearing capacity

Up to 150 kg per side and upright, incl. base,  
up to 50 kg per cantilever arm

## ► Height adjustable in steps of 53 mm

Cantilever brackets with  
insertion angle of 10°



## ► System design

Cantilever racking construction

## ► Expansion bay design

Proportionally reduces the load capacity per rack bay

## ► Areas of use

On-line shelving and storage of light and bulky materials

## ► Can be equipped with divider pins, shelves or storage trays

## ► Double-row racks

Constructed out of racks placed next to each other  
and 3 frame connectors

## ► Special upright profile

## ► Beams are installed without any play due to the conical grooves on both short sides

Cantilever upright  
with foot profile

Dividing pins  
page E7

Cantilever arms  
page E7

Tray  
(without divider)  
page E7

Tray  
(with divider)  
page E7

Beams

Cross brace

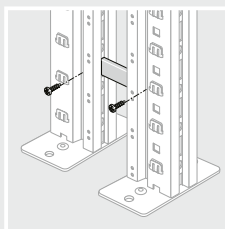
Frame connector  
page E7

Free-standing  
dividers  
Chapter B, page B12

Base shelf

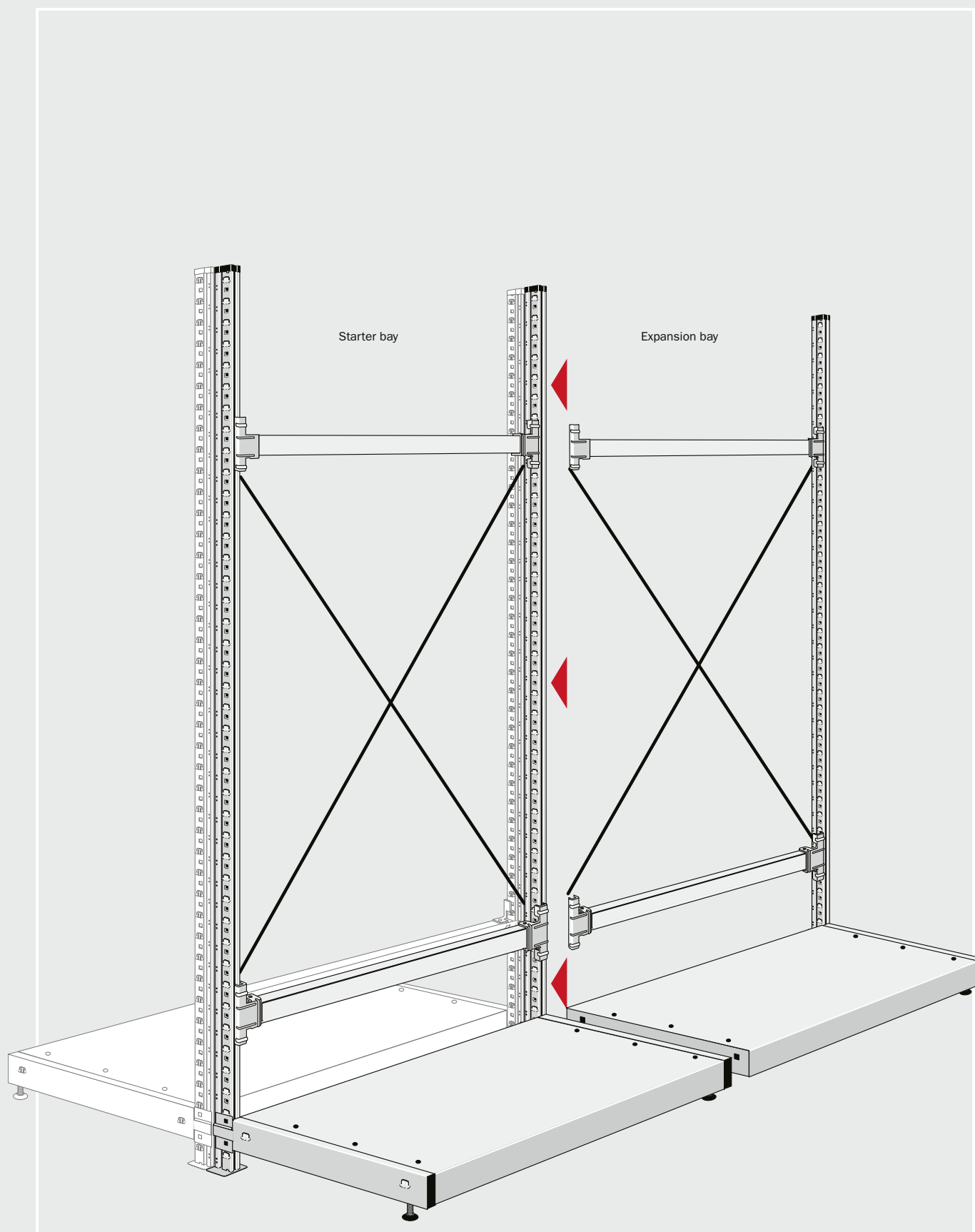


Dividing pins



Frame connector

## Rack components





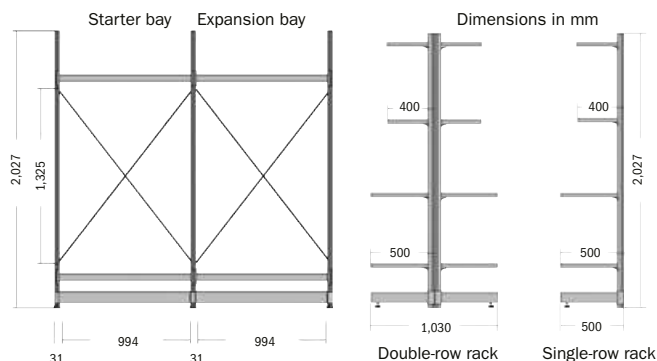
# Rack components and accessories

## Shelves

The maximum load-carrying capacity can only be used with the starter bay design

## Starter bay/expansion bay

Clear bay width 994 mm



## Starter bay

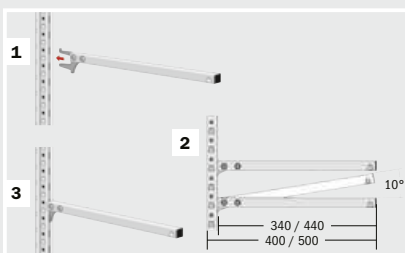
2 uprights with foot – single sided, 2 beams, 1 cross brace, 1 base shelf.

Item	Width (mm)	Height (mm)	Order no.
FR 31020 G	994	2,027	145690

## Expansion bay

1 upright with foot – single sided, 2 beams, 1 cross brace, 1 base shelf.

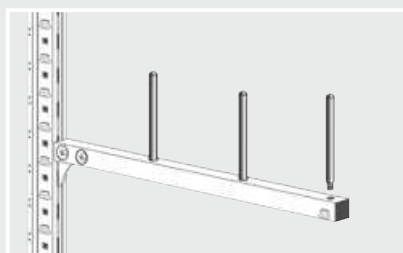
Item	Width (mm)	Height (mm)	Order no.
FR 31020 A	994	2,027	145700



## Cantilever arms

Sheet steel, galvanized. For attaching shelves and trays. Load capacity 50 kg.

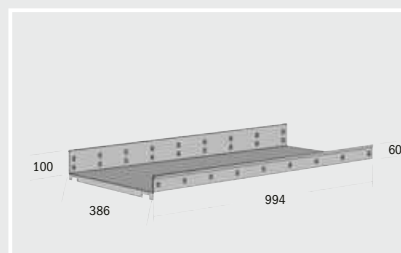
Item	Rack depth (mm)	Usable depth (mm)	Order no.
KK 34050	400	340	145740
KK 35050	500	440	145760



## Dividing pins

Steel, galvanized. Dividing pins for partitioning the cantilever arms.

Item	Order no.
AST 3100	145770



## Tray

Sheet steel, galvanized. External depth 400 mm, internal 386 mm. Load-bearing capacity of 50 kg per storage level.

Item	Order no.
LW 31010	145790
LWT 386/2386	18220



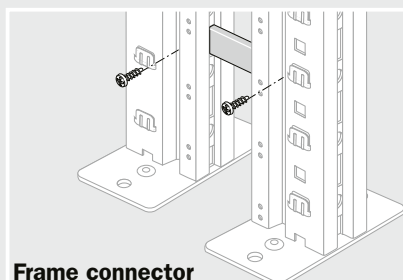
## Shelves

Sheet steel, powder-coated light silver. 30 mm high. The shelves feature rows of slots with a 41 mm spacing. Free-standing dividers can be inserted into the slots for lengthwise partitioning.

**Note:** The maximum load capacity can only be used with the starter bay design.

Item	Rack depth (mm)	Order no.
ZB 4413 L	400	27010
ZB 4513 L	500	27030

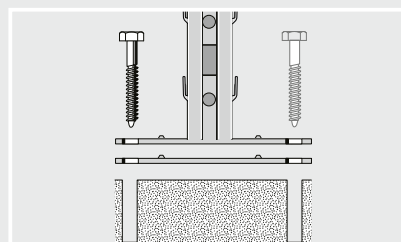
Order no. = on stock



## Frame connector

Sheet steel, galvanized. For connecting double-row rack bays. 30 mm spacing. Incl. fixing kit.

Item	Order no.
RV 3030	147090



## Floor fixing

Screw anchor for anchoring the racks to the floor.

Item	Order no.
HUS3-H6x60	6671728



Clear bay width 1,282 mm and further accessories

on request



## Cantilever racking for light to medium loads

No tools are required to adjust the position of the cantilever arms. The hooked cantilever arms allow quick adaption to periodically varying heights of goods to be stored. The KRM cantilever racking system is the right choice for single- or double-sided storage, partitioning the cantilever arm or using storage trays.



- ▶ **Load-bearing capacity**  
Up to 2,300 kg per rack side with uniform height division
- ▶ **System hole pattern**  
adjustable in steps of 50 mm
- ▶ **Bolting system**  
Uprights are connected by horizontal braces and reinforced by cross braces every 4th rack bay
- ▶ **On-line racking and storage**  
of pipes, profiles or long, bulky materials
- ▶ **Easy assembly**  
with only a few components
- ▶ **Single- or double-sided racks**
- ▶ **Hooked-in cantilever arms**  
enable tool-free height adjustment
- ▶ **Robust construction**
- ▶ **Sturdy base**

## KRM system design



Cantilever arms  
page E10

Dividing pins  
page E11

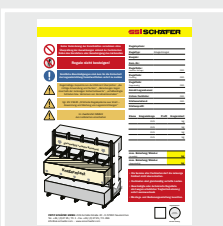
Storage trays  
page E11

Cantilever upright  
(single-sided)  
page E10

Horizontal braces  
page E10

Cantilever uprights  
(double-sided)  
page E10

Cross braces  
page E11



Load sign



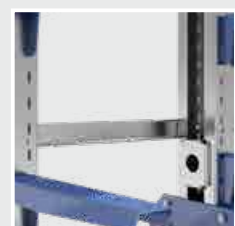
Cantilever arm



Dividing pins

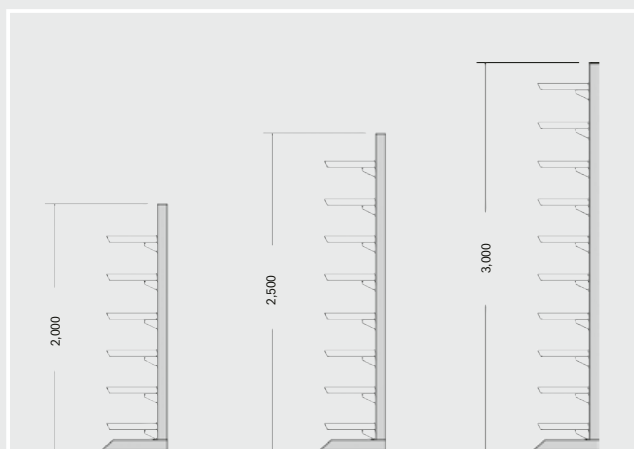


Storage tray



Horizontal brace

# KRM cantilever uprights and accessories



## Uprights, single-sided

Steel, galvanized. Height adjustment pattern 50 : 50 mm, foot profiles made of angled profiles in Gentian Blue RAL 5010 allowing a uniform distribution of the load on the floor. 2 horizontal braces are required to connect the cantilever uprights.

Item	Upright height (mm)	Usable depth (mm)	Total depth (mm)	Load (kg)	Order no.
KRM-KASE200400	2,000	400	700	2,300	6689906
KRM-KASE200500		500	800	1,900	6689907
KRM-KASE200600		600	900	1,650	6689908
KRM-KASE200800		800	1,100	1,200	6689909
KRM-KASE250400	2,500	400	700	2,150	6689910
KRM-KASE250500		500	800	1,750	6689911
KRM-KASE250600		600	900	1,500	6689912
KRM-KASE250800		800	1,100	1,000	6689913
KRM-KASE300400	3,000	400	700	2,000	6689914
KRM-KASE300500		500	800	1,600	6689915
KRM-KASE300600		600	900	1,350	6689916
KRM-KASE300800		800	1,100	950	6689917



## Horizontal braces

Steel, galvanized. 2 horizontal braces required to connect cantilever uprights.

Item	Center distance (mm)	Order no.
KRM-LV06	600	6689930
KRM-LV08	800	6689931
KRM-LV10	1,000	6689932
KRM-LV12	1,250	6689933
KRM-LV15	1,500	6689934



GALVANIZED



Cantilever upright

GENTIAN BLUE



Feet, Cantilever arms

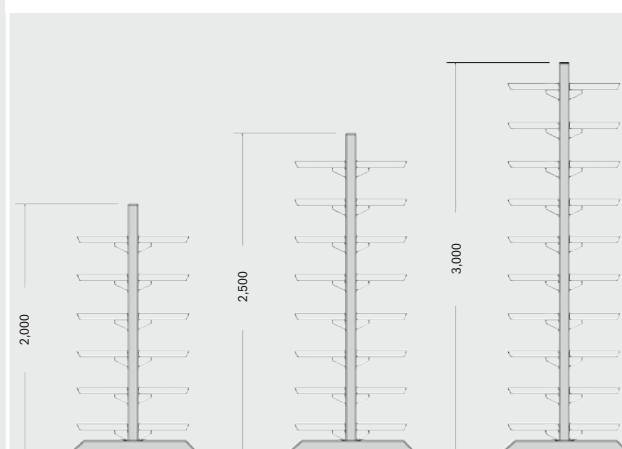
RAL 5010

## Uprights

Load specification below applicable at uniform height distribution of cantilever arms

## Cantilever arms

Load specification below applicable at uniformly distributed load



## Uprights, double-sided

Steel, galvanized. Height adjustment pattern 50 : 50 mm, foot profiles made of angled profiles in Gentian Blue RAL 5010 allowing a uniform distribution of the load on the floor. 2 horizontal braces are required to connect the cantilever uprights.

Item	Upright height (mm)	Usable depth (mm)	Total depth (mm)	Load (kg/side)	Order no.
KRM-KASD200400	2,000	400	1,040	2,300	6689918
KRM-KASD200500		500	1,240	1,900	6689919
KRM-KASD200600		600	1,440	1,650	6689920
KRM-KASD200800		800	1,840	1,200	6689921
KRM-KASD250400	2,500	400	1,040	2,150	6689922
KRM-KASD250500		500	1,240	1,750	6689923
KRM-KASD250600		600	1,440	1,500	6689924
KRM-KASD250800		800	1,840	1,000	6689925
KRM-KASD300400	3,000	400	1,040	2,000	6689926
KRM-KASD300500		500	1,240	1,600	6689927
KRM-KASD300600		600	1,440	1,350	6689928
KRM-KASD300800		800	1,840	950	6689929



## Cantilever arms

Steel, painted: Gentian Blue, RAL 5010. Adjustable without tools, adjusting pattern 50 : 50 mm, including holes for dividing pins.

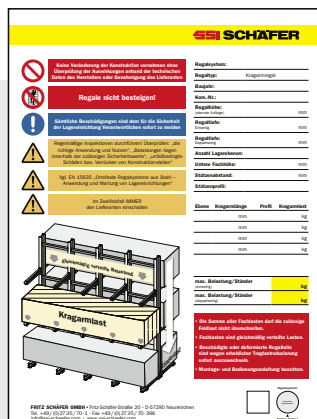
Item	Cantilever arm length (mm)	Load (kg)	Order no.
KRM-KA400	400	350	6689902
KRM-KA500	500	300	6689903
KRM-KA600	600	250	6689904
KRM-KA800	800	180	6689905

Order no. = on stock



### Mandatory labeling

The regulations of the trade associations demand labeling of rack installations with all the necessary load specifications



### Load signs

Item	Width (mm)	Height (mm)	Type	Order no.
KRTS 7050	450	600	Aluminum, incl. fixing kit.	on req. *
TS 0615	60	150	PVC adhesive film	on req. *

\* The technical data necessary for the load sign would be researched on hourly base and invoiced together with load sign cost.

### Floor anchor

Cantilever racks are fixed to floor by expansion anchors to ensure stability. For single-sided cantilever racking 6, for double-sided cantilever racking 6 pieces are required.



Item	Order no.
BA 10 SL M 10 expansion anchor	67030



### Dividing pins

Steel, galvanized. Made of tube profile, including screw fastening.

Item	Usable height (mm)	Order no.
KED 105	50	124250
KED 110	100	124260
KED 115	150	124270

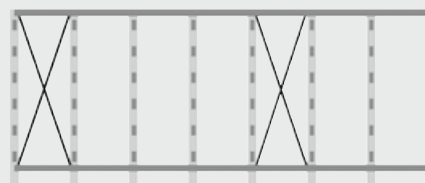
## KRM accessories



### Storage trays

Sheet steel, galvanized, 250 mm high. For storing of residual pieces, plastic pipes, hoses, etc.

Item	For usable depth/ cantilever arm length (mm)	Internal width (mm)	Length (mm)	Panel thickness (mm)	Order no.
KLW 1542	400	360	1,500	2.0	124510
KLW 2042			2,000	2.0	124130
KLW 2043			2,000	3.0	124520
KLW 2543			2,500	3.0	124530
KLW 1552	500	460	1,500	2.0	124540
KLW 1553			1,500	3.0	124550
KLW 2053			2,000	3.0	124560
KLW 2553			2,500	3.0	124570
KLW 1563	600	560	1,500	3.0	124580
KLW 2063			2,000	3.0	124210
KLW 2563			2,500	3.0	124590



### Cross braces

Steel, painted: Gentian Blue, RAL 5010. Cross braces are required for every fourth rack bay in order to stabilize the racks. Includes fixing kit.

Item	Center distance (mm)	Upright height (mm)	Order no.
KRM-KVB200060	600	2,000	6689935
KRM-KVB250060		2,500	6689940
KRM-KVB300060		3,000	6689945
KRM-KVB200080	800	2,000	6689936
KRM-KVB250080		2,500	6689941
KRM-KVB300080		3,000	6689946
KRM-KVB200100	1,000	2,000	6689937
KRM-KVB250100		2,500	6689942
KRM-KVB300100		3,000	6689947
KRM-KVB200125	1,250	2,000	6689938
KRM-KVB250125		2,500	6689943
KRM-KVB300125		3,000	6689948
KRM-KVB200150	1,500	2,000	6689939
KRM-KVB250150		2,500	6689944
KRM-KVB300150		3,000	6689949

## Cantilever racking for medium to heavy loads



Cantilever racking for medium and heavy loads is utilized for an extensive range of warehousing applications. The requirements are diverse. As such, the storage system has to be adapted to goods and not vice versa.

The KRS system has limitless versatility with regard to dimensions and capacity. The usage options range from manual to automated operation, stationary or mobile. The system can be installed indoors or, upon request, outdoors.

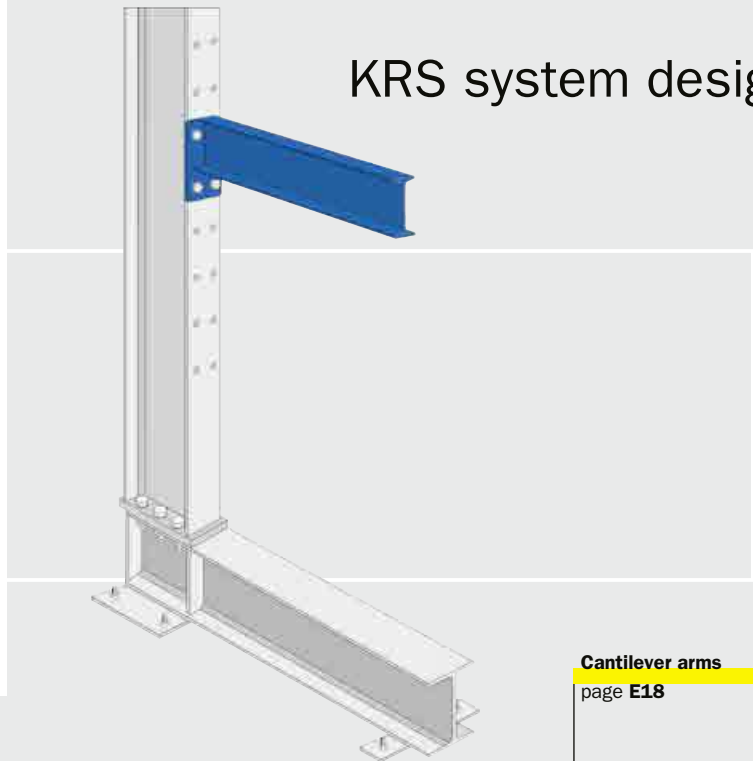




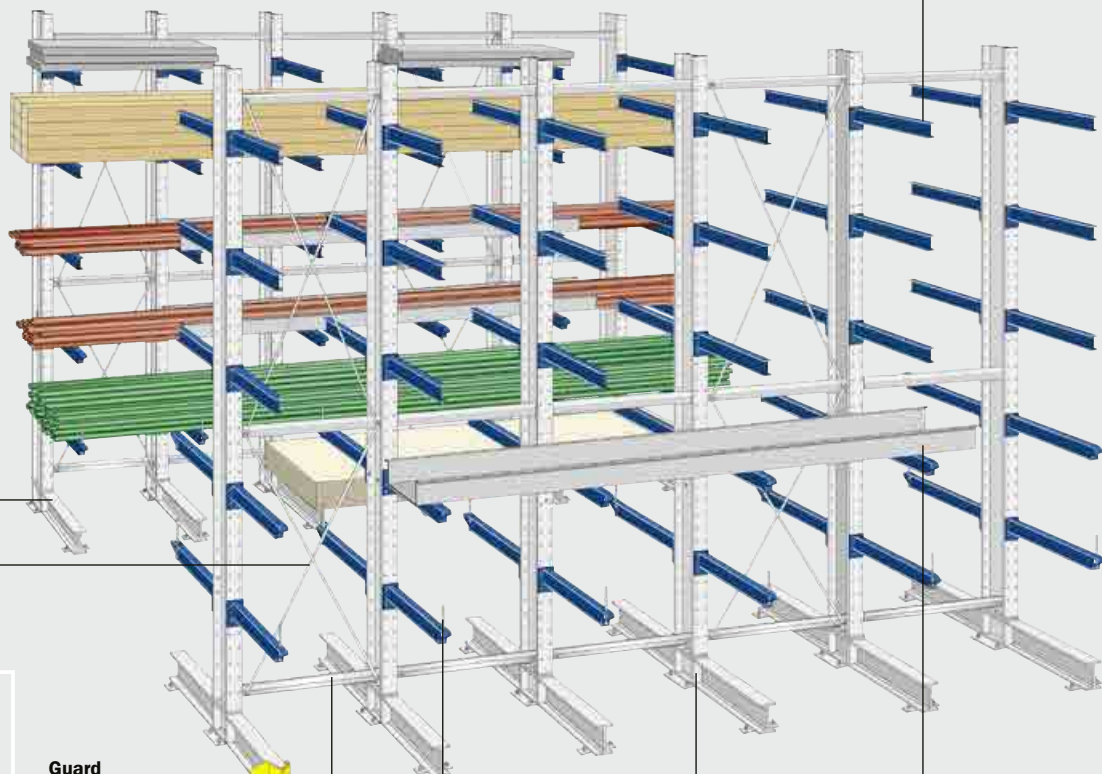


- ▶ **Load-bearing capacity**  
up to 14,000 kg per rack side with uniform height division
- ▶ **Height adjustment pattern**  
adjustable in steps of 100 mm
- ▶ **Upright design made of bolted uprights and foot profiles**  
Can also be retrofitted by replacing the foot profiles – between single and double-face designs
- ▶ **Bolting system**  
upright profiles are bolted together with horizontal braces to form rack rows and reinforced with cross braces in every 4th rack bay
- ▶ **Storage**  
of heavy, bulky materials and goods
- ▶ **Universally usable**  
in halls or outdoors, for manual or automated operation, stationary or mobile installations possible
- ▶ **Easy assembly**  
with only a few components
- ▶ **Single- or double-sided racks**
- ▶ **Bolted cantilever arms**
- ▶ **Robust construction**

## KRS system design



**Cantilever arms**  
page E18



**Cantilever upright (single-sided)**  
page E14 – E15

**Cross braces**  
page E20

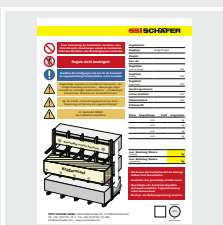
**Guard**  
page E20

**Horizontal braces**  
page E20

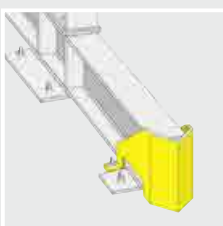
**End stop**  
page E21

**Cantilever upright (double-sided)**  
page E16 – E17

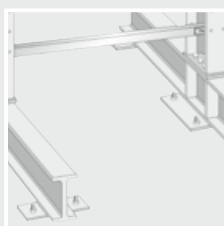
**Storage trays**  
page E19



Load sign



Guard



Horizontal braces



Storage tray



Bolted cantilever arm



Cantilever arm with end stop



# KRS single-sided cantilever uprights



DUST GRAY



Cantilever upright

RAL 7037

## ► High stability

the upright and foot profiles are made of solid, hot rolled IPE profiles and are bolted together to create a stable cantilever upright. The foot profiles safely transfer the loads to the floor.

The structural design is effected according to EN and FEM and corresponds to the provisions of the German standard of DG-UV 108-007.

## ► Height adjustment pattern

with adjustment spacing 100 : 100 mm

## ► Material and finish

steel, painted: Dust Gray, RAL 7037

## ► Cantilever uprights

Load specifications apply to each side of the rack in the case of uniform height distribution of the cantilever arms



## Other upright heights and usage depths

on request



### Upright height 2,500 mm

Item	Usable depth (mm)	Total depth (mm)	Upright profile	Load (kg)	Order no.
KSEX 250418	400	640	IPE 180	6,110	661280
KSEX 250618	600	840	IPE 180	4,800	661282
KSEX 250818	800	1,040	IPE 180	3,900	661283
KSEX 251018	1,000	1,240	IPE 180	3,340	661284
KSEX 251218	1,250	1,490	IPE 180	2,610	661285



### Upright height 3,000 mm

KSEX 300418	400	640	IPE 180	5,300	661287
KSEX 300420		660	IPE 200	7,140	661308
KSEX 300618	600	840	IPE 180	4,170	661289
KSEX 300620		860	IPE 200	5,730	661310
KSEX 300818	800	1,040	IPE 180	3,560	661290
KSEX 300820		1,060	IPE 200	4,750	661311
KSEX 301018	1,000	1,240	IPE 180	3,025	661291
KSEX 301020		1,260	IPE 200	4,155	661312
KSEX 301218	1,250	1,490	IPE 180	2,280	661292
KSEX 301220		1,510	IPE 200	3,375	661313



### Upright height 3,500 mm


KSEX 350618	600	840	IPE 180	4,690	661294
KSEX 350620		860	IPE 200	6,515	661315
KSEX 350622		880	IPE 220	8,520	661336
KSEX 350818	800	1,040	IPE 180	3,380	661295
KSEX 350820		1,060	IPE 200	5,000	661316
KSEX 350822		1,080	IPE 220	7,000	661337
KSEX 351018	1,000	1,240	IPE 180	2,590	661296
KSEX 351020		1,260	IPE 200	3,830	661317
KSEX 351022		1,280	IPE 220	5,510	661338
KSEX 351218	1,250	1,490	IPE 180	1,965	661297
KSEX 351220		1,510	IPE 200	2,910	661318
KSEX 351222		1,530	IPE 220	4,185	661339
KSEX 351518	1,500	1,740	IPE 180	1,535	661298
KSEX 351520		1,760	IPE 200	2,295	661319
KSEX 351522		1,780	IPE 220	3,310	661340
KSEX 352018	2,000	2,240	IPE 180	1,010	661300
KSEX 352020		2,260	IPE 200	1,530	661321
KSEX 352022		2,280	IPE 220	2,230	661342

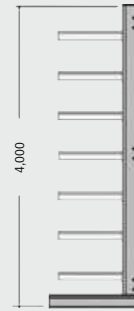
Order no. = on stock

► **Floor anchor**  
see page E19

# KRS single-sided cantilever uprights

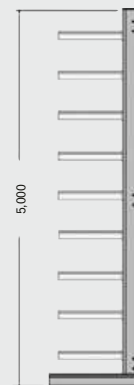
## Upright height 4,000 mm

Item	Usable depth (mm)	Total depth (mm)	Upright profile	Load (kg)	Order no. 
KSEX 400620	600	860	IPE 200	5,980	<b>661322</b>
KSEX 400622		880	IPE 220	8,400	<b>661343</b>
KSEX 400624		900	IPE 240	10,700	<b>661371</b>
KSEX 400820	800	1,060	IPE 200	4,360	<b>661323</b>
KSEX 400822		1,080	IPE 220	6,250	<b>661344</b>
KSEX 400824		1,100	IPE 240	8,800	<b>661372</b>
KSEX 401020	1,000	1,260	IPE 200	3,360	<b>661324</b>
KSEX 401022		1,280	IPE 220	4,830	<b>661345</b>
KSEX 401024		1,300	IPE 240	6,810	<b>661373</b>
KSEX 401220	1,250	1,510	IPE 200	2,550	<b>661325</b>
KSEX 401222		1,530	IPE 220	3,670	<b>661346</b>
KSEX 401224		1,550	IPE 240	5,200	<b>661374</b>
KSEX 401520	1,500	1,760	IPE 200	2,020	<b>661326</b>
KSEX 401522		1,780	IPE 220	2,920	<b>661347</b>
KSEX 401524		1,800	IPE 240	4,140	<b>661375</b>
KSEX 402020	2,000	2,260	IPE 200	1,340	<b>661328</b>
KSEX 402022		2,280	IPE 220	1,960	<b>661349</b>
KSEX 402024		2,300	IPE 240	2,810	<b>661377</b>



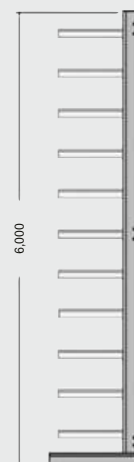
## Upright height 5,000 mm

KSEX 500622	600	880	IPE 220	6,670	<b>661357</b>
KSEX 500624		900	IPE 240	9,360	<b>661385</b>
KSEX 500627		930	IPE 270	14,010	<b>661420</b>
KSEX 500822	800	1,080	IPE 220	4,880	<b>661358</b>
KSEX 500824		1,100	IPE 240	6,870	<b>661386</b>
KSEX 500827		1,130	IPE 270	10,260	<b>661421</b>
KSEX 501022	1,000	1,280	IPE 220	3,780	<b>661359</b>
KSEX 501024		1,300	IPE 240	5,350	<b>661387</b>
KSEX 501027		1,330	IPE 270	7,960	<b>661422</b>
KSEX 501222	1,250	1,530	IPE 220	2,890	<b>661360</b>
KSEX 501224		1,550	IPE 240	4,090	<b>661388</b>
KSEX 501227		1,580	IPE 270	6,140	<b>661423</b>
KSEX 501522	1,500	1,780	IPE 220	2,280	<b>661361</b>
KSEX 501524		1,800	IPE 240	3,250	<b>661389</b>
KSEX 501527		1,830	IPE 270	4,910	<b>661424</b>
KSEX 502022	2,000	2,280	IPE 220	1,550	<b>661363</b>
KSEX 502024		2,300	IPE 240	2,230	<b>661391</b>
KSEX 502027		2,330	IPE 270	3,400	<b>661426</b>



## Upright height 6,000 mm

KSEX 600624	600	900	IPE 240	7,590	<b>661399</b>
KSEX 600627		930	IPE 270	11,420	<b>661434</b>
KSEX 600824	800	1,100	IPE 240	5,640	<b>661400</b>
KSEX 600827		1,130	IPE 270	8,360	<b>661435</b>
KSEX 600830		1,160	IPE 300	12,140	<b>661463</b>
KSEX 601024	1,000	1,300	IPE 240	4,370	<b>661401</b>
KSEX 601027		1,330	IPE 270	6,570	<b>661436</b>
KSEX 601030		1,360	IPE 300	9,530	<b>661464</b>
KSEX 601224	1,250	1,550	IPE 240	3,350	<b>661402</b>
KSEX 601227		1,580	IPE 270	5,050	<b>661437</b>
KSEX 601230		1,610	IPE 300	7,390	<b>661465</b>
KSEX 601524	1,500	1,800	IPE 240	2,690	<b>661403</b>
KSEX 601527		1,830	IPE 270	4,070	<b>661438</b>
KSEX 601530		1,860	IPE 300	5,940	<b>661466</b>
KSEX 602024	2,000	2,300	IPE 240	1,820	<b>661405</b>
KSEX 602027		2,330	IPE 270	2,790	<b>661440</b>
KSEX 602030		2,360	IPE 300	4,120	<b>661468</b>

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

# KRS double-sided cantilever uprights



DUST GRAY



Cantilever upright

## ► High stability

the upright and foot profiles are made of solid, hot rolled IPE profiles and are bolted together to create a stable cantilever upright. The foot profiles safely transfer the loads to the floor.

The structural design is effected according to EN and FEM and corresponds to the provisions of the German standard of DG-UV 108-007.

## ► Height adjustment pattern

with adjustment spacing 100 : 100 mm

## ► Material and finish

steel, painted: Dust Gray, RAL 7037

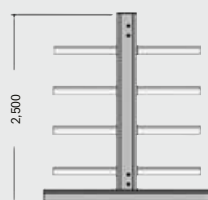
## ► Cantilever uprights

Load specifications apply to each side of the rack in the case of uniform height distribution of the cantilever arms



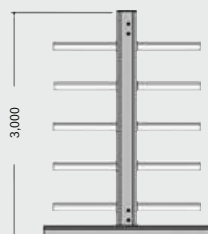
## Other upright heights and usage depths

on request



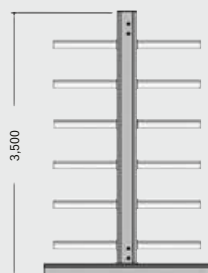
### Upright height 2,500 mm

Item	Usable depth (mm)	Total depth (mm)	Upright profile	Load (kg/side)	Order no.
KSDX 250418	400	1,100	IPE 180	6,290	661532
KSDX 250618	600	1,500	IPE 180	4,940	661534
KSDX 250818	800	1,900	IPE 180	4,050	661535
KSDX 251018	1,000	2,300	IPE 180	3,470	661536
KSDX 251218	1,250	2,800	IPE 180	2,710	661537



### Upright height 3,000 mm

KSDX 300418	400	1,100	IPE 180	5,450	661539
KSDX 300420		1,120	IPE 200	7,350	661560
KSDX 300618	600	1,500	IPE 180	4,290	661541
KSDX 300620		1,520	IPE 200	5,900	661562
KSDX 300818	800	1,900	IPE 180	3,700	661542
KSDX 300820		1,920	IPE 200	4,940	661563
KSDX 301018	1,000	2,300	IPE 180	3,140	661543
KSDX 301020		2,320	IPE 200	4,320	661564
KSDX 301218	1,250	2,800	IPE 180	2,390	661544
KSDX 301220		2,820	IPE 200	3,540	661565



### Upright height 3,500 mm

KSDX 350618	600	1,500	IPE 180	4,870	661546
KSDX 350620		1,520	IPE 200	6,710	661567
KSDX 350622		1,540	IPE 220	8,770	661588
KSDX 350818	800	1,900	IPE 180	3,480	661547
KSDX 350820		1,920	IPE 200	5,150	661568
KSDX 350822		1,940	IPE 220	7,210	661589
KSDX 351018	1,000	2,300	IPE 180	2,690	661548
KSDX 351020		2,320	IPE 200	3,980	661569
KSDX 351022		2,340	IPE 220	5,730	661590
KSDX 351218	1,250	2,800	IPE 180	2,040	661549
KSDX 351220		2,820	IPE 200	3,020	661570
KSDX 351222		2,840	IPE 220	4,350	661591
KSDX 351518	1,500	3,300	IPE 180	1,610	661550
KSDX 351520		3,320	IPE 200	2,410	661571
KSDX 351522		3,340	IPE 220	3,475	661592
KSDX 352018	2,000	4,300	IPE 180	1,080	661552
KSDX 352020		4,320	IPE 200	1,630	661573
KSDX 352022		4,340	IPE 220	2,380	661594


Order no. = on stock

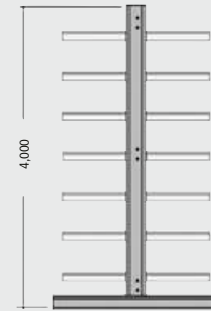


► **Floor anchor**  
see page E19

## KRS double-sided cantilever uprights

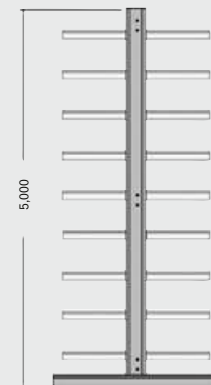
### Upright height 4,000 mm

Item	Usable depth (mm)	Total depth (mm)	Upright profile	Load (kg/side)	Order no. 
KSDX 400620	600	1,520	IPE 200	6,150	661574
KSDX 400622		1,540	IPE 220	8,650	661595
KSDX 400624		1,560	IPE 240	11,020	661623
KSDX 400820	800	1,920	IPE 200	4,490	661575
KSDX 400822		1,940	IPE 220	6,430	661596
KSDX 400824		1,960	IPE 240	9,060	661624
KSDX 401020	1,000	2,320	IPE 200	3,490	661576
KSDX 401022		2,340	IPE 220	5,020	661597
KSDX 401024		2,360	IPE 240	7,080	661625
KSDX 401220	1,250	2,820	IPE 200	2,650	661577
KSDX 401222		2,840	IPE 220	3,810	661598
KSDX 401224		2,860	IPE 240	5,400	661626
KSDX 401520	1,500	3,320	IPE 200	2,120	661578
KSDX 401522		3,340	IPE 220	3,060	661599
KSDX 401524		3,360	IPE 240	4,340	661627
KSDX 402020	2,000	4,320	IPE 200	1,430	661580
KSDX 402022		4,340	IPE 220	2,090	661601
KSDX 402024		4,360	IPE 240	3,000	661629



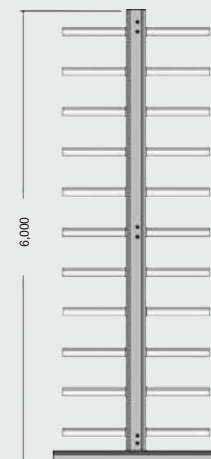
### Upright height 5,000 mm

KSDX 500622	600	1,540	IPE 220	6,870	661609
KSDX 500624		1,560	IPE 240	9,670	661637
KSDX 500627		1,590	IPE 270	14,410	661672
KSDX 500822	800	1,940	IPE 220	5,020	661610
KSDX 500824		1,960	IPE 240	7,070	661638
KSDX 500827		1,990	IPE 270	10,560	661673
KSDX 501022	1,000	2,340	IPE 220	3,930	661611
KSDX 501024		2,360	IPE 240	5,560	661639
KSDX 501027		2,390	IPE 270	8,270	661674
KSDX 501222	1,250	2,840	IPE 220	3,005	661612
KSDX 501224		2,860	IPE 240	4,250	661640
KSDX 501227		2,890	IPE 270	6,380	661675
KSDX 501522	1,500	3,340	IPE 220	2,390	661613
KSDX 501524		3,360	IPE 240	3,410	661641
KSDXN 501527		3,390	IPE 270	5,150	661676
KSDX 502022	2,000	4,340	IPE 220	1,650	661615
KSDX 502024		4,360	IPE 240	2,380	661643
KSDX 502027		4,390	IPE 270	3,630	661678



### Upright height 6,000 mm

KSDX 600624	600	1,560	IPE 240	7,810	661651
KSDX 600627		1,590	IPE 270	11,760	661686
KSDX 600824	800	1,960	IPE 240	5,800	661652
KSDX 600827		1,990	IPE 270	8,610	661687
KSDX 600830		2,020	IPE 300	12,500	661715
KSDX 601024	1,000	2,360	IPE 240	4,540	661653
KSDX 601027		2,390	IPE 270	6,830	661688
KSDX 601030		2,420	IPE 300	9,910	661716
KSDX 601224	1,250	2,860	IPE 240	3,480	661654
KSDX 601227		2,890	IPE 270	5,250	661689
KSDX 601230		2,920	IPE 300	7,680	661717
KSDX 601524	1,500	3,360	IPE 240	2,820	661655
KSDX 601527		3,390	IPE 270	4,270	661690
KSDX 601530		3,420	IPE 300	6,230	661718
KSDX 602024	2,000	4,360	IPE 240	1,940	661657
KSDX 602027		4,390	IPE 270	2,980	661692
KSDX 602030		4,420	IPE 300	4,405	661720

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

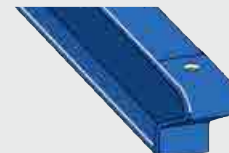
# KRS cantilever arms

## ► Cantilever arms

Load specifications apply for uniformly distributed loads

### Cantilever arms for IPE 180 and IPE 200 upright profiles

Steel, painted: Gentian Blue, RAL 5010. With welded top plate, optionally with or without deflector. Adjustment 100 : 100 mm.



#### Without deflector

Item	Usable depth (mm)	Cantilever arm profile	Load (kg)	Order no.
KASX 0408.2	400	INP 80	1,445	661036
KASX 0410.2		INP 100	2,415	661054
KASX 0608.2	600	INP 80	1,030	661038
KASX 0610.2		INP 100	1,755	661056
KASX 0808.2	800	INP 80	810	661039
KASX 0810.2		INP 100	1,370	661057
KASX 1008.2	1,000	INP 80	640	661040
KASX 1010.2		INP 100	1,120	661058
KASX 1208.2	1,250	INP 80	505	661041
KASX 1210.2		INP 100	885	661059
KASX 1508.2	1,500	INP 80	380	661042
KASX 1510.2		INP 100	730	661060
KASX 2008.2	2,000	INP 80	215	661044
KASX 2010.2		INP 100	470	661062

#### With deflector

Item	Usable depth (mm)	Cantilever arm profile	Load (kg)	Order no.
KASX 0408.2R	400	INP 80	1,445	661045
KASX 0410.2R		INP 100	2,415	661063
KASX 0608.2R	600	INP 80	1,030	661047
KASX 0610.2R		INP 100	1,755	661065
KASX 0808.2R	800	INP 80	810	661048
KASX 0810.2R		INP 100	1,370	661066
KASX 1008.2R	1,000	INP 80	640	661049
KASX 1010.2R		INP 100	1,120	661067
KASX 1208.2R	1,250	INP 80	505	661050
KASX 1210.2R		INP 100	885	661068
KASX 1508.2R	1,500	INP 80	380	661051
KASX 1510.2R		INP 100	730	661069
KASX 2008.2R	2,000	INP 80	215	661053
KASX 2010.2R		INP 100	470	661071

### Cantilever arms for IPE 220 – IPE 300 upright profiles

Steel, painted: Gentian Blue, RAL 5010. With welded top plate, optionally with or without deflector. Adjustment 100 : 100 mm.

#### Without deflector

Item	Usable depth (mm)	Cantilever arm profile	Load (kg)	Order no.
KASX 0408.3	400	INP 80	1,445	661108
KASX 0410.3		INP 100	2,415	661126
KASX 0608.3	600	INP 80	1,030	661110
KASX 0610.3		INP 100	1,755	661128
KASX 0612.3		INP 120	2,720	661144
KASX 0614.3		INP 140	3,035	661158
KASX 0808.3	800	INP 80	810	661111
KASX 0810.3		INP 100	1,370	661129
KASX 0812.3		INP 120	2,150	661145
KASX 0814.3		INP 140	3,125	661159
KASX 1008.3	1,000	INP 80	640	661112
KASX 1010.3		INP 100	1,120	661130
KASX 1012.3		INP 120	1,755	661146
KASX 1014.3		INP 140	2,585	661160
KASX 1208.3	1,250	INP 80	505	661113
KASX 1210.3		INP 100	885	661131
KASX 1212.3		INP 120	1,420	661147
KASX 1214.3		INP 140	2,110	661161
KASX 1508.3	1,500	INP 80	380	661114
KASX 1510.3		INP 100	730	661132
KASX 1512.3		INP 120	1,170	661148
KASX 1514.3		INP 140	1,755	661162
KASX 2008.3	2,000	INP 80	215	661116
KASX 2010.3		INP 100	470	661134
KASX 2012.3		INP 120	850	661150
KASX 2014.3		INP 140	1,285	661164

#### With deflector

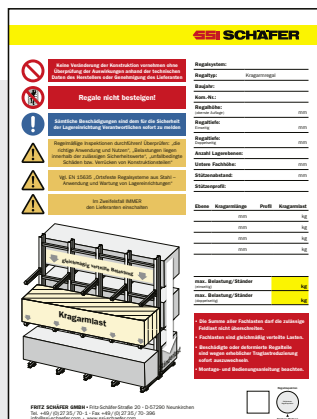
Item	Usable depth (mm)	Cantilever arm profile	Load (kg)	Order no.
KASX 0408.3R	400	INP 80	1,445	661117
KASX 0410.3R		INP 100	2,415	661135
KASX 0608.3R	600	INP 80	1,030	661119
KASX 0610.3R		INP 100	1,755	661137
KASX 0612.3R		INP 120	2,720	661151
KASX 0614.3R		INP 140	3,035	661165
KASX 0808.3R	800	INP 80	810	661120
KASX 0810.3R		INP 100	1,370	661138
KASX 0812.3R		INP 120	2,150	661152
KASX 0814.3R		INP 140	3,125	661166
KASX 1008.3R	1,000	INP 80	640	661121
KASX 1010.3R		INP 100	1,120	661139
KASX 1012.3R		INP 120	1,755	661153
KASX 1014.3R		INP 140	2,585	661167
KASX 1208.3R	1,250	INP 80	505	661122
KASX 1210.3R		INP 100	885	661140
KASX 1212.3R		INP 120	1,420	661154
KASX 1214.3R		INP 140	2,110	661168
KASX 1508.3R	1,500	INP 80	380	661123
KASX 1510.3R		INP 100	730	661141
KASX 1512.3R		INP 120	1,170	661155
KASX 1514.3R		INP 140	1,755	661169
KASX 2008.3R	2,000	INP 80	215	661125
KASX 2010.3R		INP 100	470	661143
KASX 2012.3R		INP 120	850	661157
KASX 2014.3R		INP 140	1,285	661171

Order no. = on stock



► **Mandatory labeling**

The regulations of the trade associations demand labeling of rack installations with all the necessary load specifications



## Load signs

Item	Width (mm)	Height (mm)	Type	Order no.
<b>KRTS 7050</b>	450	600	Aluminum, incl. fixing kit.	<b>on req.*</b>
<b>TS 0615</b>	60	150	PVC adhesive film	<b>on req.*</b>

\* The technical data necessary for the load sign would be researched on hourly base and invoiced together with load sign cost.

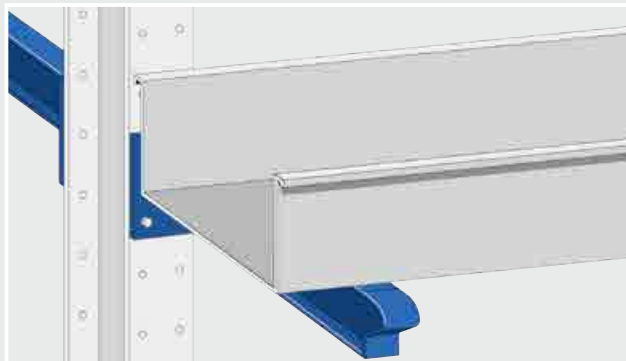
## Floor anchor

Cantilever racks are fixed to floor by chemical anchors to ensure stability. For single-sided cantilever racking 4, for double-sided cantilever racking 6 pieces are required.




Item	Order no.
BA 12 VA	M 12 adhesive anchor
	1000812

## KRS accessories



## Storage trays

Sheet steel, galvanized, 250 mm high. For storing of residual pieces, plastic pipes, hoses, etc.

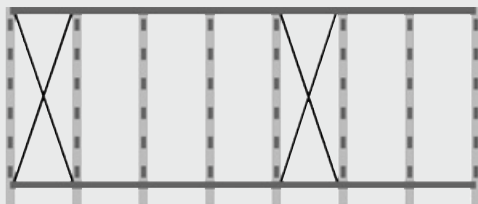
Item	For usable depth/ cantilever arm length (mm)	Internal width (mm)	Length (mm)	Panel thickness (mm)	Order no. 
<b>KLW 1542</b>	400	360	1,500	2.0	<b>124510</b>
<b>KLW 2042</b>			2,000	2.0	<b>124130</b>
<b>KLW 2043</b>			2,000	3.0	<b>124520</b>
<b>KLW 2543</b>			2,500	3.0	<b>124530</b>
<b>KLW 1552</b>	500	460	1,500	2.0	<b>124540</b>
<b>KLW 1553</b>			1,500	3.0	<b>124550</b>
<b>KLW 2053</b>			2,000	3.0	<b>124560</b>
<b>KLW 2553</b>			2,500	3.0	<b>124570</b>
<b>KLW 1563</b>	600	560	1,500	3.0	<b>124580</b>
<b>KLW 2063</b>			2,000	3.0	<b>124210</b>
<b>KLW 2563</b>			2,500	3.0	<b>124590</b>







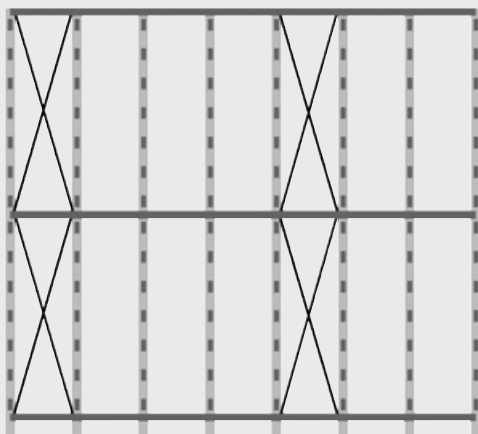
## KRS accessories



## Single-piece cross braces

Steel, painted: Dust gray, RAL 7037. Cross braces are required for every fourth rack bay in order to stabilize the racks. Includes fixing kit.

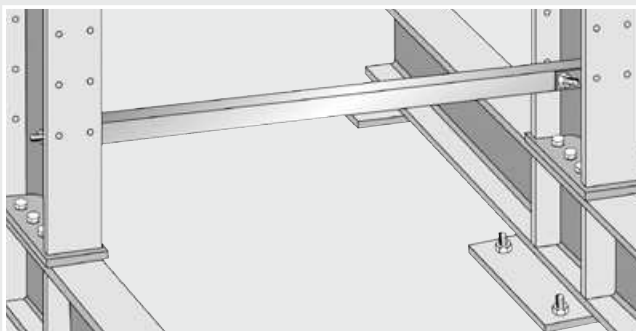
Item	Center distance (mm)	Upright height (mm)	Order no.
KVBX 25081	800	2,500	6680971
KVBX 30081		3,000	6680976
KVBX 35081		3,500	6680982
KVBX 25101	1,000	2,500	6680972
KVBX 30101		3,000	6680977
KVBX 35101		3,500	6680983
KVBX 25121	1,250	2,500	6680973
KVBX 30121		3,000	6680978
KVBX 35121		3,500	6680984
KVBX 25151	1,500	2,500	6680974
KVBX 30151		3,000	6680979
KVBX 35151		3,500	6680985



## Two-piece cross braces

Steel, painted: Dust gray, RAL 7037. Cross braces are required for every fourth rack bay in order to stabilize the racks. Includes fixing kit.

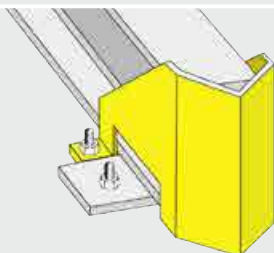
KVBX 40082	800	4,000	6680988
KVBX 50082		5,000	6681000
KVBX 60082		6,000	6681012
KVBX 40102	1,000	4,000	6680989
KVBX 50102		5,000	6681001
KVBX 60102		6,000	6681013
KVBX 40122	1,250	4,000	6680990
KVBX 50122		5,000	6681002
KVBX 60122		6,000	6681014
KVBX 40152	1,500	4,000	6680991
KVBX 50152		5,000	6681003
KVBX 60152		6,000	6681015



## Horizontal braces

Steel, galvanized. Horizontal braces are required to connect cantilever uprights. Up to upright height 3,500 mm, 2 horizontal braces, above upright height 4,000 mm 3 horizontal braces are required.

Item	Center distance (mm)	Order no.
KLX 08	800	661031
KLX 10	1,000	661032
KLX 12	1,250	661033
KLX 15	1,500	661034



## Guard

Steel, painted: Rapeseed Yellow, RAL 1021. For the foot profiles of the cantilever upright, to protect the tires of the storage-retrieval devices. U-shaped, including floor anchors.

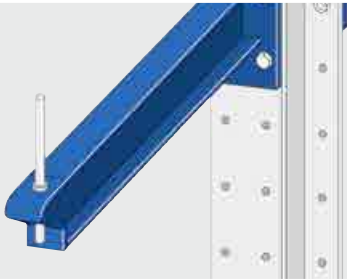
Item	Height (mm)	Width (mm)	Order no.
AS 180	180	140	143640
AS 280	280	180	143650

Order no. = on stock

End stop

For cantilever arms with deflector, plug-in, painted: Dust gray, RAL 7037.

Item	Usable height (mm)	Order no.
KEA 105	50	162500
KEA 110	100	162510
KEA 115	150	162520



Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix



# Mezzanines and platforms – set the stage for optimum space usage



PDF

SSI SCHAEFER's mezzanines and platforms enable you to make the best use of the available space. These versatile systems provide both storage area and working surface.

The multi-tier systems with intermediate mezzanines and freestanding platforms create additional storage levels with the same surface area. System platforms constructed from cold-rolled and hot-rolled steel profiles can be easily and safely assembled.

Suitable for longitudinal and front-to-back expansion to any desired extent, SSI SCHAEFER designs customized platform systems for diverse loads to meet your specific requirements.

The highest safety on every level as an integral aspect. Benefit from our extensive expert advice for modern warehouse management for a versatile and individual solution. The services speak for themselves.

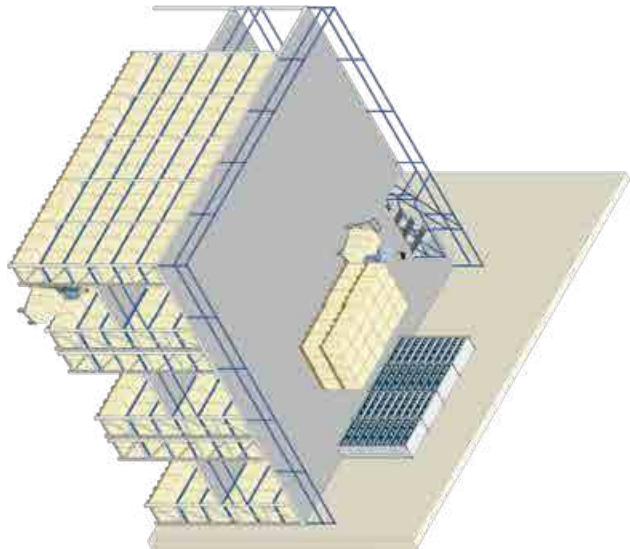
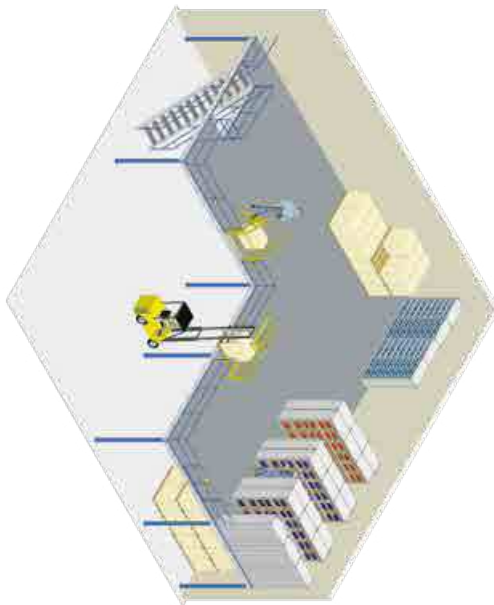


Information regarding **inspection requirements**  
for **rack systems**

Chapter J, page J1







Mezzanines and platforms page F2



# Mezzanines – one system with many options

## Mezzanines

Free-standing mezzanines enable you to double your storage area. The design options are almost unlimited. Various support patterns, carrier profiles and floor coverings can be implemented, depending on your needs.

Naturally, these constructions are also available as multi-tier shelving or racking installations.

## Platforms

With platforms, either platform alleys are installed between the rows of shelvings or complete platform surfaces are installed on the shelving systems.

This is a typical design wherever order picking represents the majority of the work and conveyor systems are also required.

The benefit lies in the fact that the different racking systems can be utilized, whether shelf, live storage or pallet racking systems.





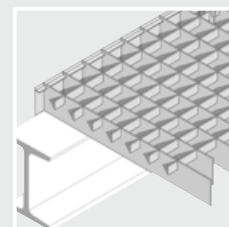
RAL 7001

RAL 7037

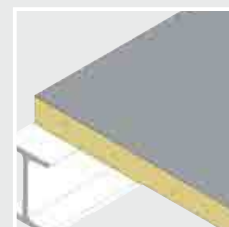
RAL 5010

- **The platform covering depends on the specific application**  
and can consist of gratings, chipboard or beech plywood, with or without non-slip coating. The underside is untreated or painted white
- **Ventilation systems for platforms**  
Available in various versions depending on the order picking requirements
- **Mezzanine safety**  
Begins with the stairs and ends with the railing designs with transfer stations
- **Mezzanine constructions for heavy loads**  
Also for stacker transport, a specialty of SSI SCHAEFER

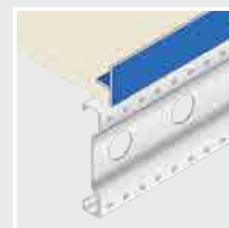
# Mezzanine system design



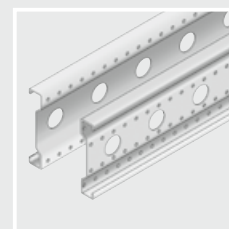
Grating



Chipboard with non-slip covering



Chipboard with edge protection, attached



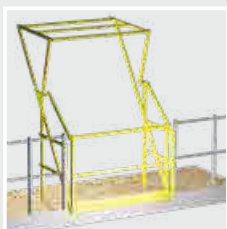
System platform profile

**Floor decking**  
page F5

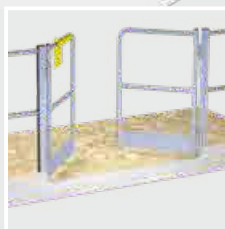
**Double-wing gate**  
page F6

**Stairs and rails**  
page F7

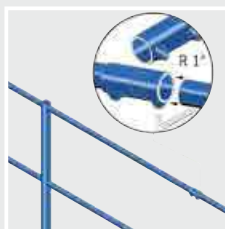
**Pallet safety gate**  
page F6



Pallet safety gate



Double-wing gate



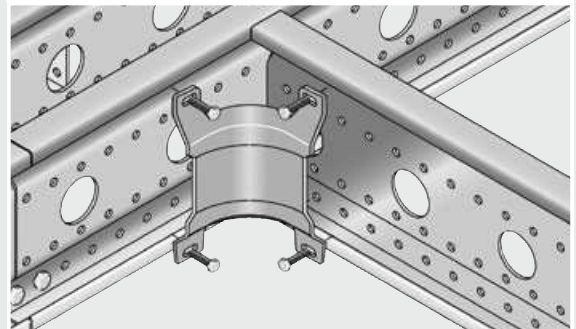
Railing



# Mezzanine systems

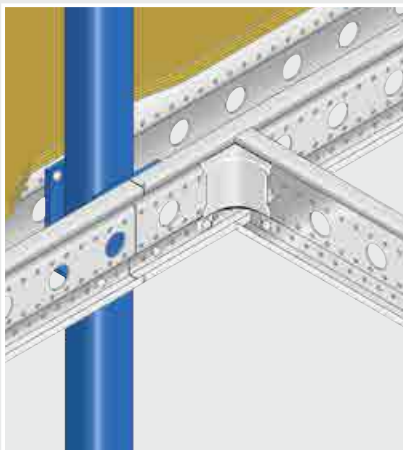


- **Columns of square tubes**  
welded to base plates, anchored on floor
- **Main and secondary beams**  
made of high-strength, cold-rolled steel, with hole pattern
- **Mezzanine covering**  
made of chipboard, mesh grates, plywood or PVC-coating
- **Deflection of main beams**  
max. 1/300
- **Structural design**  
following applicable European standards of EN, ISO and/or local ones upon request
- **Guard rail with knee rail and kick plate**

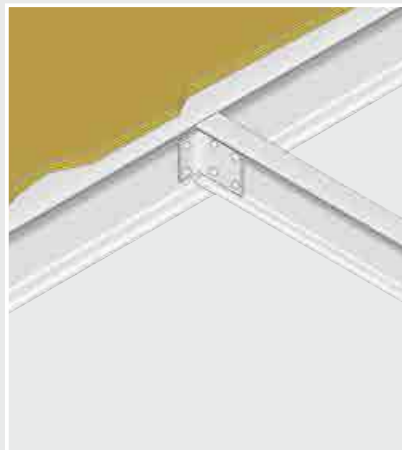


## Platform supports

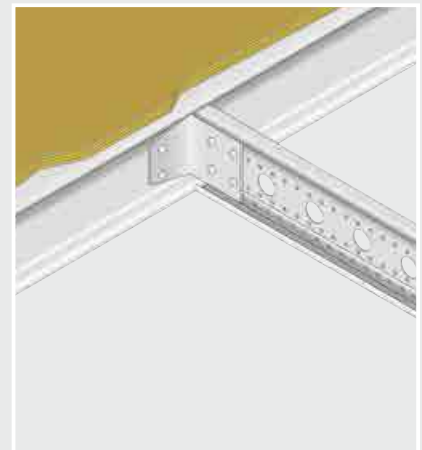
Three versions are available, ensuring the optimum platform support selection.



Platform support made of cold-rolled system profiles



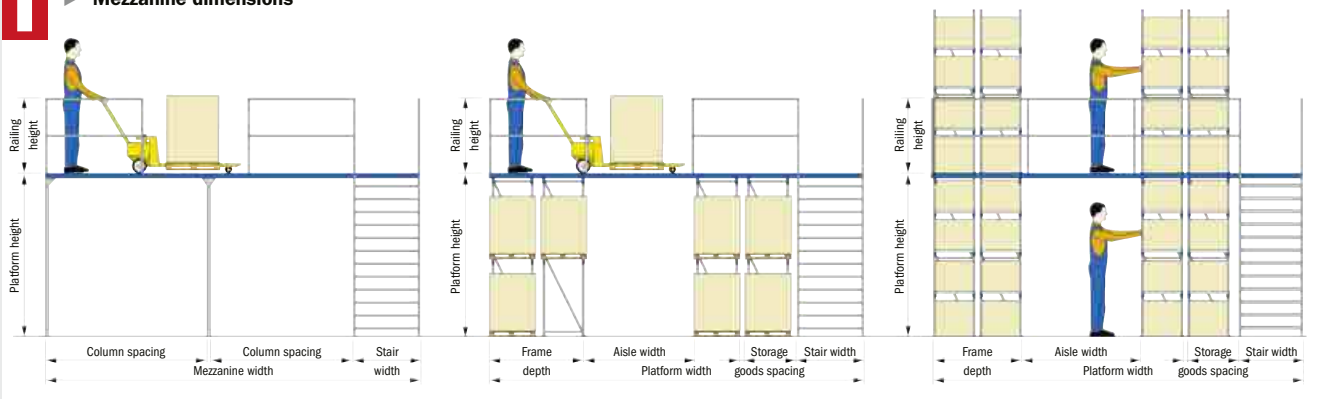
Platform supports made of hot-rolled profiles



Platform supports made of a combination of hot-rolled profiles and cold-rolled system profiles



## Mezzanine dimensions



# Platform decking



## Platform decking made of chipboard

Platform decking made of chipboard is available in various designs and suitable for a variety of applications. These surfaces are untreated, oil-hardened or with an anti-slip coating.

Normal or highly compressed, for fire class B1 or B2, with tongue and groove or as a cladding panel.

Panel thickness 30 or 38 mm.

Execution following EN 312: P4, P6 or P6+



## Mesh gratings, multiplex boards and PVC coverings

We deliver special solutions for special requirements.

Mesh gratings are required either due to fire safety reasons or for ventilation purposes. Multiplex boards are the optimum solution for extremely high loads and a long service life. Conductive covers or covers with PVC nubs provide higher comfort for permanent work stations.


Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix





## Railings and transfer locations

### ► Platform railings

have an extremely sturdy design and are always configured with a hand rail, knee rail and lower kick plate

### ► Pallet safety gates

provide optimum personal protection when handing over the transport goods. The railings are closed at the front or rear, depending on the operation position.  
Painted RAL 1018, Zinc Yellow

### ► Double-wing gate

self-closing with locking bar,  
standard widths 1.500 / 2.000 mm

### ► Surface

all non-galvanized parts powder-coated silver grey RAL 7001.  
Special colors available on request

Double-wing gate, self-closing with locking bar



Pallet safety gate





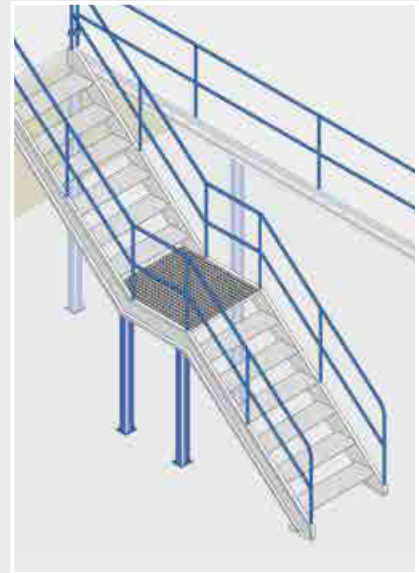
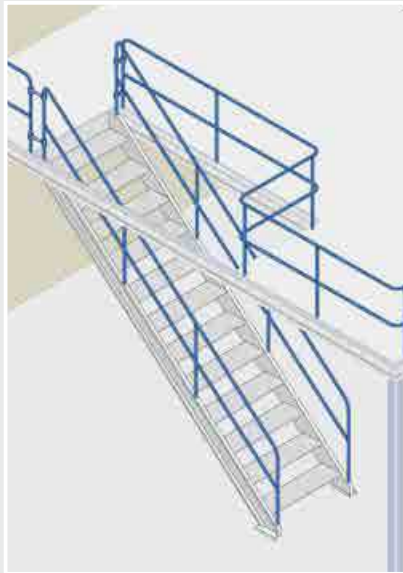


- **Standard stairs for multi-tier shelving systems**  
enable safe and easy access and are also exceptionally sturdy. Fulfills requirements of standard EN 14122 concerning stairways, ladders and railing. All of the steps are bolted to lateral stringers. Additional stairwell platforms are required, depending on the platform height. Both designs are utilized, depending on the specific conditions.
- **Steps**  
made of chequered plate or, alternatively, grating
- **Handrails**  
run the full length of the stairs
- **Surface**  
all non-galvanized parts powder-coated silver grey RAL 7001. Special colors available on request

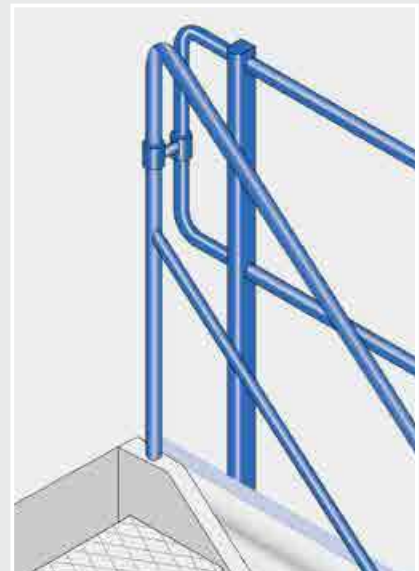
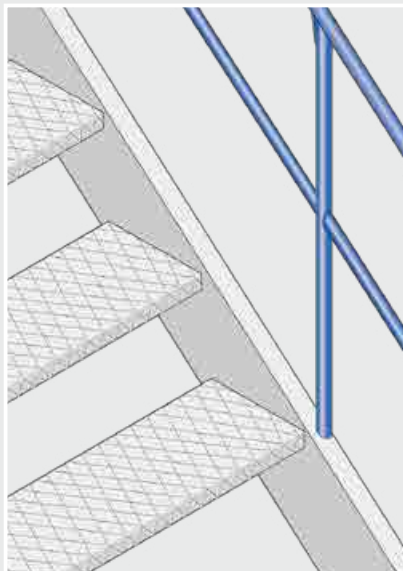
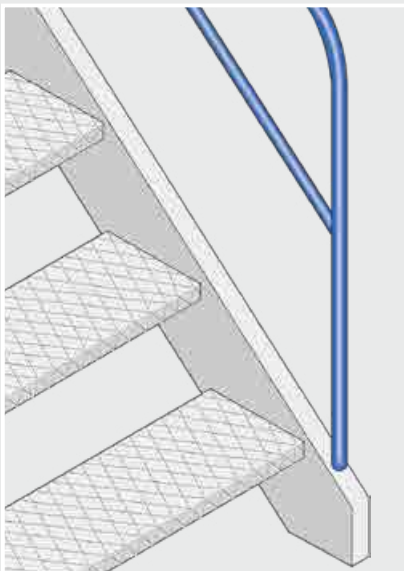


## Stairs and rails

### Standard stairs for multi-tier shelving installations



### Steps, handrails and railing solutions





# Lighting installations

The DG-UV-Regel 108/007 directive requires the following: *“Storage facilities must be adequately illuminated without blinding. The lighting installations must be designed and arranged in such a way that they are protected against mechanical damage. The nominal illumination of the general lighting should be at least 100 lx 0.85 m above the floor. For tasks requiring better visibility such as miniload systems and reading, the nominal illumination should be at least 200 lx. Light and heat sensitive goods may require alternative measures.”*

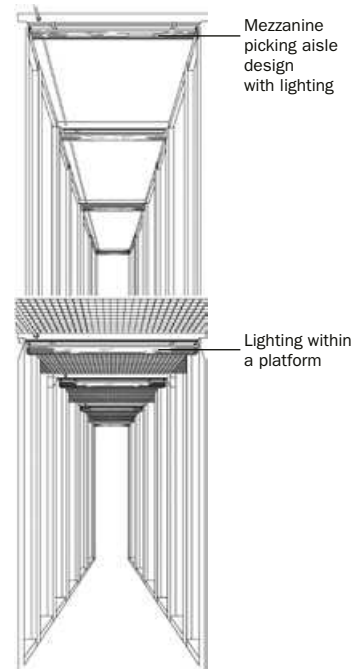
SSI SCHAEFER has developed a special lighting program for precisely this reason. It fulfills the workplace lighting requirements in every area of the platform system.

Lights from SSI SCHAEFER are integrated into the carrier construction of the platform level and they are largely protected against impact damage.

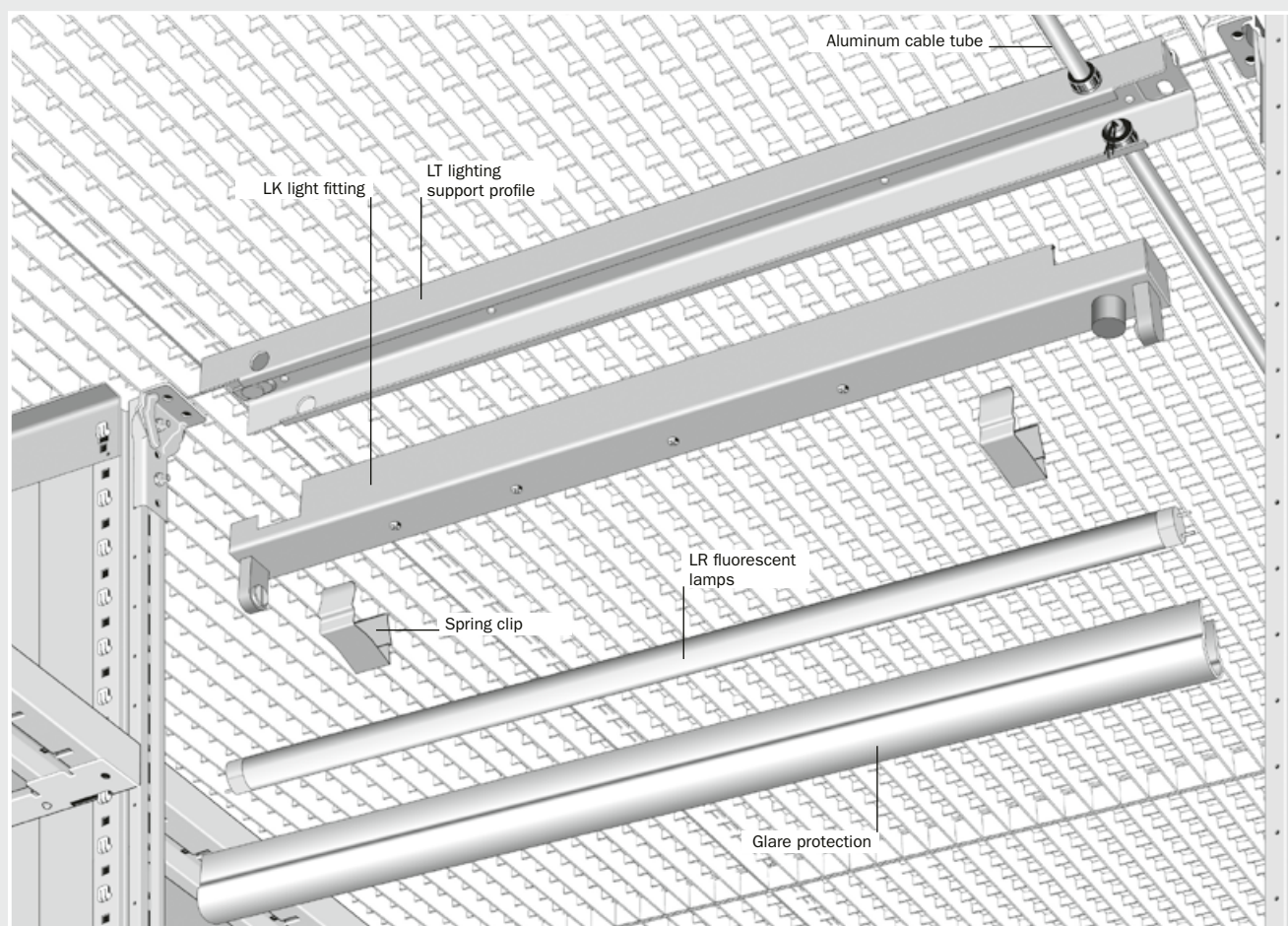
The positioning transverse to the aisle direction provides unimpeded space in front of the top rack compartment and gives the warehouse employees a clear view of the goods.

All of the carrier profiles in the aisles are prepared for fitting conventional PG 9/1 cable tubes or other installation material. SSI SCHAEFER only utilizes compensated lights.

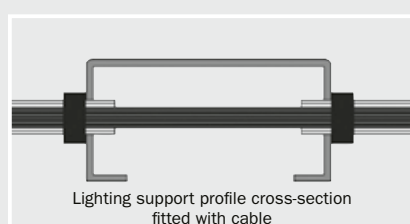
- ▶ **DGUV-Regel 108-007 directives**  
for adequate and non-blinding illumination
- ▶ **Integration into the mezzanine cross beams**  
provides extensive protection against impact damage
- ▶ **The positioning transverse to the aisle direction**  
provides unimpeded space in front of the top rack compartment and a clear view of the goods
- ▶ **Carrier profiles**  
prepared for standard installation material
- ▶ **Compensated lights**
- ▶ **Emergency and signal lighting**  
as per VDE 0108, DIN 4844 and DIN 5035 Part 5,  
can also be planned and installed on request



## Lighting system design



Lighting support profile, prepared for wiring material

**LT lighting support profile**

For installation underneath wooden platform covers

Without accessories.

Item	L x W x H (mm)	Order no.
LTUH 78	780 x 71 x 38	14460

For installation underneath platform gratings

With clip bolts.

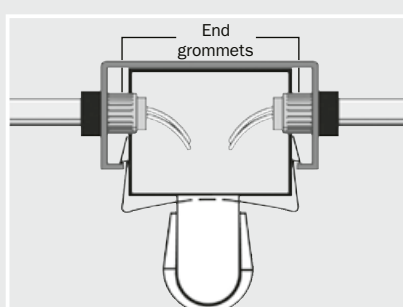
LTUG 78	780 x 71 x 38	14470
---------	---------------	-------

Shelves superstructure for fitting lights

For fastening onto the R 3000 frame using special support profiles.

LTO 85	800 x 71 x 38	14480
LTO 100	1,000 x 71 x 38	14490

Order no. = on stock

**Aluminum cable tube**

For wiring, including 2 locking rings and end grommets

Item	Length (mm)	Order no.
PG 9/1	1,005	14440

**LK light**

Compensated design, with 18 or 25 W fluorescent lamps, 2 fastening clamps and glare protection.

Item	Power (W)	Order no.
SV 18/LK 85	18	14520
SV 18/LK 85/EVG		14522
SV 25/LK 85	25	14430
SV 25/LK 85/EVG		14432

**LR fluorescent lamps**

Item	Power (W) / Lumens	Order no.
LR 18	18/1,250	14510
LR 18 U	18/1,350	14512
LR 25	25/1,800	14500

**i** LED lighting installations and electrical installation specialists

on request

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix

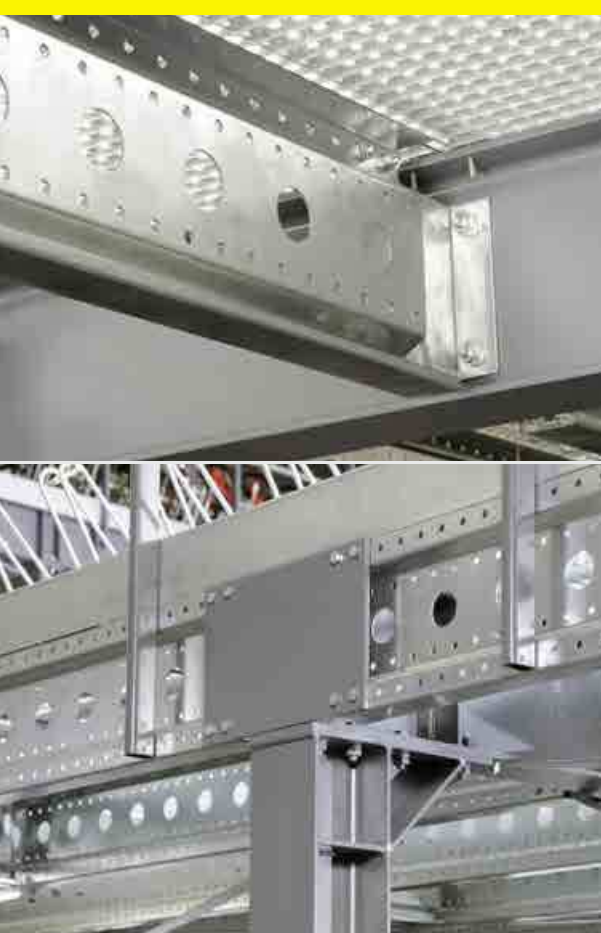


## Application example – free-standing platform

Storage and aesthetics are not necessarily mutually exclusive. SSI SCHAEFER demonstrates this with the construction of the 2-story, freestanding platform system with C-Sigma platform supports at a specialist bicycle dealer.

The platform warehouse is visually integrated into the sales room. The individual levels are accessible via stairs which are also equipped with rails enabling the bicycles to be transported easily.

In addition, floor gratings provide a clear view of the stored and pre-assembled wheels.



Detailed views of the platform support construction

# Application example – Goods lift



Goods lifts integrated into the platform system simplify access to the facility and enable unrestricted access to all of the levels. Loads of up to 2,000 kg can be transported.

The sturdy, freestanding frame construction with a compact design requires a minimal amount of space and can be installed and retrofitted almost anywhere.

Stops: from 2 up to 6. Accesses: up to 12. Doors comply with relevant fire safety regulations. Safety devices allow the installation over free accessible areas.

The elevators are operated externally with send and deliver controls. Selected types can also be equipped with a control panel for operation from inside the cabin.



Detailed views of the elevator cabin with control panel

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix



## Modular mezzanine systems – State-of-the-art multipurpose standard mezzanine

Easily double your warehouse space with modular mezzanine systems from SSI SCHAEFER. The available surface area in the warehouse is optimally utilized by integrating an additional level. Our comprehensive line of panel elements and module types allows a variety of layout options.

Our wide range of standard options for the modular mezzanine systems meets just about every requirement regarding dimensions and load capability. These systems can be designed in any conceivable layout and are therefore easily customizable to your site.

Safety is always a sign of good quality. Thanks to their superior materials, our MSB 600 modular mezzanine systems offer guaranteed payloads of 350 kg/m<sup>2</sup> to 1,000 kg/m<sup>2</sup>. The structural design of our mezzanine systems offers not only a high degree of stability, but also a maximum amount of safety for your warehouse. Use the modular mezzanine systems from SSI SCHAEFER to expand your existing warehouse.

Modular mezzanine systems from SSI SCHAEFER feature a quick and easy bolt assembly. Take advantage of your available space with our extensive selection of system components. Simply build any design layout.



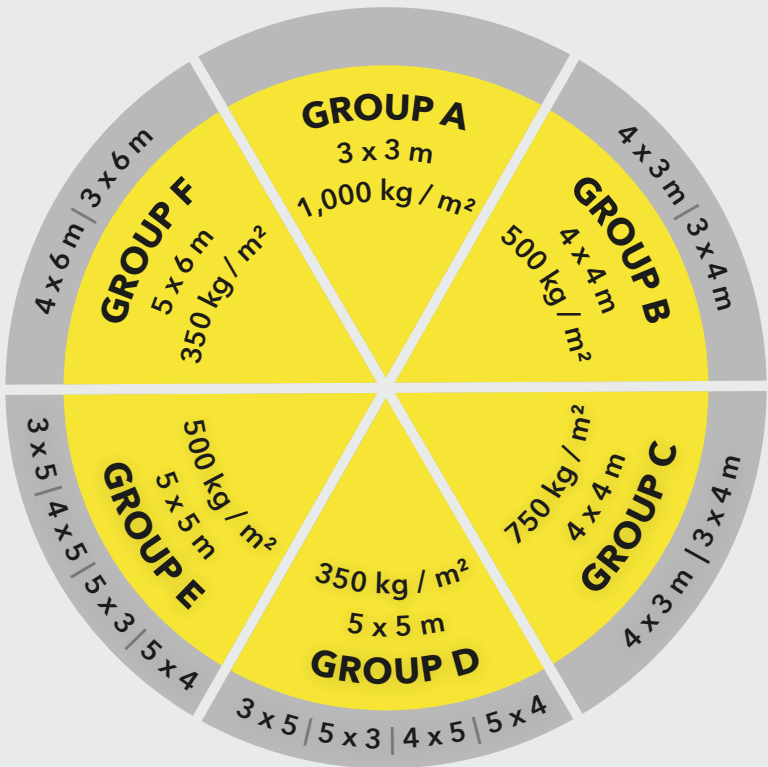


- **Surfaces**  
RAL 5010 and galvanized (cold-rolled CS profiles)
- **Doubling of warehouse space**
- **Increased efficiency**
- **Extremely flexible and easy design**
- **Designed according to EN 1993**

# MSB 600 Module Groups

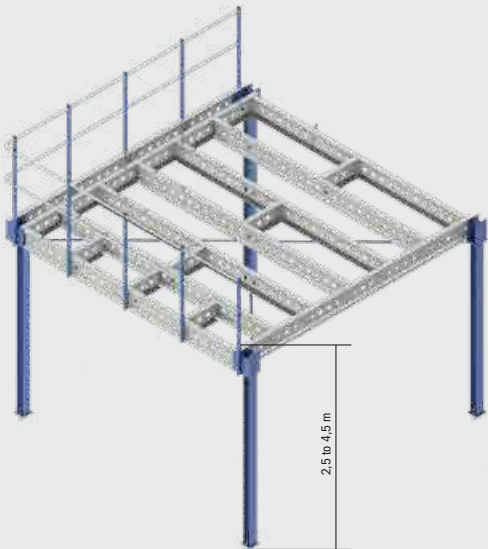
## MSB 600 Modul Groups

The MSB 600 mezzanine system consist of 20 combinable modules. Organized into six groups, the mezzanine elements vary by length, width, and load capacity. The height of the modules ranges between 2.5 m and 4.5 m in intervals of 100 mm. All mezzanine system modules are fully designed and constructed.



Module Type	Dimensions W x H (m)	Surface load (kg/m²)
A1	3 x 3	1000
B1	4 x 4	500
B2	4 x 3	500
B3	3 x 4	500
C1	4 x 4	750
C1	4 x 3	750
C1	3 x 4	750
D1	5 x 5	350
D2	3 x 5	350
D3	5 x 3	350
D4	4 x 5	350
D5	5 x 4	350
E1	5 x 5	500
E2	3 x 5	500
E3	5 x 3	500
E4	4 x 5	500
E5	5 x 4	500
F1	5 x 6	350
F2	4 x 6	350
F3	3 x 6	500

## Height



## Lenght



Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix

# On-line shelving/ live storage racks

PDF

Reducing costs by optimizing processes is the objective in every area of industry. SSI SCHAEFER offers an entire range of optimized systems for providing small items in assembly areas or on the assembly line.

These systems utilize the first-in-first-out principle (FiFo) and can be equipped with shelves or roller bars, guaranteeing problem-free assembly processes.

The diversity of the SSI SCHAEFER dynamic systems ensures that the optimum dynamic storage concept can be found for every load carrier. SSI SCHAEFER systems and solutions cover applications ranging from light loads to moderate loads and also heavy loads.

The diverse range of containers made of plastic and steel from SSI SCHAEFER ensure space-saving storage and the ideal storage of the materials.

**i** Information regarding **inspection requirements**  
for rack systems

Chapter J, page J1

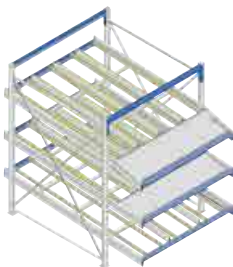




R 3000 on-line shelving page G2



R 7000 on-line shelving page G6



KDR live storage shelving page G12



The meaning of the pictograms:



Bay load\*

\* All specified load values apply for uniformly distributed loads.

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

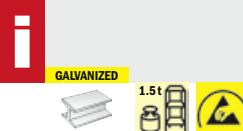
On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix





# R 3000 on-line shelving with shelves

On-line shelving provides a reliable means of storage for any type of box with diverse dimensions, making them a universal solution.

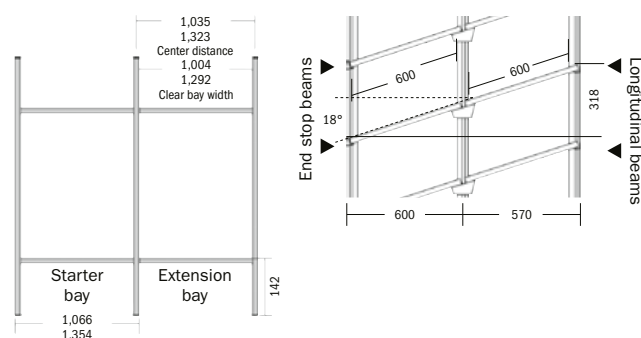
The high load capacity of 1.5 t per bay, its flexibility through the combination of basic and expansion bays to create shelving rows, along with the cost-effective construction with consistently galvanized components from the R 3000 system distinguishes this on-line shelving from SSI SCHAEFER.

The lane guides made of wire bows can be inserted with a 41 mm spacing pattern to partition the shelving.

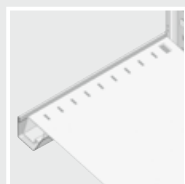
Pre-assembled frames and system components that can be assembled without screws enable these shelves to be set up rapidly.

On the inclined levels, a stop beam or a stop strip secures the containers. The side rails prevent goods from falling between the frames.

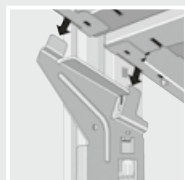
- **Plug-in design for rapid assembly**
- **Pre-assembled upright frame**  
consisting of frames, compartment stays and foot plates
- **Upright profile**  
with 53 mm lug pitch
- **Height-adjustable shelves**
- **High loading capacity**  
of up to 1,500 kg per bay
- **Floor fixing not required**  
provided that the height/depth ratio does not exceed 4 : 1
- **Inclined shelves**  
ensure gravity-forced box supply and provide a clear view while improving handling on the removal side
- **System components made of galvanized sheet steel**
- **Suitable for use in ESD areas**  
to protect high-quality electronic components
- **Bay width/system dimensions and installation situation**



End stop beam, front



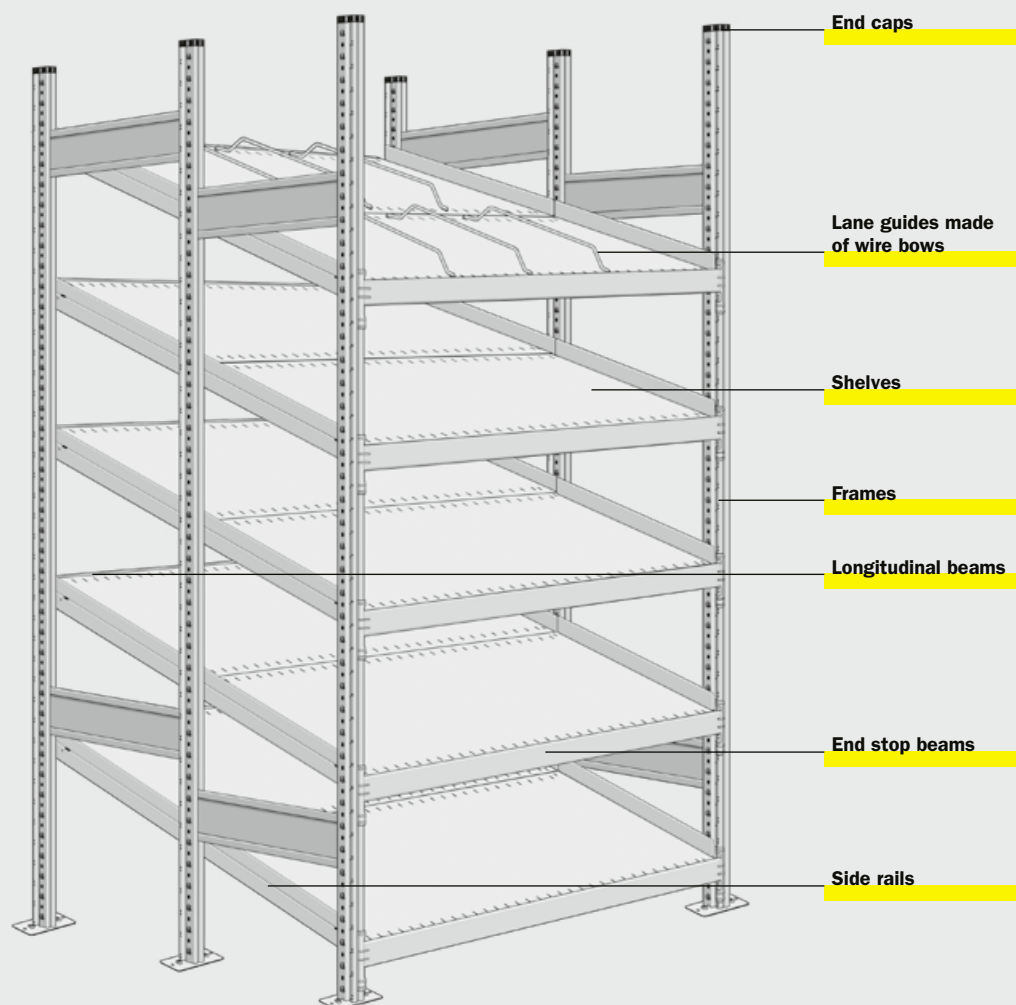
Longitudinal beam, rear



Intermediate shelf bracket



Lane guides made of wire bows



# MBR 3000 single-row shelving with tilted shelves



## MBR 3000 complete shelving system with 3 tilted shelves (starter bays) – rack height 1,536 mm

2 pre-assembled upright frames, 3 shelves, 3 longitudinal and 3 end stop beams, 6 side rails, 4 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341015-GF-S-3	400	1,004	100	331000
MBR-341315-GF-S-3		1,292	150	331010
MBR-351015-GF-S-3	500	1,004	100	331020
MBR-351315-GF-S-3		1,292	150	331030
MBR-361015-GF-S-3	600	1,004	100	331040
MBR-361315-GF-S-3		1,292	150	331050
MBR-381015-GF-S-3	800	1,004	200	331060
MBR-381315-GF-S-3		1,292	250	331070

### Extension bays

1 pre-assembled upright frame, 3 shelves, 3 longitudinal and 3 end stop beams, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341015-AF-S-3	400	1,004	100	331100
MBR-341315-AF-S-3		1,292	150	331110
MBR-351015-AF-S-3	500	1,004	100	331120
MBR-351315-AF-S-3		1,292	150	331130
MBR-361015-AF-S-3	600	1,004	100	331140
MBR-361315-AF-S-3		1,292	150	331150
MBR-381015-AF-S-3	800	1,004	200	331160
MBR-381315-AF-S-3		1,292	250	331170

### Additional compartment levels

1 shelf, 1 longitudinal and 1 end stop beam.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341004-ZF-SE	400	1,004	100	331400
MBR-341292-ZF-SE		1,292	150	331410
MBR-351004-ZF-SE	500	1,004	100	331420
MBR-351292-ZF-SE		1,292	150	331430
MBR-361004-ZF-SE	600	1,004	100	331440
MBR-361292-ZF-SE		1,292	150	331450
MBR-381004-ZF-SE	800	1,004	200	331460
MBR-381292-ZF-SE		1,292	250	331470

Order no. = on stock



## MBR 3000 complete shelving system with 5 tilted shelves (starter bays) – rack height 2,278 mm

2 pre-assembled upright frames, 5 shelves, 5 longitudinal and 5 end stop beams, 10 side rails, 4 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341022-GF-S-5	400	1,004	100	331200
MBR-341322-GF-S-5		1,292	150	331210
MBR-351022-GF-S-5	500	1,004	100	331220
MBR-351322-GF-S-5		1,292	150	331230
MBR-361022-GF-S-5	600	1,004	100	331240
MBR-361322-GF-S-5		1,292	150	331250
MBR-381022-GF-S-5	800	1,004	200	331260
MBR-381322-GF-S-5		1,292	250	331270

### Extension bays

1 pre-assembled upright frame, 5 shelves, 5 longitudinal and 5 end stop beams, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341022-AF-S-5	400	1,004	100	331300
MBR-341322-AF-S-5		1,292	150	331310
MBR-351022-AF-S-5	500	1,004	100	331320
MBR-351322-AF-S-5		1,292	150	331330
MBR-361022-AF-S-5	600	1,004	100	331340
MBR-361322-AF-S-5		1,292	150	331350
MBR-381022-AF-S-5	800	1,004	200	331360
MBR-381322-AF-S-5		1,292	250	331370

### Additional compartment levels

1 shelf, 1 longitudinal and 1 end stop beam.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341004-ZF-SE	400	1,004	100	331400
MBR-341292-ZF-SE		1,292	150	331410
MBR-351004-ZF-SE	500	1,004	100	331420
MBR-351292-ZF-SE		1,292	150	331430
MBR-361004-ZF-SE	600	1,004	100	331440
MBR-361292-ZF-SE		1,292	150	331450
MBR-381004-ZF-SE	800	1,004	200	331460
MBR-381292-ZF-SE		1,292	250	331470

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
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KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

# MBR 3000 double-row shelving with tilted shelf levels



## MBR 3000 complete shelving system with 3 tilted shelves (starter bays) – rack height 1,536 mm

2 pre-assembled upright frames, 6 shelves, 3 longitudinal and 3 end stop beams, 6 intermediate shelf brackets, 12 side rails, 6 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351015-GF-DS-3	1,000	1,004	100	331520
MBR-351315-GF-DS-3		1,292	150	331530
MBR-361015-GF-DS-3	1,200	1,004	100	331540
MBR-361315-GF-DS-3		1,292	150	331550

## Extension bays

1 pre-assembled upright frame, 6 shelves, 3 longitudinal and 3 end stop beams, 6 intermediate shelf brackets, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351015-AF-DS-3	1,000	1,004	100	331620
MBR-351315-AF-DS-3		1,292	150	331630
MBR-361015-AF-DS-3	1,200	1,004	100	331640
MBR-361315-AF-DS-3		1,292	150	331650

## Additional compartment levels

1 shelf, 1 longitudinal and 1 end stop beam, 2 intermediate shelf brackets.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351004-ZF-SD	1,000	1,004	100	331920
MBR-351292-ZF-SD		1,292	150	331930
MBR-361004-ZF-SD	1,200	1,004	100	331940
MBR-361292-ZF-SD		1,292	150	331950



## MBR 3000 complete shelving system with 5 tilted shelves (starter bays) – rack height 2,278 mm

2 pre-assembled upright frames, 10 shelves, 5 longitudinal and 5 end stop beams, 10 intermediate shelf brackets, 20 side rails, 6 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351022-GF-DS-5	1,000	1,004	100	331720
MBR-351322-GF-DS-5		1,292	150	331730
MBR-361022-GF-DS-5	1,200	1,004	100	331740
MBR-361322-GF-DS-5		1,292	150	331750

## Extension bays

1 pre-assembled upright frame, 10 shelves, 5 longitudinal and 5 end stop beams, 10 intermediate shelf brackets, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351022-AF-DS-5	1,000	1,004	100	331820
MBR-351322-AF-DS-5		1,292	150	331830
MBR-361022-AF-DS-5	1,200	1,004	100	331840
MBR-361322-AF-DS-5		1,292	150	331850

## Additional compartment levels

1 shelf, 1 longitudinal and 1 end stop beam, 2 intermediate shelf brackets.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351004-ZF-SD	1,000	1,004	100	331920
MBR-351292-ZF-SD		1,292	150	331930
MBR-361004-ZF-SD	1,200	1,004	100	331940
MBR-361292-ZF-SD		1,292	150	331950

Order no. = on stock



## Individual components



### Additional information about the R 3000 on-line shelving

on request

#### Individual components and accessories for the “MBR” on-line shelving

Item	Usable depth (mm)	Height/Length (mm)	Load (max. kg/bay)	Order no.
<b>Basic shelving frame</b>				
RR34315-V-M	400	1,536	2,500	6671800
RR35315-V-M	500	1,536	2,500	6671801
RR36315-V-M	600	1,536	2,500	6671802
RR38315-V-M	800	1,536	2,500	6671803
<b>Shelving extension frame – double-row</b>				
RRA35315-V-M-Z	470	1,536	2,500*	6671990
RRA36315-V-M-Z	570	1,536	2,500*	6671991
<b>Basic shelving frame</b>				
RR34322-V-M	400	2,278	2,500	6671816
RR35322-V-M	500	2,278	2,500	6671817
RR36322-V-M	600	2,278	2,500	6671818
RR38322-V-M	800	2,278	2,500	6671819
<b>Shelving extension frame – double-row</b>				
RRA35322-V-M-Z	470	2,278	2,500*	6671993
RRA36322-V-M-Z	570	2,278	2,500*	6671994
<b>Shelves</b>				
ZB 341010 V	400	40/ 994	100	145510
ZB 351010 V	500	40/ 994	100	145520
ZB 361010 V	600	40/ 994	100	145530
ZB 381020 V	800	40/ 994	200	145600
ZB 341315 V	400	40/1,282	150	145540
ZB 351315 V	500	40/1,282	150	145550
ZB 361315 V	600	40/1,282	150	145560
ZB 381325 V	800	40/1,282	250	145630
<b>Accessories</b>				
ZBK 3000 R	Intermediate shelf bracket, right			330360
ZBK 3000 L	Intermediate shelf bracket, left			330370
AK 3000	End cap			147130
UP3001-V	Packing plate, thickness 1 mm			6671710

\* The load specifications apply per double-row shelving bay  
= Basic shelving frame and extension frame

Item	Usable depth (mm)	Height/Length (mm)	Load (max. kg)	Order no.
<b>Longitudinal beams</b>				
LTR 31004	—	1,004	250	330340
LTR 31292	—	1,292	250	330350
<b>End stop beams</b>				
ATR 31004	—	1,004	250	330310
ATR 31292	—	1,292	250	330320
<b>End stop rails</b>				
ASL 3100	—	994	—	330610
ASL 3130	—	1,282	—	330620
<b>Side rails</b>				
SF 3404 V	400	40	—	330880
SF 3504 V	500	40	—	330890
SF 3604 V	600	40	—	330900
SF 3804 V	800	40	—	330910
<b>Lane guides made of wire bows</b>				
DFZB 3403 V	400	30	—	330520
DFZB 3503 V	500	30	—	330530
DFZB 3603 V	600	30	—	330540
DFZB 3803 V	800	30	—	330550
<b>Accessories</b>				
SBK 3R	Angled shelf bracket, right			330920
SBK 3L	Angled shelf bracket, left			330930
HUS3-H6x60	Floor fixing set – Screw anchor			6671728
SRTS	Load sign**			39070

\*\* As per DG-UV-Regel 108-007 where required

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



Beams



Frame  
Shelves  
Side rails  
Brackets  
Adapter

## R 7000 on-line shelving

On-line shelving provides a reliable means of storage for any type of containers with diverse dimensions, making them a universal solution.

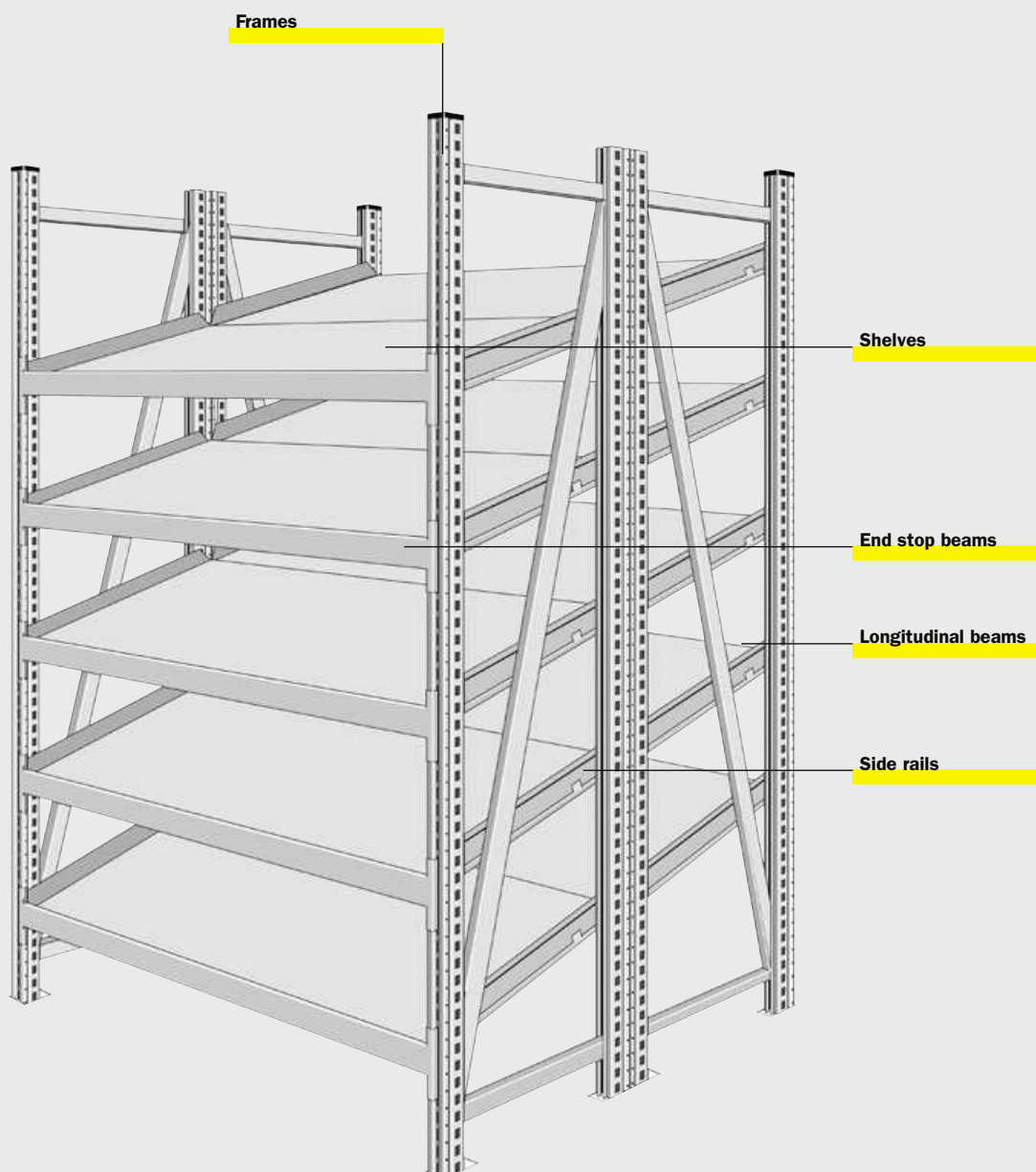
The high load capacity of max. 2.5 tonnes per bay, flexibility due to the combination of basic and extension bays to create shelving rows, the variability of the shelving depths through the single-row and double-row configurations, along with the cost-effective design, distinguish this popular and proven shelving system from SSI SCHAEFER.

Free-standing dividers can be inserted with a 41 mm spacing pattern to partition the shelving.

Pre-assembled frames and system components that can be assembled without screws enable the shelving to be set up rapidly.

On inclined levels, an end stop beam secures the containers. The side rails prevent goods from falling between the rack frames.

- ▶ **Easy and rapid installation**
- ▶ **Stable and sturdy**
- ▶ **Pre-assembled upright frame** with a 53 mm slot pattern
- ▶ **Rack rows of any desired length**
- ▶ **Starter and extension bay construction**
- ▶ **Inclined shelf levels**  
gravity-forced sliding to the removal side with improved handling
- ▶ **Height-adjustable shelves**
- ▶ **Single part staging**  
directly at the assembly work station
- ▶ **First-in-First-out principle (FIFO)**
- ▶ **Reduces costs**



## “G” single-row shelving



Example with 5 levels  
Offer without containers

### “G” complete shelving system with 3 flat shelf levels (starter bays) 1,534 mm high

2 pre-assembled upright frames, 6 longitudinal beams, 3 shelves,  
6 side rails, 1 load sign.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-G-3	400	995	100	6670905
MBR-741283-GF-G-3		1,283	150	6670909
MBR-750995-GF-G-3	500	995	100	6670906
MBR-751283-GF-G-3		1,283	150	6670910
MBR-760995-GF-G-3	600	995	100	6670907
MBR-761283-GF-G-3		1,283	150	6670911
MBR-780995-GF-G-3	800	995	200	6670908
MBR-781283-GF-G-3		1,283	250	6670912

### Extension bays

1 pre-assembled upright frame, 6 longitudinal beams, 3 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-G-3	400	995	100	6670945
MBR-741283-AF-G-3		1,283	150	6670949
MBR-750995-AF-G-3	500	995	100	6670946
MBR-751283-AF-G-3		1,283	150	6670950
MBR-760995-AF-G-3	600	995	100	6670947
MBR-761283-AF-G-3		1,283	150	6670951
MBR-780995-AF-G-3	800	995	200	6670948
MBR-781283-AF-G-3		1,283	250	6670952

### Additional compartment levels

2 longitudinal beams, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-G	400	995	100	6670985
MBR-741283-ZF-G		1,283	150	6670989
MBR-750995-ZF-G	500	995	100	6670986
MBR-751283-ZF-G		1,283	150	6670990
MBR-760995-ZF-G	600	995	100	6670987
MBR-761283-ZF-G		1,283	150	6670991
MBR-780995-ZF-G	800	995	200	6670988
MBR-781283-ZF-G		1,283	250	6670992

Order no. = on stock

### “G” complete shelving system with 5 flat shelf levels (starter bays) 2,170 mm high

2 pre-assembled upright frames, 10 longitudinal beams, 5 shelves,  
10 side rails, 1 load sign.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-G-5	400	995	100	6670913
MBR-741283-GF-G-5		1,283	150	6670917
MBR-750995-GF-G-5	500	995	100	6670914
MBR-751283-GF-G-5		1,283	150	6670918
MBR-760995-GF-G-5	600	995	100	6670915
MBR-761283-GF-G-5		1,283	150	6670919
MBR-780995-GF-G-5	800	995	200	6670916
MBR-781283-GF-G-5		1,283	250	6670920

### Extension bays

1 pre-assembled upright frame, 10 longitudinal beams, 5 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-G-5	400	995	100	6670953
MBR-741283-AF-G-5		1,283	150	6670957
MBR-750995-AF-G-5	500	995	100	6670954
MBR-751283-AF-G-5		1,283	150	6670958
MBR-760995-AF-G-5	600	995	100	6670955
MBR-761283-AF-G-5		1,283	150	6670959
MBR-780995-AF-G-5	800	995	200	6670956
MBR-781283-AF-G-5		1,283	250	6670960

### Additional compartment levels

2 longitudinal beams, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-G	400	995	100	6670985
MBR-741283-ZF-G		1,283	150	6670989
MBR-750995-ZF-G	500	995	100	6670986
MBR-751283-ZF-G		1,283	150	6670990
MBR-760995-ZF-G	600	995	100	6670987
MBR-761283-ZF-G		1,283	150	6670991
MBR-780995-ZF-G	800	995	200	6670988
MBR-781283-ZF-G		1,283	250	6670992

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



## “S” single-row shelving



Example with 5 levels  
Offer without containers

### “S” complete shelving system with 3 tilted shelf levels (starter bays) 1,534 mm high

2 pre-assembled upright frames, 3 longitudinal and 3 end stop beams, 3 shelves, 6 side rails, 1 load sign.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-S-3	400	995	100	6670921
MBR-741283-GF-S-3		1,283	150	6670925
MBR-750995-GF-S-3	500	995	100	6670922
MBR-751283-GF-S-3		1,283	150	6670926
MBR-760995-GF-S-3	600	995	100	6670923
MBR-761283-GF-S-3		1,283	150	6670927
MBR-780995-GF-S-3	800	995	200	6670924
MBR-781283-GF-S-3		1,283	250	6670928

### Extension bays

1 pre-assembled upright frame, 3 longitudinal and 3 end stop beams, 3 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-S-3	400	995	100	6670961
MBR-741283-AF-S-3		1,283	150	6670965
MBR-750995-AF-S-3	500	995	100	6670962
MBR-751283-AF-S-3		1,283	150	6670966
MBR-760995-AF-S-3	600	995	100	6670963
MBR-761283-AF-S-3		1,283	150	6670967
MBR-780995-AF-S-3	800	995	200	6670964
MBR-781283-AF-S-3		1,283	250	6670968

### Additional compartment levels

1 longitudinal and 1 end stop beam, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-S	400	995	100	6670993
MBR-741283-ZF-S		1,283	150	6670997
MBR-750995-ZF-S	500	995	100	6670994
MBR-751283-ZF-S		1,283	150	6670998
MBR-760995-ZF-S	600	995	100	6670995
MBR-761283-ZF-S		1,283	150	6670999
MBR-780995-ZF-S	800	995	200	6670996
MBR-781283-ZF-S		1,283	250	6671000

### “S” complete shelving system with 5 tilted shelf levels (starter bays) 2,170 mm high

2 pre-assembled upright frames, 5 longitudinal and 5 end stop beams, 5 shelves, 10 side rails, 1 load sign.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-S-5	400	995	100	6670929
MBR-741283-GF-S-5		1,283	150	6670933
MBR-750995-GF-S-5	500	995	100	6670930
MBR-751283-GF-S-5		1,283	150	6670934
MBR-760995-GF-S-5	600	995	100	6670931
MBR-761283-GF-S-5		1,283	150	6670935
MBR-780995-GF-S-5	800	995	200	6670932
MBR-781283-GF-S-5		1,283	250	6670936

### Extension bays

1 pre-assembled upright frame, 5 longitudinal and 5 end stop beams, 5 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-S-5	400	995	100	6670969
MBR-741283-AF-S-5		1,283	150	6670973
MBR-750995-AF-S-5	500	995	100	6670970
MBR-751283-AF-S-5		1,283	150	6670974
MBR-760995-AF-S-5	600	995	100	6670971
MBR-761283-AF-S-5		1,283	150	6670975
MBR-780995-AF-S-5	800	995	200	6670972
MBR-781283-AF-S-5		1,283	250	6670976

### Additional compartment levels

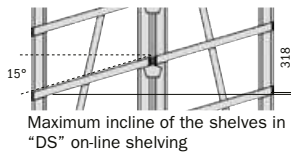
1 longitudinal and 1 end stop beam, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-S	400	995	100	6670993
MBR-741283-ZF-S		1,283	150	6670997
MBR-750995-ZF-S	500	995	100	6670994
MBR-751283-ZF-S		1,283	150	6670998
MBR-760995-ZF-S	600	995	100	6670995
MBR-761283-ZF-S		1,283	150	6670999
MBR-780995-ZF-S	800	995	200	6670996
MBR-781283-ZF-S		1,283	250	6671000

Order no. = on stock



- **Height-adjustable**  
shelves with a 53 mm hole pattern
- **Single part provision**  
directly at the assembly work station
- **First-in-First-out principle**



### "DS" complete shelving system with 3 tilted shelf levels (starter bays) 1,534 mm high

4 pre-assembled upright frames, 3 longitudinal and 3 end stop beams, 6 shelf brackets, 6 bracket adapters, 6 shelves, 12 side rails, 1 load sign.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-GF-DS-3	1,000	995	100	6670937
MBR-751283-GF-DS-3		1,283	150	6670939
MBR-760995-GF-DS-3	1,200	995	100	6670938
MBR-761283-GF-DS-3		1,283	150	6670940

### Extension bays

2 pre-assembled upright frames, 3 longitudinal and 3 end stop beams, 6 shelf brackets, 6 bracket adapters, 6 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-AF-DS-3	1,000	995	100	6670977
MBR-751283-AF-DS-3		1,283	150	6670979
MBR-760995-AF-DS-3	1,200	995	100	6670978
MBR-761283-AF-DS-3		1,283	150	6670980

### Additional compartment levels

1 longitudinal and 1 end stop beam, 2 shelf brackets, 2 bracket adapters, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-ZF-DS	1,000	995	100	6671001
MBR-751283-ZF-DS		1,283	150	6671003
MBR-760995-ZF-DS	1,200	995	100	6671002
MBR-761283-ZF-DS		1,283	150	6671004

## "DS" double-row shelving

### "DS" complete shelving system with 5 tilted shelf levels (starter bays) 2,170 mm high

4 pre-assembled upright frames, upright 5 longitudinal and 5 end stop beams, 10 shelf brackets, 10 bracket adapters, 10 shelves, 20 side rails, 1 load sign.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-GF-DS-5	1,000	995	100	6670941
MBR-751283-GF-DS-5		1,283	150	6670943
MBR-760995-GF-DS-5	1,200	995	100	6670942
MBR-761283-GF-DS-5		1,283	150	6670944

### Extension bays

2 pre-assembled upright frames, 5 longitudinal and 5 end stop beams, 10 shelf brackets, 10 bracket adapters, 10 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-AF-DS-5	1,000	995	100	6670981
MBR-751283-AF-DS-5		1,283	150	6670983
MBR-760995-AF-DS-5	1,200	995	100	6670982
MBR-761283-AF-DS-5		1,283	150	6670984

### Additional compartment levels

1 longitudinal and 1 end stop beam, 2 shelf brackets, 2 bracket adapters, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-ZF-DS	1,000	995	100	6671001
MBR-751283-ZF-DS		1,283	150	6671003
MBR-760995-ZF-DS	1,200	995	100	6671002
MBR-761283-ZF-DS		1,283	150	6671004

**Note:** Due to technical reasons, the front and rear levels of double-row designs may have slightly different angles.

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix

# Individual components



## Individual components for the "G, S, DS" on-line shelving

Item	Usable depth (mm)	Height/Length (mm)	Load (max. kg)	Order no.
<b>Frames</b>				
RRL 7401 V	400	1,534	2,500	39205
RRL 7501 V	500	1,534	2,500	39215
RRL 7601 V	600	1,534	2,500	39225
RRL 7801 V	800	1,534	2,500	39235
RRL 7402 V	400	2,170	2,500	39950
RRL 7502 V	500	2,170	2,500	76610
RRL 7602 V	600	2,170	2,500	39200
RRL 7802 V	800	2,170	2,500	38900
<b>Longitudinal beams</b>				
LTR 7099	400 - 800	995	250	39250
LTR 7128	400 - 800	1,283	250	39260
<b>End stop beams</b>				
ATR 74099	400	995	250	39980
ATR 7099	500 - 800	995	250	39220
ATR 74128	400	1,283	250	39990
ATR 7128	500 - 800	1,283	250	39230
<b>Shelves</b>				
ZB 4413 V	400	30/ 995	100	27012
ZB 4513 V	500	30/1,283	150	27032
ZB 4613 V	600	30/ 995	100	27072
ZB 4823 V	800	30/1,283	150	27172
ZB 9415 V	400	30/ 995	100	38102
ZB 9515 V	500	30/1,283	150	38112
ZB 9615 V	600	30/ 995	200	38132
ZB 9825 V	800	30/1,283	250	38282
<b>Side rails</b>				
SF 3404	400	40	—	330880
SF 3504	500	40	—	330890
SF 3604	600	40	—	330900
SF 3804	800	40	—	330910
<b>Accessories</b>				
ZBK 7000	Shelf bracket for DS design			39280
KA 7000	Bracket adapter for DS design			39290
ZBT 7000	Shelf support* (4 pcs. per shelf)			38930
AK 7000	Cover caps for rack frames			29350
SRTS	Load sign**			39070

\* Only usable for level shelves in combination with at least 3 reinforcing beam levels

\*\* As per DG-UV-Regel 108-007 where required



## Undercarriage for R 7000 glide real on-line shelving

For easily relocating basic shelving units. Consisting of 2 beams, 1 cross brace and 4 swivel castors, 2 with lock. Load capacity per undercarriage 500 kg.

Item	Bay width (mm)	Frame depth (mm)	Order no.
TFW 70610	995	600	321300
TFW 70810		800	321301
TFW 71010		1,000	321302
TFW 71210		1,200	321303
TFW 70613	1,283	600	321304
TFW 70813		800	321305
TFW 71013		1,000	321306
TFW 71213		1,200	321307

## Undercarriage for modular shelvings

Enables easy relocation of basic shelving units when unloaded.

Consisting of 4 swivel castors, 2 with locks. Bolted assembly with adapter plate directly underneath the supports. One beam and 4 frame connectors are delivered for the required reinforcement. In addition, 2 sliding bars made of plastic are included in the delivery.



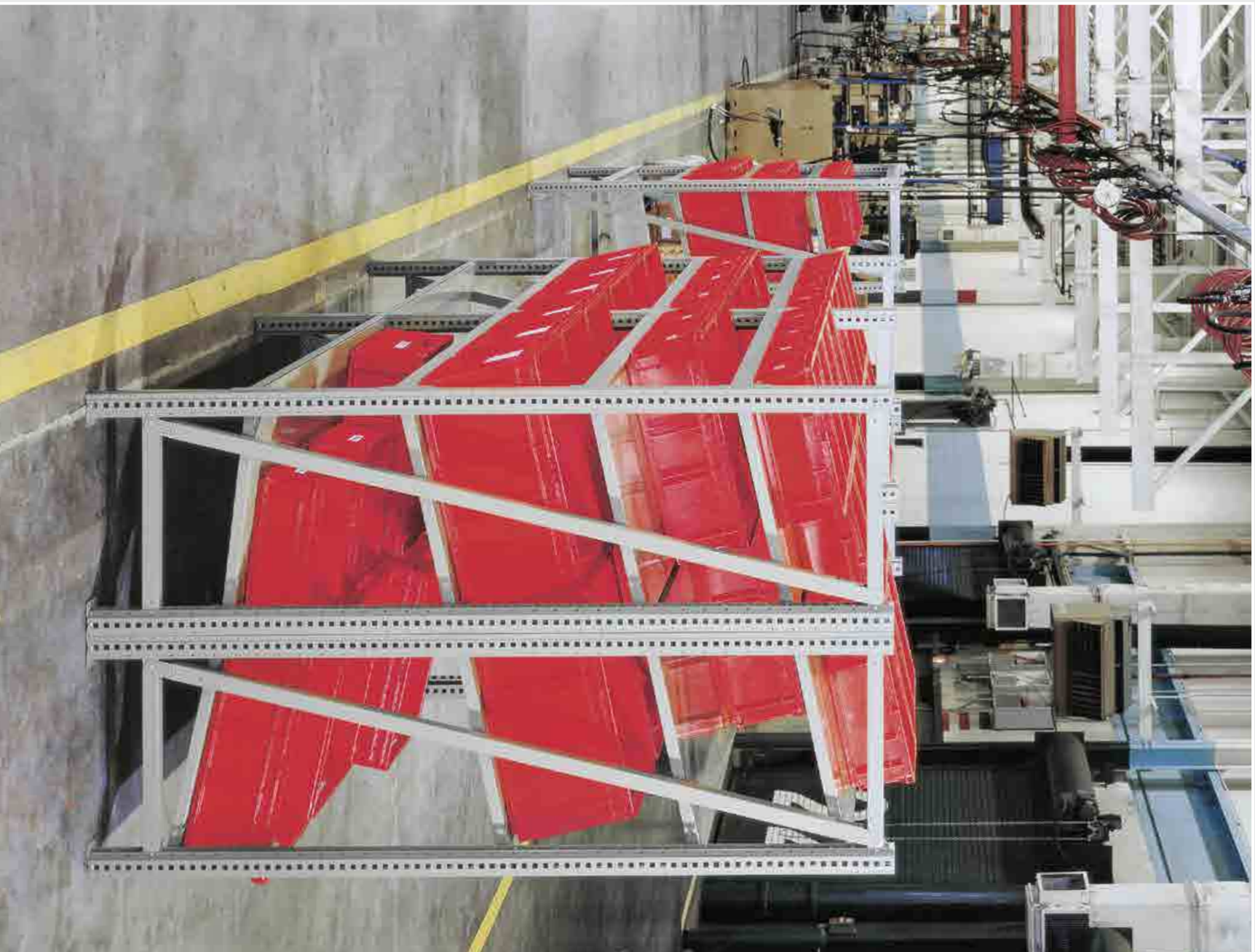
### Safety note:

Shelving units may only be moved when unloaded.

Item	Bay width (mm)	Height (mm)	Load max. (kg)	Order no.
FW 70995	995	155	500	79210
FW 71283	1,283	155	500	79220

Order no. = on stock







## KDR – the live storage shelving system with diverse options



Stable and sturdy frames connected to reinforcing beams create a “rack scaffold” for fitting complete live storage shelving units. The height and angle of the flow beds can be quickly adjusted without screws using adjusting hooks in steps of 6.25 mm (post type P63/P65) or 12.5 mm (post type P73/P93) and also horizontally in 25 mm steps.

The staircase design of the flow beds with outfeed panels or enabled geometry can fulfill all ergonomic requirements.

Transverse transport conveyors can be connected cost-effectively using underlays placed on the supports.

Robust roller tracks in various designs guarantee problem-free movement of the containers from the supply to the removal side. The use of various

separating strip systems enables the configuration of guides (channels) for the specific load carrier types.





# KDR system design – stationary

GENTIAN BLUE

GALVANIZED



Beams

Frame  
Glide rails  
Brackets  
Adapter

RAL 5010

- ▶ **High load capacity**  
and high rigidity due to sturdy support, 60, 75 and 90 mm thick
- ▶ **System hole pattern**  
in the upright profiles with adjustment spacing 50 : 50 mm
- ▶ **The best height and gradient adjustment**  
of the flow bed to the storage goods due to the small hole pattern, e.g. 6.25 mm
- ▶ **Plug-in anti-lifting device**
- ▶ **Flexible and modular bold-free system**  
due to adjustable rolls and partitions for configuring channels with a spacing of 5 mm per roll
- ▶ **Roller tracks for smooth conveying**  
optionally with a load capacity of 5 kg and 12 kg
- ▶ **Can be combined**  
with other SSI SCHAEFER rack systems
- ▶ **Easy connection**  
to all conveyor systems
- ▶ **Vast range of accessories**

## Starter and extension bay construction

The stationary design is available with either the starter or extension bay construction

Anchoring the uprights to the floor prevents the bays from slipping and provides additional stability.

Anti-lifting devices

Reinforcing cross beam

Dividing rails

Roller tracks

Side profiles

Frame

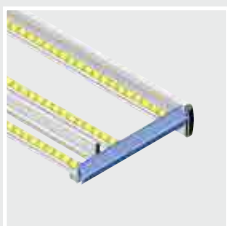
Flow bed, tilted

Flow bed, flat/tilted

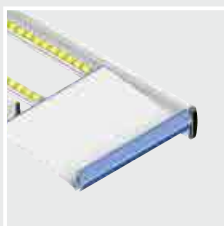
Flow bed, flat

Conveying system supports

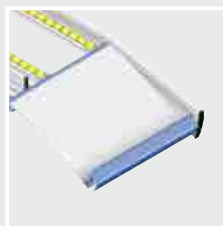
Label surfaces



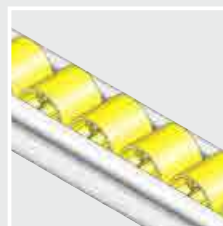
Flow bed, flat



Flow bed, flat/tilted



Flow bed, tilted



Roller track



Dividing rail

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



## KDR/KLT live storage – the system for KLT containers



Further information about the KDR system

on request



GENTIAN BLUE

GALVANIZED



Beams  
Lateral connectors  
(front and rear)



Frame  
Outfeed panel  
Side profiles

- ▶ **High load capacity**  
and high rigidity due to sturdy support,  
60, 75 and 90 mm thick
- ▶ **System hole pattern**  
in the upright profiles with adjustment  
spacing 50 : 50 mm
- ▶ **The best height and gradient  
adjustment**  
of the flow bed to the storage goods due  
to the small hole pattern, e.g. 6.25 mm
- ▶ **Plug-in anti-lifting device**
- ▶ **Flexible and modular bolt-free system**  
due to adjustable rolls and partitions for  
configuring channels with a spacing of 5 mm
- ▶ **Roller tracks for smooth conveying**  
optionally with a load capacity of 5 kg and  
12 kg
- ▶ **Can be combined**  
with other SSI SCHAEFER rack systems
- ▶ **Easy connection**  
to all conveyor systems
- ▶ **Vast range of accessories**

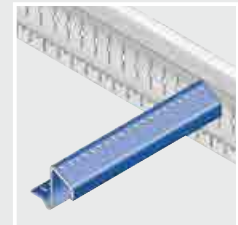
### Starter bay construction

The movable units are constructed using starter bays.

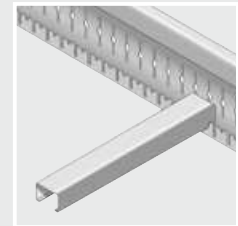
For containers with a "honeycomb base" (C-KLTs with grooves) and containers with a large stacking rim, there is a KLT model for the special requirements.



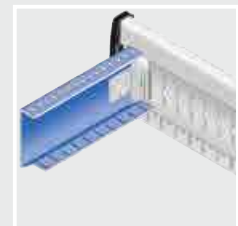
Lateral connectors, front



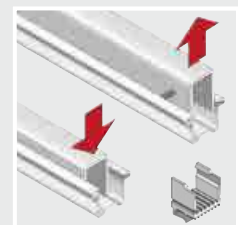
Lateral connectors, tilted



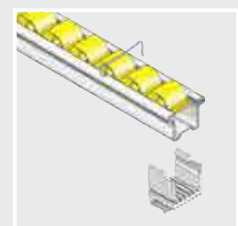
Lateral connectors, internal



Lateral connectors, rear KLT



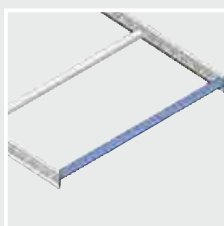
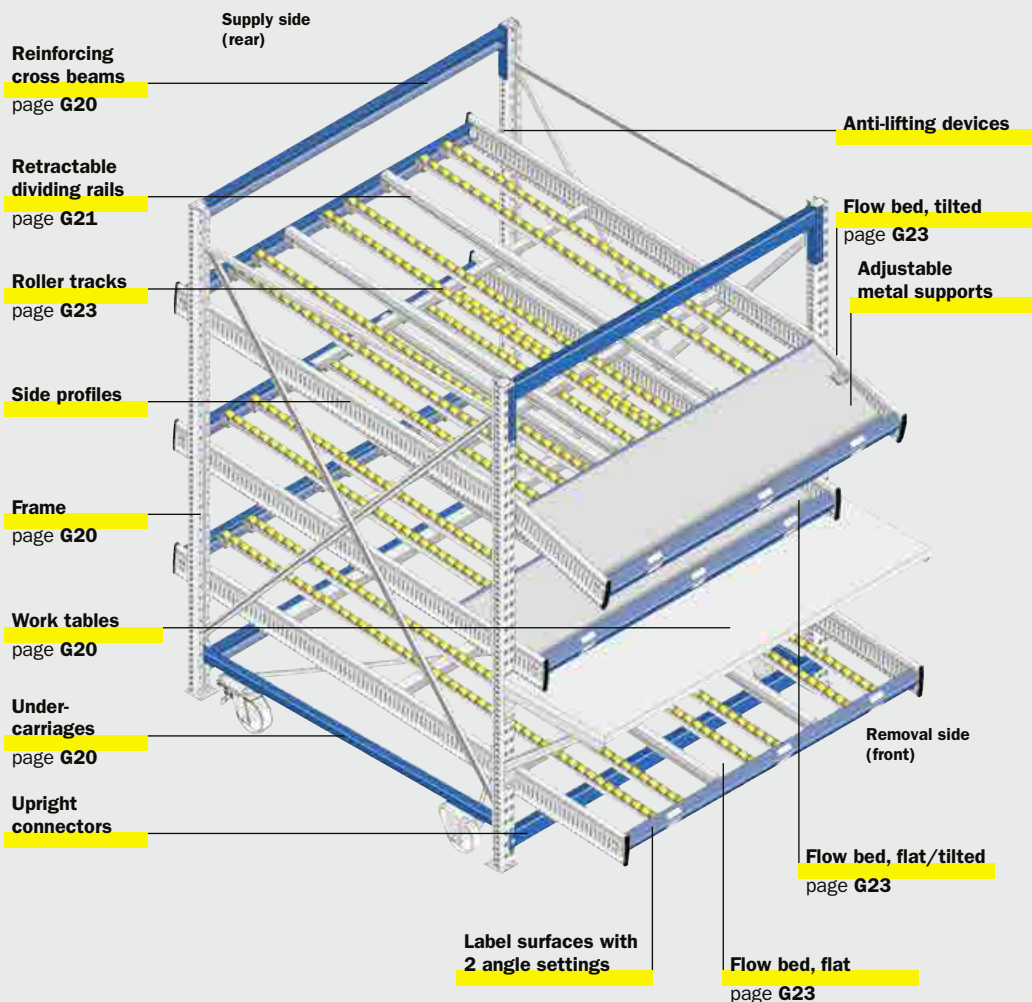
Retractable dividing rail with docking clip



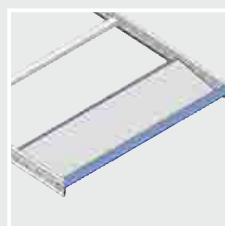
Roller track with brake clip and brake strap

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

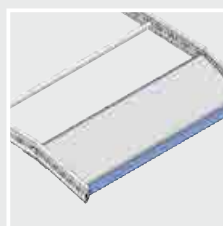
Appendix



Flow bed, flat



Flow bed, flat/tilted



Flow bed, tilted



Anti-lifting device      Cover caps



## KDR/KLT live storage shelving – conductive design (ESD) for protecting high-quality electronic components



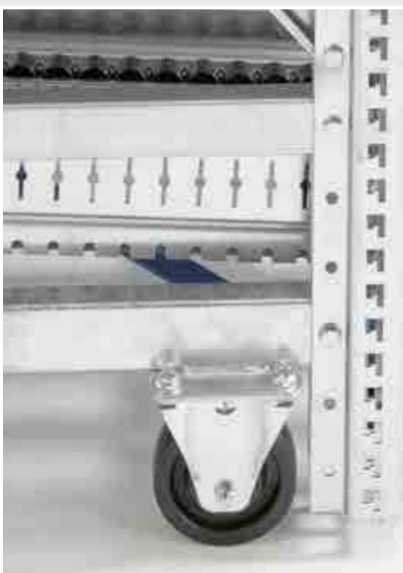
**i** Further information about the KDR system in conductive design (ESD)

on request

### Protection against electrostatic discharge

Protection against electrostatic discharge creates special requirements for shelving equipment. According to EN 61340-5-1:2001 it is essential that all of the individual measures for handling these sensitive components are effectively coordinated with each other.

In particular, this applies to the packaging of the electronic components, the transport containers, the shelving equipment, the conduct of flooring or the Echo potential bonding and, not least, the protective clothing worn by the employees working in ESD areas.



Fixed castor, conductive



Dividing rails and conductive roller tracks



Swivel castor with stopper



GENTIAN BLUE



Beams

GALVANIZED



Frame  
Lateral connector  
Undercarriage beams  
Outfeed panels

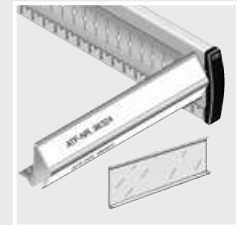
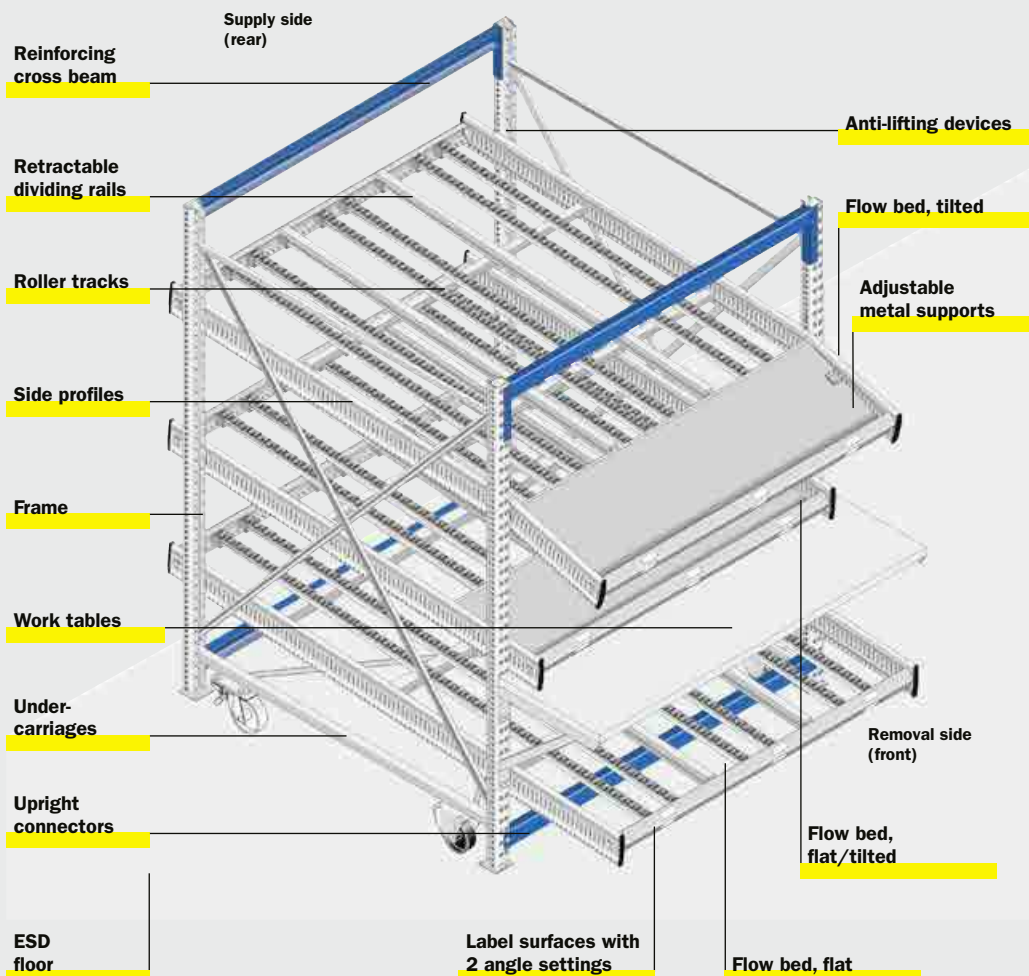
- ▶ **High load capacity**  
and high rigidity due to sturdy uprights, 60, 75 and 90 mm thick
- ▶ **System hole pattern**  
in the upright profiles with adjustment spacing 50 : 50 mm
- ▶ **The best height and gradient adjustment**  
of the flow bed to the storage goods due to the small hole pattern, e.g. 6.25 mm
- ▶ **Plug-in anti-lifting device**
- ▶ **Flexible and modular bolt-free system**  
due to adjustable rolls and partitions for configuring channels with a spacing of 5 mm
- ▶ **Roller tracks for smooth conveying**  
with a load capacity of 12 kg
- ▶ **Highly conductive rollers**  
black, with steel axles
- ▶ **Can be combined**  
with other SSI SCHAEFER rack systems
- ▶ **Easy connection**  
to all conveyor systems
- ▶ **Vast range of accessories**
- ▶ **Quality tested and certified**  
by TÜV Rheinland



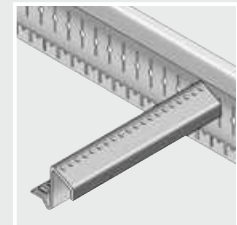
## KDR/KLT system design for ESD version – with undercarriage

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

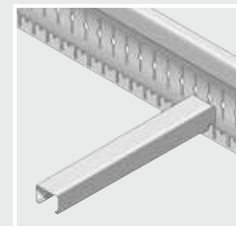
Appendix



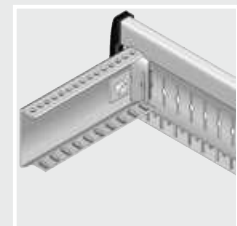
Lateral connectors, front



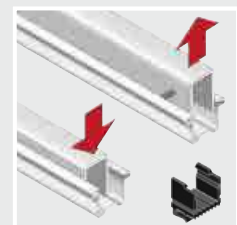
Lateral connectors, tilted



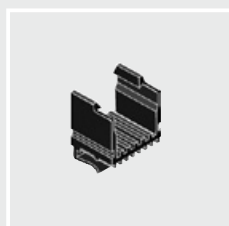
Lateral connectors, internal



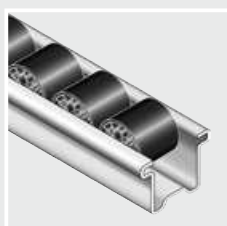
Lateral connectors, rear KLT



Retractable dividing rail with docking clip



Docking clip, conductive



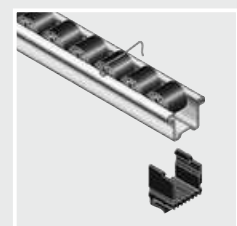
Roller track, conductive



Fixed castor, conductive



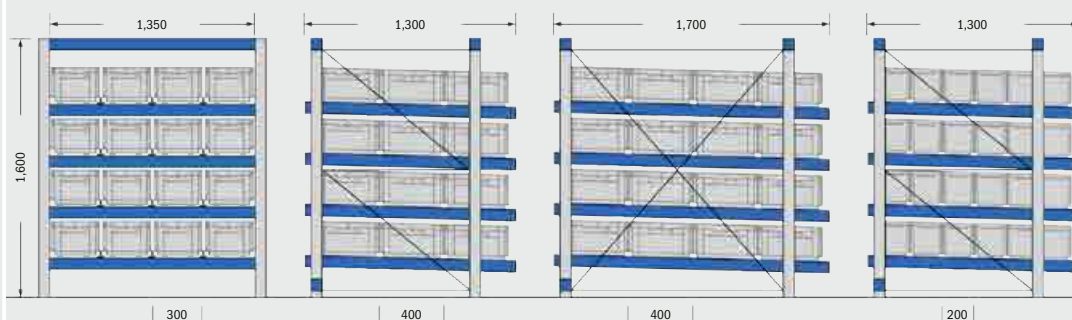
Undercarriage, conductive



Roller track with brake clip and brake strap

# KDR live storage shelving with European dimensions – complete shelving units for container sizes 300 x 400 mm / 200 x 300 mm

- **Stable**  
sturdy upright frame, 3 reinforcing cross beams per bay, floor fixing
- **Rollers**  
with plastic axles,  
load capacity 5 kg per individual roller



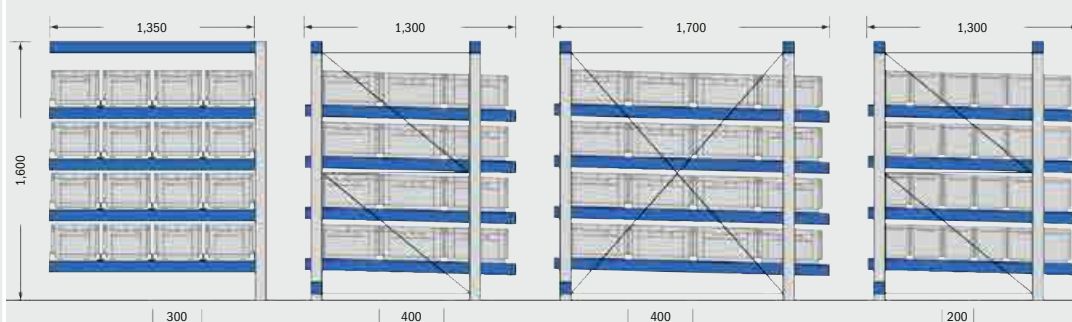
## KDR complete shelving system – starter bays

Consisting of 2 frames and 3 reinforcing cross beams.

Equipment for each shelving bay:  
4 flat flow beds above each other;  
8 roller tracks per flow bed, 28 mm divisions;  
3 standard dividing rails per flow bed.

Clear bay width 1,350 mm, clear channel width 310 mm,  
total width 1,470 mm, height 1,600 mm

Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-GF-1350-1300-4-BG01	1,300	180	Flat	464300
K-GF-1350-1700-4-BG01	1,700	270	Flat	464310
<b>additional flow beds</b>				
K-DLR-1350-1300-BG01	1,300	180	Flat	464320
K-DLR-1350-1700-BG01	1,700	270	Flat	464330



## KDR complete shelving system – extension bays

Consisting of 1 frames and 3 reinforcing cross beams.

Equipment for each shelving bay:  
4 tilted flow beds above each other;  
8 roller tracks per flow bed, 28 mm divisions;  
3 standard dividing rails per flow bed.

Clear bay width 1,350 mm, clear channel width 310 mm,  
total width 1,410 mm, height 1,600 mm

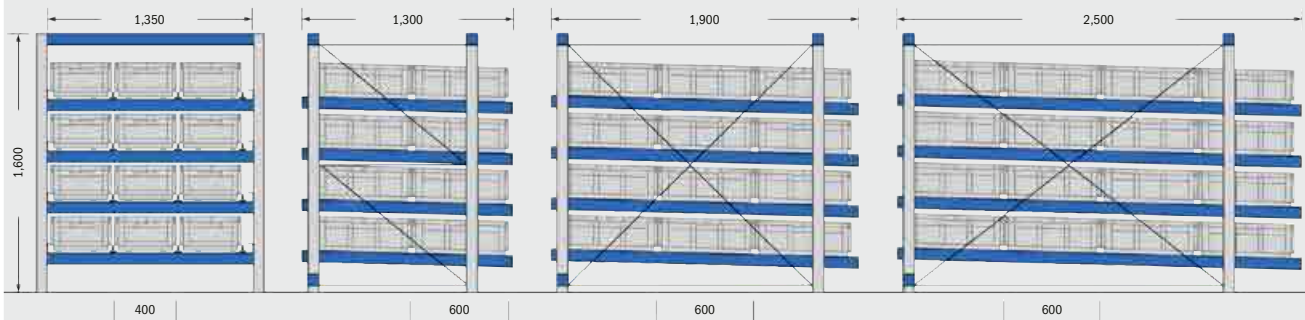
Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-AF-1350-1300-4-BG01	1,300	180	Flat	464340
K-AF-1350-1700-4-BG01	1,700	270	Flat	464350
<b>additional flow beds</b>				
K-DLR-1350-1300-BG01	1,300	180	Flat	464320
K-DLR-1350-1700-BG01	1,700	270	Flat	464330

Order no. = on stock

► **Flow bed, flat**

angle adjustable in 6.25 mm steps  
depth adjustable in 25 mm steps,  
can also be used as a return level

# KDR live storage shelving with European dimensions – complete shelving units for container sizes 600 x 400 mm



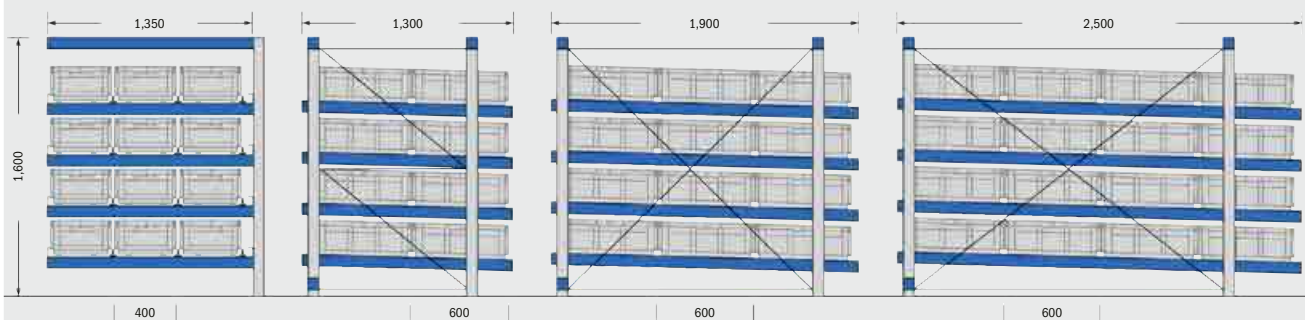
**Clear bay width 1,350 mm, clear channel width 410 mm,  
total width 1,470 mm, height 1,600 mm**

Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-GF-1350-1300-4-BG02	1,300	180	Flat	464360
K-GF-1350-1900-4-BG02	1,900	270	Flat	464370
K-GF-1350-2500-4-BG02	2,500	360	Flat	464380
<b>additional flow beds</b>				
K-DLR-1350-1300-BG02	1,300	180	Flat	464390
K-DLR-1350-1900-BG02	1,900	270	Flat	464400
K-DLR-1350-2500-BG02	2,500	360	Flat	464410

## KDR complete shelving system – starter bays

Consisting of 2 frames and 3 reinforcing cross beams.

Equipment for each shelving bay:  
4 tilted flow beds above each other;  
6 roller tracks per flow bed, 28 mm divisions;  
3 standard dividing rails per flow bed.



**Clear bay width 1,350 mm, clear channel width 410 mm,  
total width 1,410 mm, height 1,600 mm**

Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-AF-1350-1300-4-BG02	1,300	180	Flat	464420
K-AF-1350-1900-4-BG02	1,900	270	Flat	464430
K-AF-1350-2500-4-BG02	2,500	360	Flat	464440
<b>additional flow beds</b>				
K-DLR-1350-1300-BG02	1,300	180	Flat	464390
K-DLR-1350-1900-BG02	1,900	270	Flat	464400
K-DLR-1350-2500-BG02	2,500	360	Flat	464410

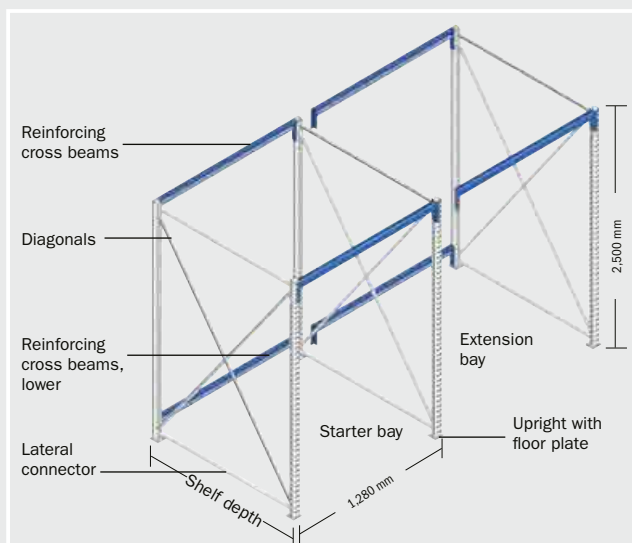
## KDR complete shelving system – extension bays

Consisting of 1 frames and 3 reinforcing cross beams.

Equipment for each shelving bay:  
4 tilted flow beds above each other;  
6 roller tracks per flow bed, 28 mm divisions;  
3 standard dividing rails per flow bed.



# System components

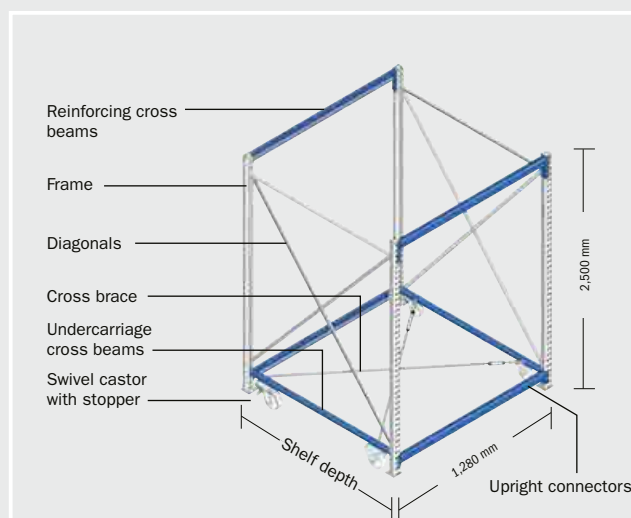
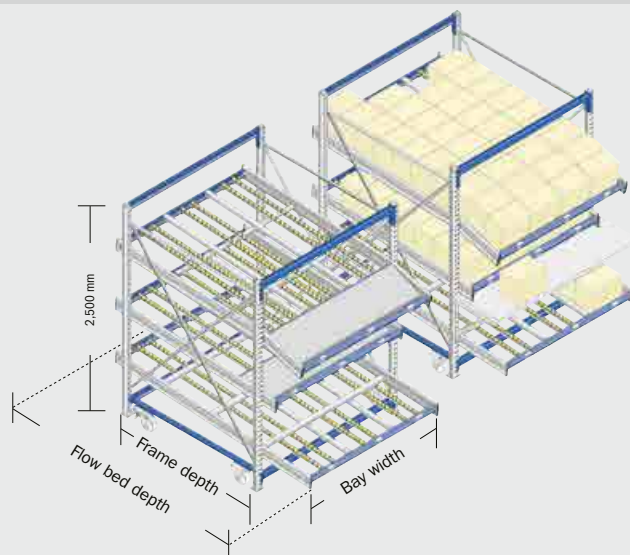


## Starter and extension bays

Starter bays consisting of 2 frames and 3 horizontal beams; extension bays consisting of 1 frame and 3 horizontal beams.

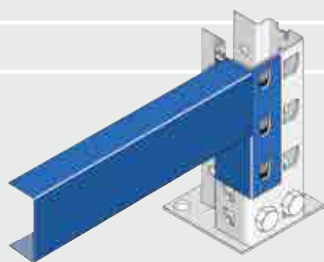
## End caps

High-quality black plastic. Attached to the rack uprights as an end piece.



## Starter bay with undercarriage

Consisting of 2 frames and 2 cross beams, 2 upright connectors, 2 undercarriage cross beam, 1 cross brace, 2 fixed and 2 swivel castors with stoppers. Load capacity per rack bay with undercarriage max. 1,600 kg.

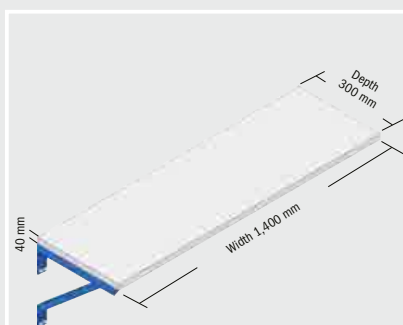


## Reinforcing cross beam (U-profile) for upright profiles P 63, P 65 and P 73

Reinforcing cross beams and uprights form a separate unit. This separates the supporting shelving construction from the live storage levels. As a consequence, a level can be adjusted without having to first storage empty the entire shelving.

The cross beams only serve to reinforce the rack construction and are not intended for storing pallets. Additional reinforcing cross beams are fitted at the rear in accordance with the static requirements.

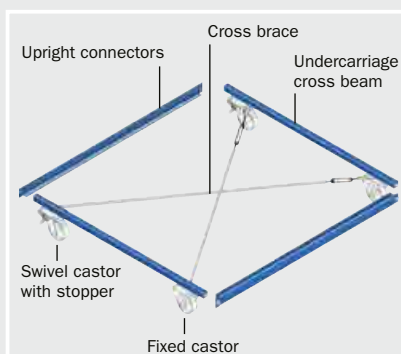
Surface finish: Gentian Blue, RAL 5010.



## Work table

For pre-assembly or storage. 2 cantilever supports and 1 multiplex board, 40 mm thick.

Cantilever surface finish: Gentian Blue, RAL 5010.



## Undercarriage

Enables easy relocation of starter bays.

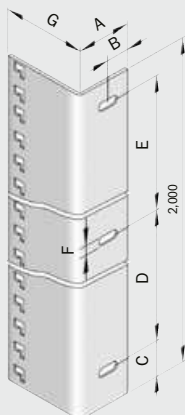
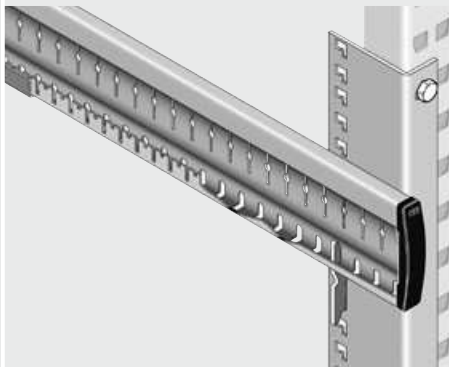
Equipped with 2 upright connectors, 2 undercarriage cross beam, 1 cross brace, 2 fixed castors and 2 swivel castors with stoppers.

Load capacity per shelving bay with undercarriage: max. 1,600 kg.

Surface finish: Gentian Blue, RAL 5010.

- Can be combined with existing pallet racking systems
- Shorter paths
- Time savings
- Better ergonomics and rapid access
- Clear product range
- Automatic resupply of goods
- First-in-First-out
- Separate supply and removal procedures

## KDR adapter solutions for pallet racking systems, partition strips



Support adapter, left

Flow bed, flat/tilted

Flow bed, flat

Support adapter, right

Total rack frame depth

### Support adapter

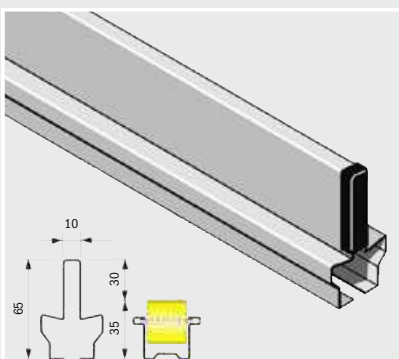
For fastening on rack uprights of existing pallet racking systems – PR 350 and third-party brands. For quick and easy retrofitting with flow beds.

The profiles of the support adapters are individually adapted to the pallet racking uprights.

Article on request.

**When submitting an inquiry, please specify the following dimensions and existing rack brand/type:**

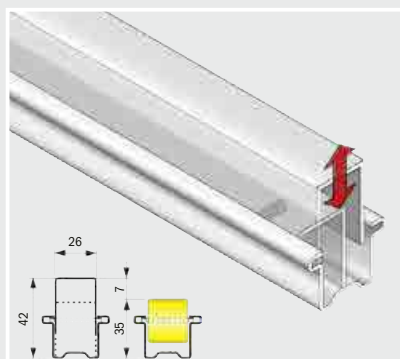
Dimensions	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)



### Standard dividing rails

Made of steel, prevent two stored items running next to each other from jamming. They can be adjusted in 5.0 mm steps and are equipped with protective plugs to prevent hand injuries.

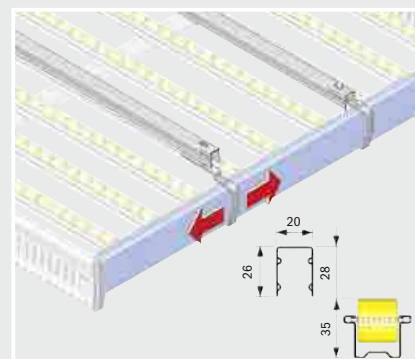
Surface, galvanized.



### Recessed dividing rails

For the universal use of KLT containers.

Surface, galvanized



### Multi dividing rails/clips

Multi dividing rails can be adjusted horizontally in 10 mm steps. Ideal in combination with a roller carpet for frequently changing storage goods.

Surface, galvanized



**Further information about the KDR system**

on request

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

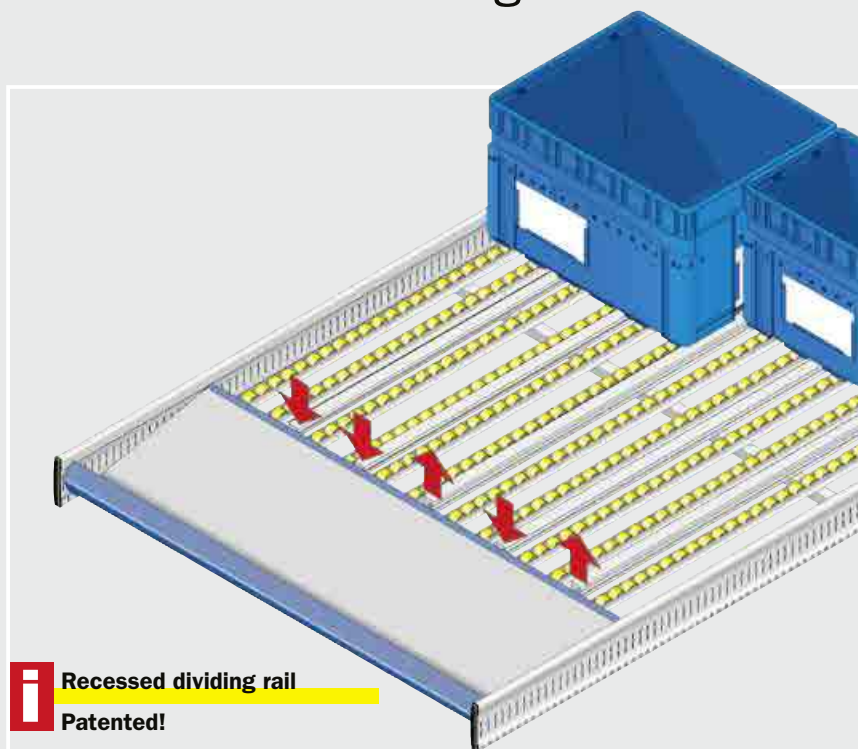
On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

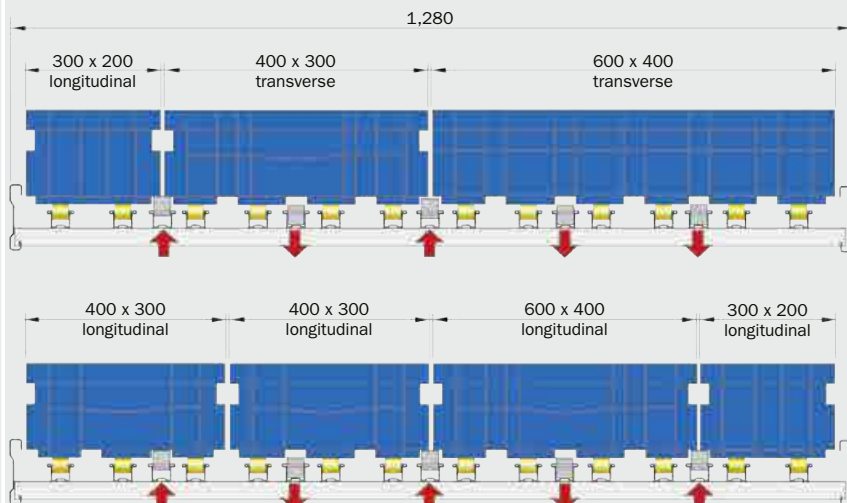
Appendix

## KLT flow bed with recessed dividing rail



**i** Recessed dividing rail  
Patented!

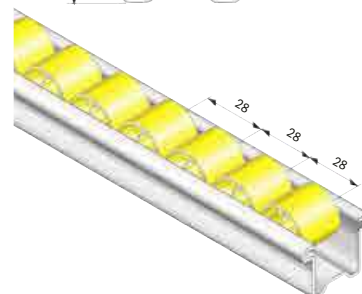
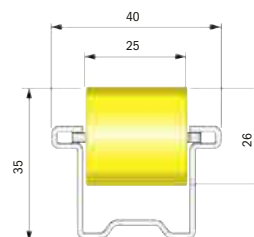
Example for clear bay width of 1,280 mm



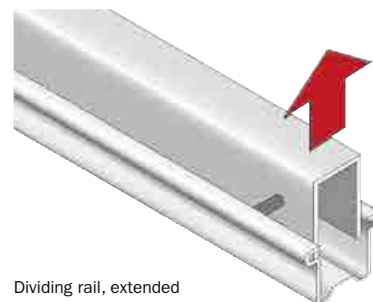
Retracting or extending the dividing rail enables containers with different dimensions to be mixed on one level



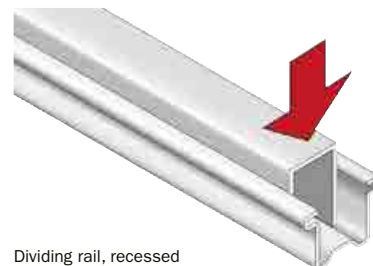
- **Always the right channel widths** for system containers with 200/400 mm or 300/600 mm standard dimensions through the use of partition strips that can be recessed quickly and without using tools. There is no need to move the partition or roller tracks.
- **Harmonized rack dimensions** for all KLT container sizes
- **Easy assembly and adjustment using the bolt-free system**
- **Usable without conversion** as a conventional live storage shelving
- **Harmonized system profiles** prevent the container base from jamming
- **Gradient and height adjustment** in 6.25 mm steps
- **Without depth restriction** when adjusting the gripping curve
- **Flow bed with plug-in anti-lifting device**
- **Locking spreader for roller tracks**
- **Roller tracks** optionally with steel axle, 12 kg load capacity per roller



### ► Recessed dividing rail



Dividing rail, extended



Dividing rail, recessed





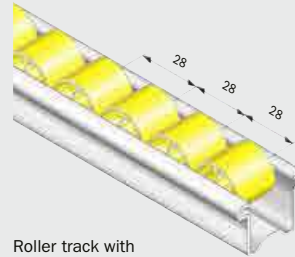
- **Rigid rail profile**  
with spreading reinforcement made of galvanized sheet steel
- **Sturdy and durable rollers**  
made of high quality plastic, roller spacing 28 mm
- **Honeycomb-shaped roller reinforcing**  
for very good form stability and smooth conveying
- **High load capacity**  
5 kg per roller or 12 kg per roller for the version with a steel axle
- **Also usable in deep-freeze areas down to -30° C**
- **Long service life**

## Roller tracks

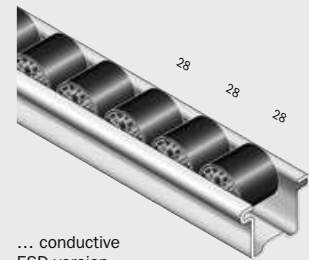
The roller load capacity is 5 kg for the version with a plastic axle and 12 kg for versions with a steel axle. The roller tracks are available in lengths from 195 to 6,495 mm in 25 mm steps.

We are happy to provide you with prices above 50 m on request.

Item	Version/ rollers with	Order no.
K-R 28 K	Plastic axle	K-R28K
K-R 28 S	Steel axle	K-R28S
K-R 28 S-ESD	Steel axle	K-R28SESD



Roller track with yellow plastic rollers...



... conductive ESD version

Item	Length (mm)	Order no.
K-EH-0880	780	442518
K-EH-1080	980	442538
K-EH-1280	1,180	442558
K-EH-1350	1,250	442565
K-EH-1800	1,700	442610
K-EH-2200	2,100	442650
K-EH-2700	2,600	442700

## Label holder

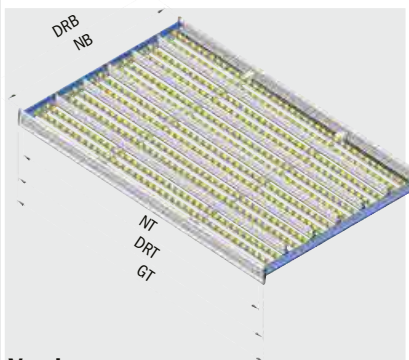
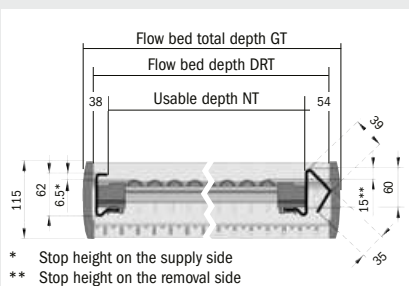
Self-adhesive plastic label holders, total height 33 mm (for label height 30 mm). Without label inserts.

Other versions available on request.



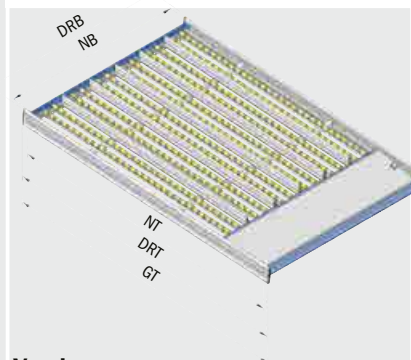
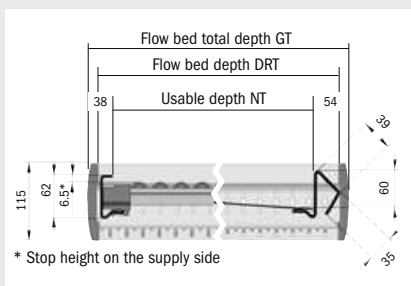
Order no. = on stock

# Flow beds with roller tracks and dividing rails – configuration examples



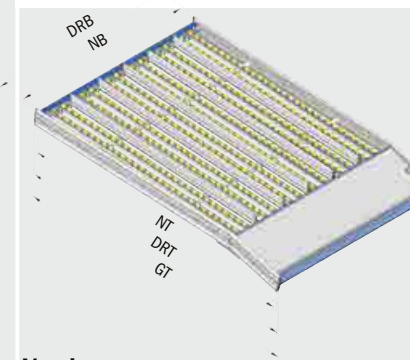
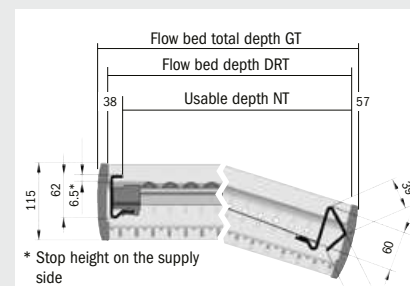
## Version Flat K-D

Equipped with 12 roller and 5 recessed dividing rails, including adjustment hooks.



## Version Flat/tilted K-DGK

Equipped with 12 roller and 5 recessed dividing rails, including adjustment hooks.



## Version Tilted K-DK (10° – 16°)

Equipped with 12 roller and 5 recessed dividing rails, including adjustment hooks.

## Various areas of use for KDR – application examples

### The advantages of live storage shelving:

- ▶ Rapid order picking by shortening the access paths, organized, clear, more compact storage, increased automation and reduction of movement paths by 85%.
- ▶ Larger storage capacity in the same area by eliminating shelving aisles.
- ▶ No out-of-date goods thanks to the first-in-first-out principle (FIFO). The stored goods always roll automatically to the removal side on roller tracks that act as rails.
- ▶ Fewer order picking mistakes due to compact product overview.
- ▶ Clear separation of supply and removal procedures; order picking is never interrupted by supply activities.
- ▶ Short, ergonomic access paths.
- ▶ Easy connection to conveying and handling technology.
- ▶ Easy handling due to the use of rollers.









# Box and pallet conveyor technology

In the face of growing demands from Industry 4.0, digitization, and internet shopping, high-capacity intralogistics are a must. With efficient processes and a bespoke degree of automation, you can master all challenges posed by a changing business landscape. Yet some operators also wish to retain an element of flexibility too. For these customers, semi-automation is the key to an efficient installation. SSI SCHAEFER offers solutions for gradual automation that grow in line with the customer's needs.

For example, cost-intensive picking processes can be significantly

improved and accelerated through semi-automated solutions such as vertical lift modules. This results in more efficient processes, greater productivity, lower costs, and shorter delivery times.

Semi-automated storage systems, such as mobile racking and channel storage systems, achieve operational efficiencies by automating individual work steps and allowing the available space to be utilized in the most effective manner. Depending on the selected load carrier and the necessary speed, the storage density can be increased further or rack costs

can be reduced. Appropriate software products with transparent monitoring and control functions can cover all logistical requirements and ensure the systems are perfectly integrated into the overall intralogistics landscape.

For SMEs and major corporations alike, these are decisive factors in maintaining and enhancing their market position. SSI SCHAEFER is one of the few specialists capable of adapting solutions to meet your exact needs – and with everything supplied from a single source.





**SSI LOGIMAT® Vertical Lift Module** page H2



**SSI ORBITER®** page H8



**Mobile Racking Systems** page H12



# SSI LOGIMAT®

## Vertical Lift Module



**The dynamic solution for the storage and picking of small parts.**

The Vertical Lift Module, with its numerous basic functions and unique additional options, not only significantly improves the performance of warehouse processes, but also ensures the ergonomic and safe operation of the warehouse. As an autonomous system or as a module integrated into an automated application – the SSI LOGIMAT is characterized by its universal usability.





- ▶ **Highly convenient** goods-to-person principle
- ▶ **Compact design** has economic and environmental advantages
- ▶ **Travel times reduced** by more than **70 %**
- ▶ Compared with static solutions, the Vertical Lift Module requires up to **90 % less warehouse space**
- ▶ Automated processes and ergonomic design **improve performance** by over **20 %**



**The SSI LOGIMAT offers numerous basic functions as standard and impresses as a high-performance storage and picking system.**

Thanks to its scalable concept, the scope of functions of the SSI LOGIMAT can be tailored precisely to the individual customer requirements. To implement the standard design, SSI SCHAEFER offers numerous options that expand the functions in terms of ergonomics, performance, and flexibility.

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix



#### Exclusively from SSI SCHAEFER

- ▶ **LogiTilt** tilting mechanism of the tray for ergonomic retrieval of goods and reduced reaching depth
- ▶ **Touch user interface** with intuitive navigation
- ▶ For maximum utilization of the storage space, the **LMB** bin series of sorting accessories is optimized for a tray depth of 800 mm
- ▶ Innovative **tray design** with a focus on space and weight optimization

#### Compact

- ▶ Maximum use of the available height
- ▶ Visual, automated filling rate display
- ▶ Defragmentation and relocalization of the stored trays
- ▶ Stock addition sequence with fixed height for highly concentrated storage
- ▶ Stock addition sequence with intelligent height optimization (IHO)
- ▶ Storage of trays in 25 mm increments

#### Safe

- ▶ Automated monitoring of the storage bins ensures that the goods to be stored are within the permitted dimensions both horizontally and vertically
- ▶ Vertical shaft monitoring for checking possible tray protrusions before the elevator approaches to prevent unintentional access during storage or retrieval
- ▶ Predefined access rights to trays and functions
- ▶ Programmable logic controller (PLC)

#### Robust

- ▶ Modular design with standard components
- ▶ Low-maintenance system thanks to high-quality components and robust design
- ▶ Range of drive options for different requirements
- ▶ Elevator with a low-maintenance gear drive

#### Ergonomic

- ▶ Visual indication of the storage position by a laser pointer
- ▶ Continuous confirmation light barrier under the operating opening to optimize picking performance
- ▶ Up to four operating openings per Vertical Lift Module in any position
- ▶ The height of the tray output can be adapted to the height of the employee

# Standard meets individuality

The SSI LOGIMAT comes in a wide selection of standard model widths and depths.

Technical Data		
Usable tray dimensions (mm)	A width (mm) incl. paneling	B depth (mm) incl. paneling
1,825 x 625	2,370	2,712
1,825 x 815	2,370	3,092
2,025 x 625	2,570	2,712
2,025 x 815	2,570	3,092
2,425 x 625	2,970	2,712
2,425 x 815	2,970	3,092
2,825 x 625	3,370	2,712
2,825 x 815	3,370	3,092
3,025 x 625	3,570	2,712
3,025 x 815	3,570	3,092
3,225 x 625	3,770	2,712
3,225 x 815	3,770	3,092
3,625 x 625	4,170	2,712
3,625 x 815	4,170	3,092
4,025 x 625	4,570	2,712
4,025 x 815	4,570	3,092

- Minimum height:

2,450 mm
- Maximum height:

up to 23,850 mm  
in 100 mm increments
- Tray load capacity:

up to 700 kg
- Machine load capacity:

up to 60 tons  
in standard design  
(higher load capacity available upon request)



RAL 5014 (Pigeon blue)	RAL 9010 (Pure white)	RAL 7024 (Graphite grey)	RAL 7035 (Light grey)
Other colors available on request. Color deviations may occur due to monitor or printer settings.			

Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix



## Control & Software

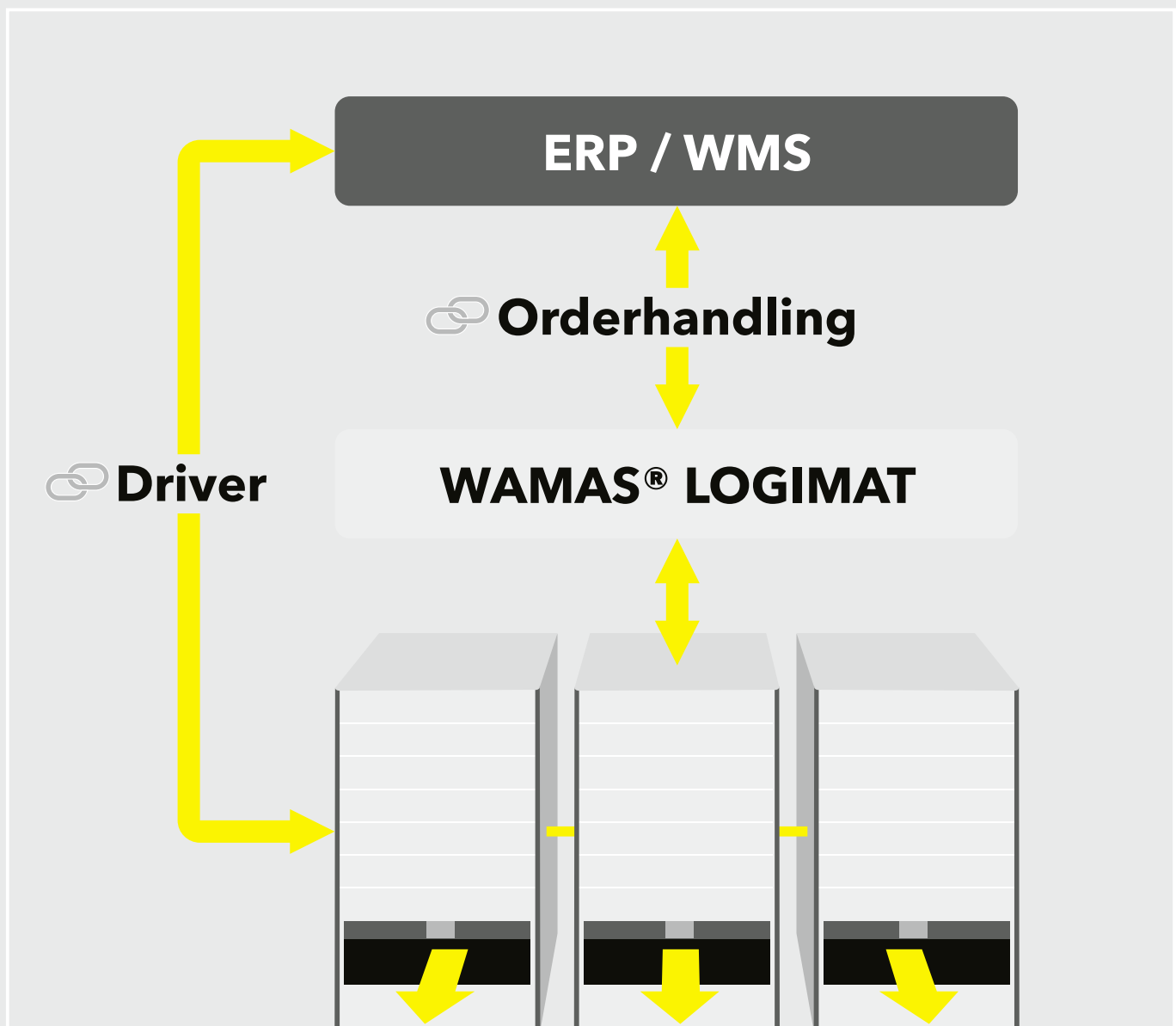
### From simple applications to complex warehouse management

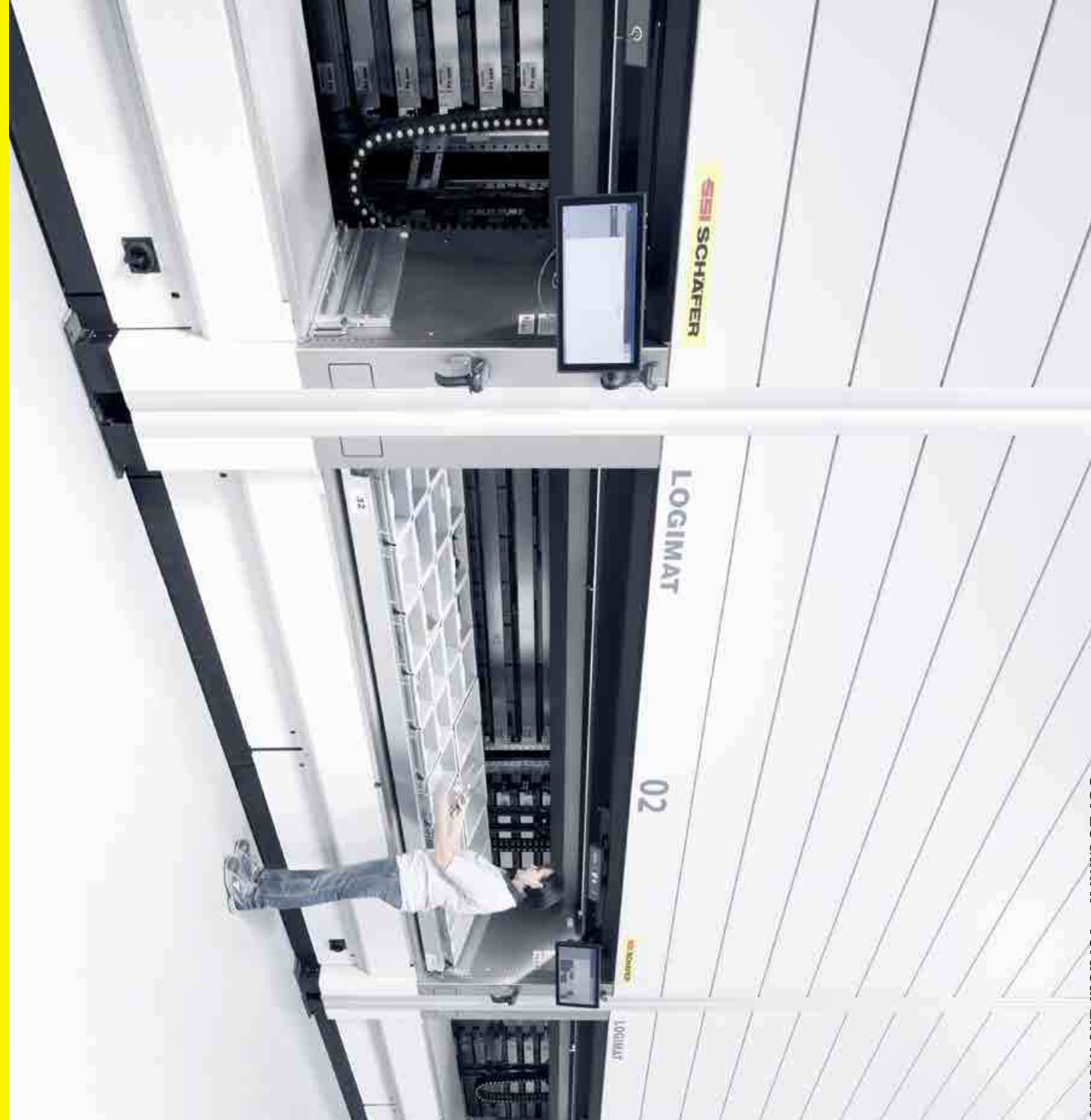
The SSI LOGIMAT Vertical Lift Module is equipped with a standard controller (PLC). To connect the Vertical Lift Module to the customer's WMS or ERP system, there is a choice of the required interfaces and proprietary WAMAS® LOGIMAT software.

This means every project is based on a straightforward and reliable solution that can be individually tailored to the requirements of your logistical business processes with simple upgrades. Operation is easy with a self-explanatory touch panel user interface.

### Your Benefits

- ▶ **Streamlined warehouse processes** for picking and replenishment
- ▶ **No unnecessary actions**
- ▶ **Simple integration** into existing processes
- ▶ **Minimization of errors**
- ▶ **Scalability**
- ▶ **Intuitive user interface** with touch panel





Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systemes

Appendix

## SSI ORBITER®

### Maximum performance in channel storage systems

Increasing order numbers and the associated need for efficient storage options for pallets of varying depths requires flexible, space-saving systems. The changing market requirements demand the top to bottom optimization of entire storage volume – while at the same time achieving a high level of efficiency and cost-effectiveness.

Channel storage systems concentrate on maximizing the use of space while keeping operating costs low. Thanks to the compacted storage, they use the available space perfectly.

This technology is particularly well suited to handling large amounts of items with low diversity, such as in the food and beverage industry or in temperature-controlled environments that require a lot of power.

With the SSI Orbiter, SSI SCHAEFER has both semi-automatic and fully-automatic systems to achieve greater availability, service quality and supply capability, in addition to efficient utilization of space.





## Your Benefits

### ► Performance

Parallel work steps create high picking performance

### ► Scalability

If the stock turnover needs to be increased later, adding additional channel vehicles is simple and straightforward

### ► Availability

Using multiple channel vehicles ensures the optimum utilization of the system

### ► Cost and energy efficiency

The high level of space utilization minimizes operating costs. The high storage density creates maximum energy efficiency

### ► Durability and safety

Work is only carried out at the ends of the channels

## Channel storage system: A space-saving miracle

Channel storage systems enable compact storage. Several storage units are included one after the other in channels. The operation of the system is carried out by channel vehicles. Only the loading unit at the very front of each channel can be accessed. For this reason, this system is most suited to large volumes with low item diversity. The channels are therefore usually filled with a single item.

## The optimal solution

In semi-automatic applications, when connected to a docking station, the innovative SSI Orbiter offers optimal utilization of space alongside extremely high flexibility, maximum personal safety, sustainability, and ease of use in the channel storage system. It also enables vastly improved pallet handling efficiency.

### Safe

- The docking station remains at the front of the channel, restricting access to the channel
- Safe transport in the warehouse – the SSI Orbiter locks onto the docking station when transferring between channels
- Maximum safety in the warehouse thanks to the integrated Safety PLC

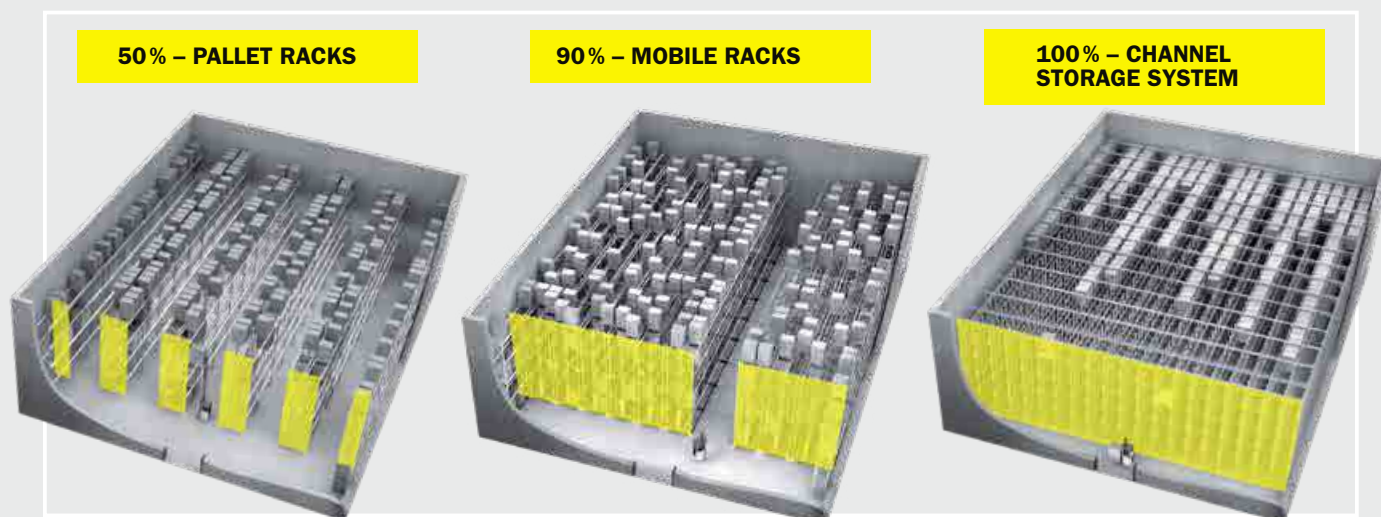
### Flexible

- Mixed LIFO/FILO operation possible within the same warehouse
- Various pallet types can be handled
- Can be implemented as either a semi-automated or fully automated system
- Suitable for use in earthquake-prone areas
- Suitable for use in deep-freeze environments

### User-Friendly and efficient

- Simple and fast insertion into a rack thanks to precisely measured entry tolerances
- User-friendly operation thanks to pictograms on the remote control
- Parallel use of multiple SSI Orbiter creates maximum efficiency

## Compact. More compact. Channel storage system.



## SSI ORBITER®: How it works

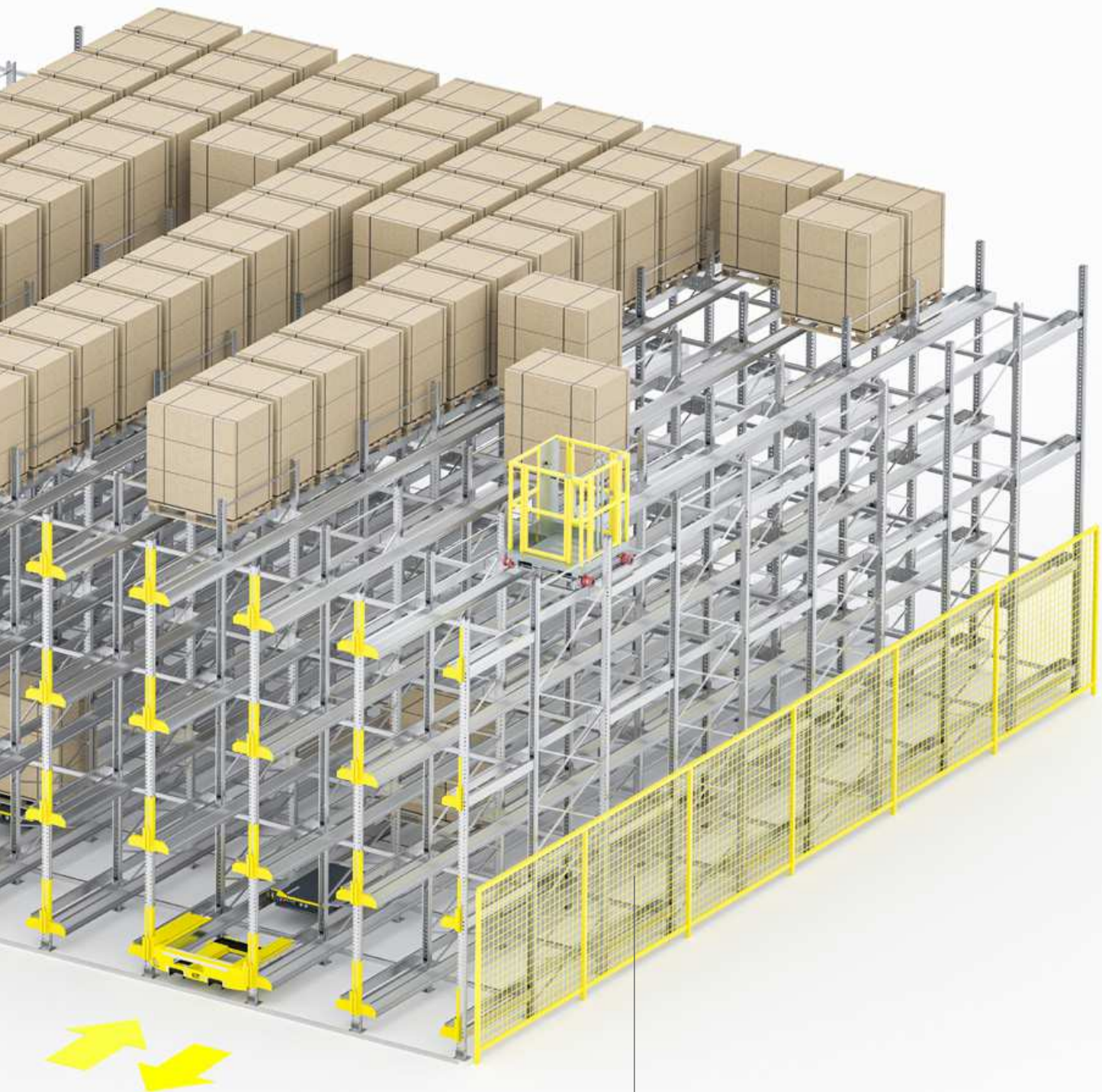


**1.** Bin stackers pick up the docking station and the SSI Orbiter and insert it into the centering console of the required rack channel. The channel storage system is fully functional even with just one SSI Orbiter.



**2.** The pallets to be loaded are picked up by the bin stacker and placed on the SSI Orbiter.





**3.** Movement commands are transmitted to the channel vehicle using a wireless remote control. The SSI Orbiter collects the pallets with a small lift and transports it to the next available storage location in the channel.

**4.** After unloading the pallets, the SSI Orbiter automatically returns to the docking station. The functional unit consisting of docking station and SSI Orbiter can be used in a different channel straight away.

**5.** Components such as retrieval platforms and safety fences guarantee the highest level of personal safety.

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# Mobile Racking Systems: More storage on less space



Our mobile racking systems not only let you optimize your space requirements, but also free up additional room. The systems offer a maximum amount of flexibility with respect to size and quality of your stored goods, which may vary from

extremely large and heavy goods to documents, apparel, small parts, spare parts, tires, or tools.

Our solutions feature the highest quality, various combinations, and an extensive number of adjustment

options. A modular concept provides the capability of assembling the system according to customized requirements.

**i** **Changed frame depth in 2021**  
for **Mobile Racking Systems**  
from 1,050 mm to **1,100 mm**



### Your Benefits

- Increased **warehouse capacity** up to 90%
- **Space savings** of up to 45%
- **High efficiency** and **durability**
- Possible combinations with **conveying system** and **automated guided vehicles**

## Efficient space utilization for optimum warehouse logistics

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### Pallet racks in conventional arrangement



#### Logistical data in comparison

Total storage area	625 m <sup>2</sup>
Of which rack area	223 m <sup>2</sup>
Proportion of aisle area	402 m <sup>2</sup>
Floor space utilization	36 %
Pallet locations	1,152
Area loss	64 %

### Mobile racks for optimized use of space



#### Logistical data in comparison

Total storage area	353 m <sup>2</sup>
Of which rack area	223 m <sup>2</sup>
Proportion of aisle area	130 m <sup>2</sup>
Floor space utilization	63 %
Pallet locations	1,152
Area gained	44 %

### Mobile racks for the requirement of higher storage capacity



#### Logistical data in comparison

Total storage area	625 m <sup>2</sup>
Of which rack area	463 m <sup>2</sup>
Proportion of aisle area	162 m <sup>2</sup>
Floor space utilization	74 %
Pallet locations	2,304
Capacity gains	100 %

## Flexible Rack Systems for large and heavy warehouse goods

Heavy load modular shelving systems for pallets and oversized goods are designed for the most demanding weight and size requirements of the goods to be stored. The modular construction also allows customized solutions.

### **Suitable for Use in Cold Storage Environment**

Our rack systems, our competence in conveyor technology, and our powerful electric motors combined make our systems the number one choice for use in cold storage warehouses.

### **Safe Work Environment**

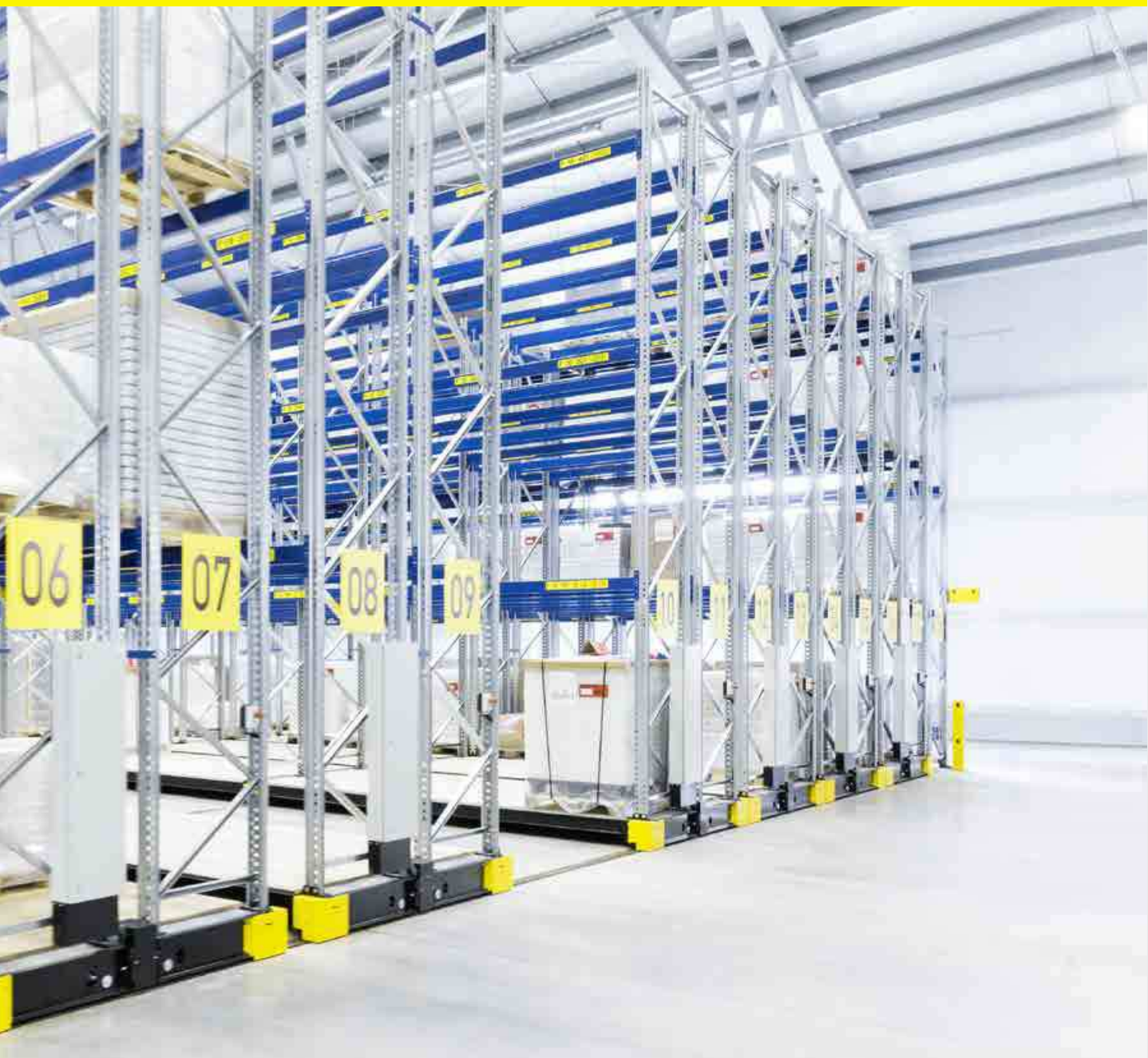
The pallet mobile rack systems are equipped with emergency-stop buttons, photoelectric access barriers, manual release systems, proximity sensors as well as photoelectric safety barriers. All of these features ensure that our solutions contribute significantly to the smooth and safe working environment in your warehouse.





### Your Benefits

- ▶ Increased **warehouse capacity** up to 90%
- ▶ **Space savings** of up to 45%
- ▶ Reduced operating and real estate costs as a result of **excellent system space utilization** (surface area utilization of up to 80%)
- ▶ Maximum **storage density**
- ▶ Increased **energy efficiency**
- ▶ **Direct access** to pallet locations prevents unnecessary and time-intensive relocation
- ▶ **High throughput**
- ▶ Option to connect to the **warehouse management system**
- ▶ **Earthquake-proof design**

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# Mobile Racks for light and medium-weight loads

Whether documents, clothing, small parts, spare parts, tools, or other light to medium rack loads – with its mobile racks, SSI SCHAEFER offers the ideal warehouse solution for light-weight to medium-weight loads.

## Innovative Technologies:

Depending on the stored goods and requirements, our mobile racks are offered with the following features:

- ▶ Crank drive for rail systems: Because the rails are anchored in the floor, this type is also suitable for high and narrow construction.
- ▶ Crank drive for non-rail systems: Because the existing floor does not need to be modified when installing this system type, the non-rail solution can be easily installed on almost all existing surfaces and is also ideally suited for special floors or heated floors.
- ▶ Electric drive and RFID technology: With this option, we combine the versatility of the mobile rack with the benefits of modern RFID technology. The result is a rack system that can be operated safely and easily and is suitable for a wide range of applications in the office, workshop, or archive areas.

## Your Benefits

- ▶ **Space gain:** 40 % less space than stationary rack lines or space for 85 % more storage volume on the same surface area
- ▶ **Optimized space requirements,** additional space on the free surface
- ▶ **Optimized and reduced transit times** in internal workflows
- ▶ **Higher efficiency** due to fewer rack aisles
- ▶ **Three different designs**
- ▶ **Highest quality**
- ▶ **High flexibility** with modular expansion options and different combinations



### Your Benefits

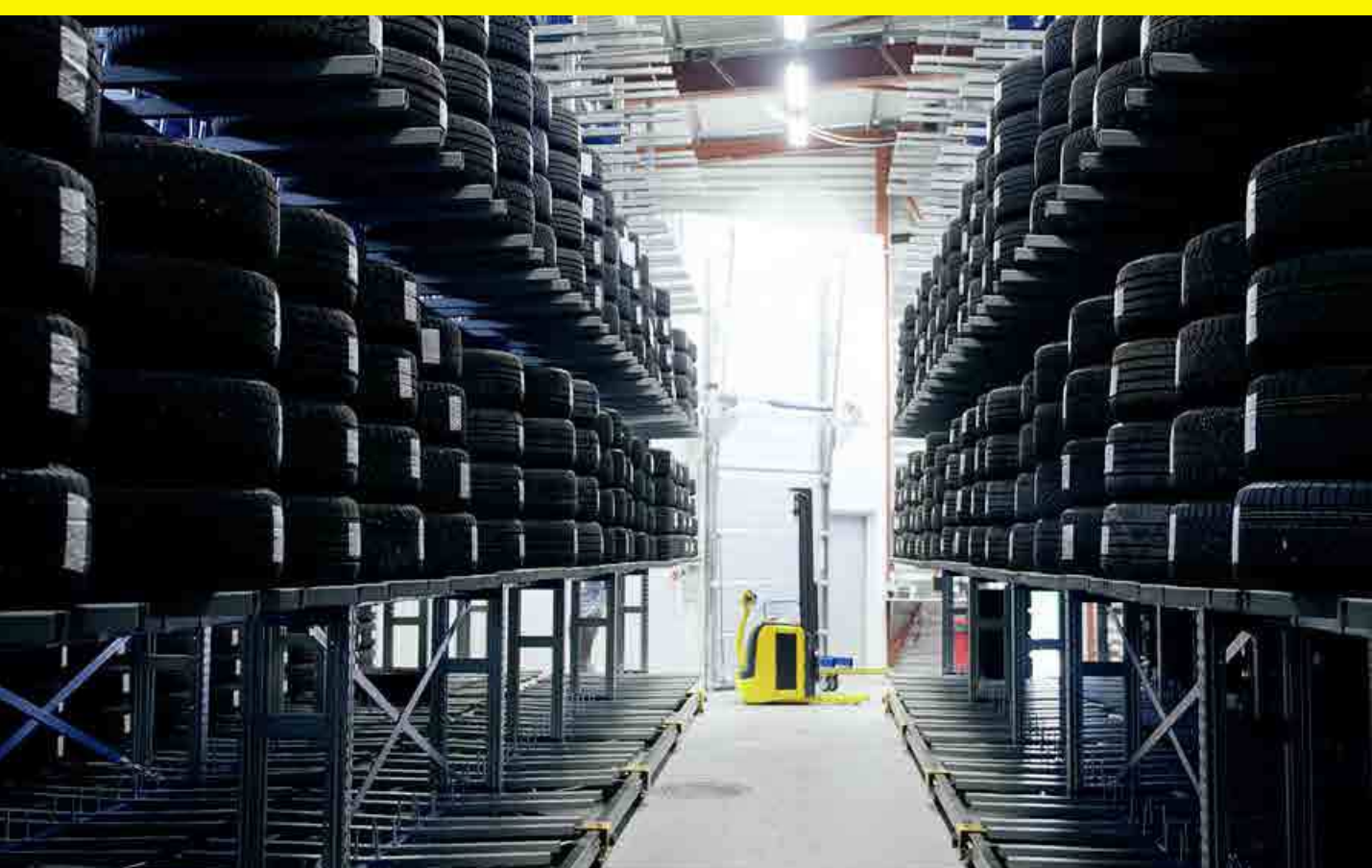
- ▶ Almost **twice** the **warehouse capacity** as static warehouse solution on the same area
- ▶ All **wheel and tire sizes up to 800 mm diameter** can be stored
- ▶ **Compliance with all applicable health regulations**, because the wheels, some of which might be difficult to install, do not need to be manually lifted by one person
- ▶ Thanks to carriers that can drive underneath the rack, the wheel stacks can be **quickly and safely stored in and out** from the ground using a forklift
- ▶ **Reduced operating and real estate costs** as a result of excellent system space utilization
- ▶ Equipped with state-of-the-art **PLC control unit**
- ▶ **Carrier loads up to 50 t, carrier length up to 25 m**
- ▶ **Modular expansion option**
- ▶ High **flexibility, quality** and **durability**
- ▶ Different **combinations**
- ▶ **Comprehensive expertise**

## Mobile Rack EMX for tire storage

A tire warehouse is only efficient if it is well adapted to the local conditions. Benefit from our space saving, flexible, and safe EMX mobile rack system.

Our mobile rack systems for tires and wheels include conventional tire or cantilever racks mounted on carriages and moved parallel to each other using a motorized drive. As the rack is moved along rails, only the aisle needed is opened.

This solution ensures maximum economic efficiency because of the reduced space requirement in the workshop or in the warehouse.

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## Small details and the big picture: the advantages of a corporate group

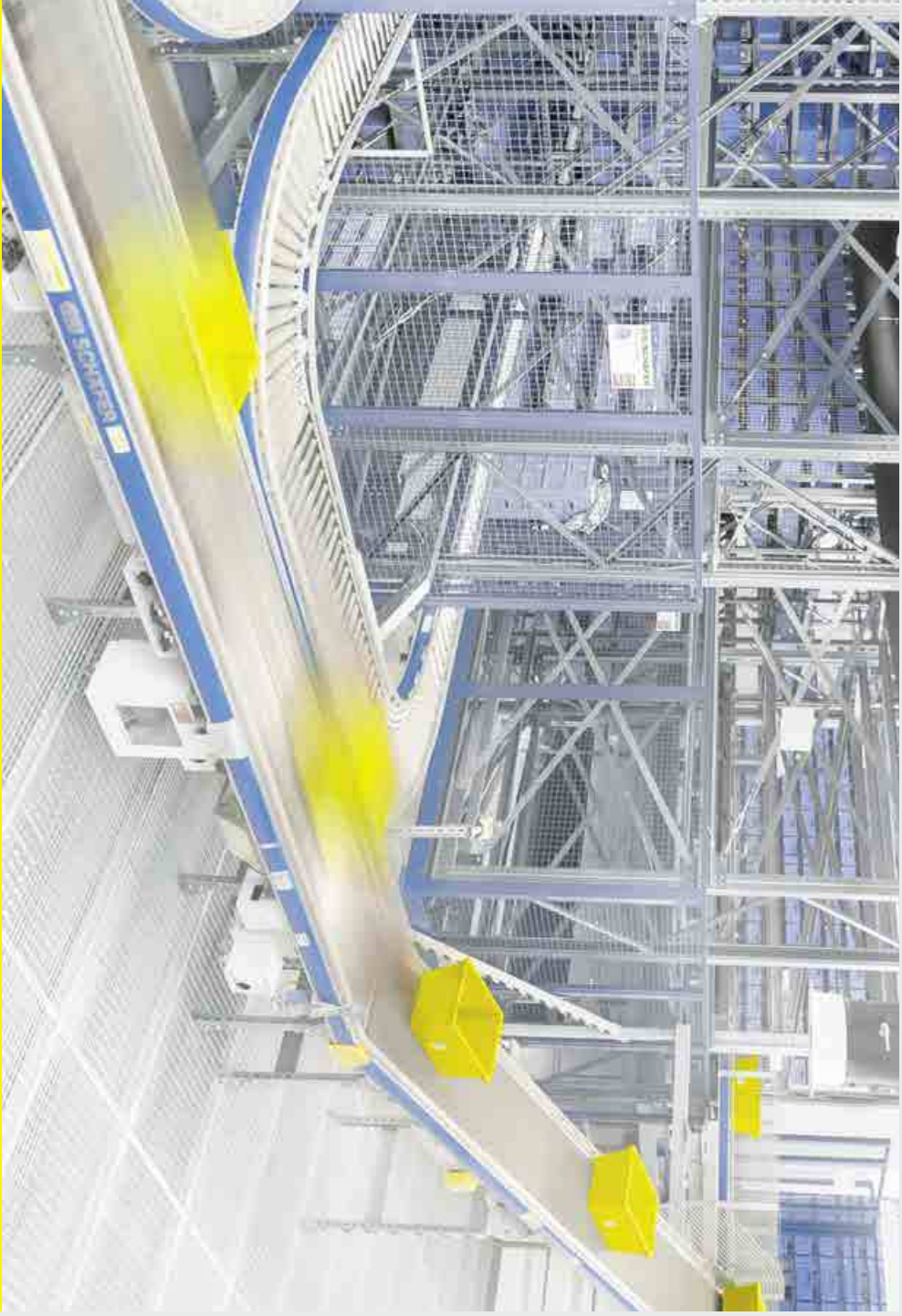


As a leading global expert, SSI SCHAEFER plans, designs and implements projects sustainably and successfully. With a comprehensive range of market-driven products, we generate individually tailored logistics solutions.

In doing so, we safeguard the efficiency, optimization and economy of our customers' specific business processes. Furthermore, our integrated systems offer extensive flexibility, forming a foundation for scalable and state-of-the-art solutions. These range from individual systems to complex facilities. Our automated systems are intended for both global players and mid-size customers.

We offer precisely the right intralogistics solution for every need. The SSI SCHAEFER Group's support, expertise, synergies and innovative power are impressive. SSI SCHAEFER delivers complete solutions from a single source, reliability and availability of the systems together with rapid project completion, in particular when serving as a general contractor. We also offer our customers a reliable long-term investment.

Products planned, developed, manufactured and installed by SSI SCHAEFER form the foundation for these logistics solutions. This enables considerable flexibility at every level of detail and in every phase of the project, enabling customer-oriented solutions to be installed anywhere in the world.



Boxes /  
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## More IQ for your intralogistics

Intralogistics processes are becoming ever more complex. In manual, automated and fully automated warehouses, countless processes need to be monitored, visualized and optimized. This requires expertise. As the world's leading provider of logistics systems, SSI SCHAEFER not only offers everything for your warehousing but also provides the concentrated IT expertise that only the industry leader can provide.

With more than 1,100 highly trained IT experts, we create an individual IT solution that – based on our WAMAS® standard solution – precisely suits your intralogistic needs, regardless of the size of your warehouse. If necessary, we also provide you with support as certified SAP partner. In doing so, we understand the processes involved in your industry and provide excellent implementation, optimization and training services.

### Your advantages:

- ▶ A modular system for all areas
- ▶ Proprietary developed WAMAS® logistics software
- ▶ Certified SAP expertise
- ▶ Innovative KPI analysis for optimized processes
- ▶ Dashboards for real-time data visualization
- ▶ Consulting, implementation, support and training
- ▶ Global service network with more than 70 locations
- ▶ 24/7-support and flexible service contracts

**Technological excellence and global market presence make us the most attractive software partner by your side when it comes to intralogistics.**







## Modular, flexible, transparent: our complete software solution for warehousing

With WAMAS® and SAP, SSI SCHAEFER offers software technologies and scalable solutions for more flexibility and sustainable efficiency throughout your business – to meet the intralogistics challenges of tomorrow.

### **WAMAS® – SSI SCHAEFER logistics software**

Our in-house, standardized logistics software WAMAS combines all your intralogistics components into one intelligent system.

WAMAS is a modular solution which seamlessly integrates into existing SSI SCHAEFER intralogistics and into other intralogistics landscapes. It is also customizable using a wide range of options for controlling manual and automated logistics centers and comes with open interfaces for a smooth communication with your company-specific ERP system. From incoming goods through storage and picking to delivery, WAMAS is the strong link in your logistics chain.

### **Certified SAP expertise**

As a certified SAP partner we also help you to select, implement and operate SAP Extended Warehouse Management (EWM). You benefit from an experienced implementation partner with extensive IT expertise and from a proven solution that provides maximum functionality along with comprehensive process support throughout your warehouse.

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**Manual systems for  
small load carriers**

**Semi- and fully automated  
small parts warehouses**

**Manual and semi-automated systems  
for large load carriers**

**Fully automated solutions  
for large load carriers**



## Excellence in warehouse logistics

Future-proof logistics solutions should integrate seamlessly into your individual processes, be upgradeable, and adapt flexibly to new conditions. Especially in storage modular solution components are key, which SSI SCHAEFER tailors to your individual requirements.

### **Cost-effective and efficient storage**

The goal of effective storing is to be able to maximize available storage space, preferably at minimum cost. One of the key requirements is, that a large portion of the stored goods can quickly be available at any time. Our systems allow you to maximize the existing space and provide you with almost unlimited design options.

We offer efficiency-enhancing warehouse systems from a single source: From pallet racks, container systems, rack and storage platforms to small parts storage systems, dynamic storage retrieval machines and shuttle systems.







## Targeted optimization of warehouse processes – with modular solutions from manual to semi- and fully automated systems

### Your advantages:

- ▶ Complete solutions from a single source
- ▶ Modular and scalable systems
- ▶ Wide range of systems, from manual to semi- and fully automated
- ▶ High-performance and modular software solutions
- ▶ High cost-effectiveness thanks to efficient solutions
- ▶ Many years of experience and comprehensive expertise
- ▶ Extensive service portfolio

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**Overhead conveying systems**

**Conveying systems for large load carriers**

**Conveying systems for small load carriers**

**Automated guided vehicle systems**

## Smart conveyors

Future-proof logistics solutions should integrate seamlessly into your individual processes, be upgradeable, and flexibly adaptable. Our broad range of products and solutions is the foundation for individually designed and custom solutions.

### **Efficient shipping and conveying**

Deciding factors in finding the ideal transport solution are grouped items, required throughput, and desired load carriers. They set the parameters for the required system components.

From transporting goods with conveying systems for hanging small or large load carriers to using automated guided vehicle systems, we offer a wide range of products. Combined with our conveyor system connections, we offer a complete package for scalable solutions.

Exceptional quality and compatibility of our components guarantee that the entire system runs smoothly, ensuring optimum security of your investment.







## Modular transport solutions for any load carrier to optimize material flows

### Your advantages:

- ▶ Increased profitability and efficiency of the internal material flow
- ▶ Wide range of solutions for any load carrier
- ▶ Complete solutions from a single source
- ▶ All-around service ensuring a long system life-cycle
- ▶ Modular, scalable transport solutions for a variety of requirements
- ▶ Long-term productivity thanks to our reliable, high-quality components


Boxes /  
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Pallet  
racking

Cantilever  
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Mezzanines /  
platforms

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Semi-automated  
solutions

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**Manual picking**

**Work stations/ergonomics@work!®**

**Automatic picking**

**Paper and bin handling**

**Product Identification**

## Perfect flow

Efficient picking and seamless order processing are essential components of intralogistics. With modular picking and handling systems, SSI SCHAEFER designs precisely tailored solutions to fit your needs, from manual to semi- or fully automated systems.

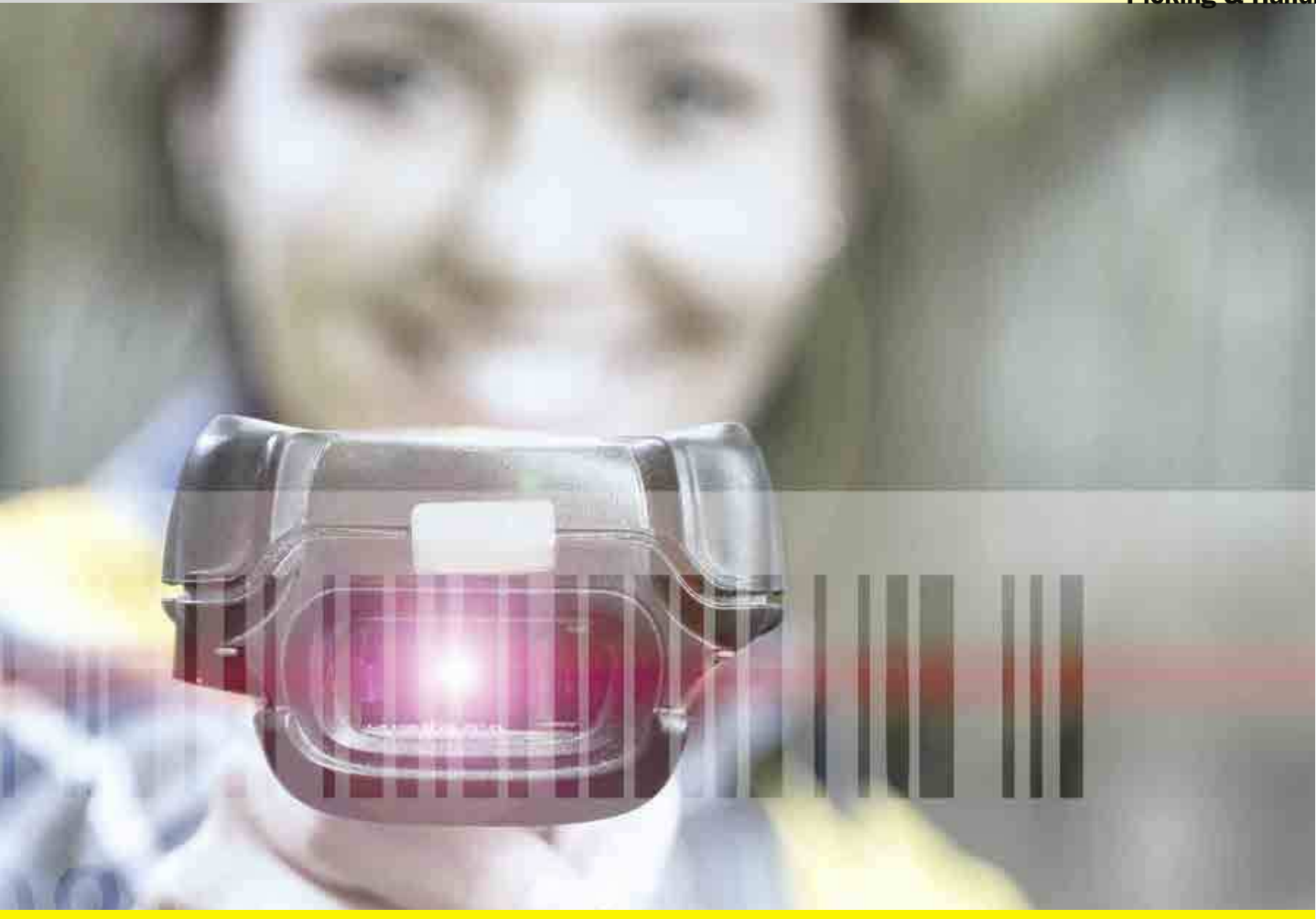
### **Economical and efficient**

Increased picking speed, lower error rate, simple and ergonomic operation, low maintenance and reliable technology – these are the main goals of efficient picking and handling systems.

We provide everything you need: from the hardware to the software to a fully developed after-sales concept. Our picking and handling systems offer superior quality, modular mix and match design, and ultimate flexibility.







## Systems and solutions for error-free processes and efficient material flows

### Your advantages:

- ▶ Modular and scalable systems
- ▶ A comprehensive range of system solutions from manual to fully automated
- ▶ Increased picking speed and minimized error rates
- ▶ Ergonomic design
- ▶ Efficient order processing resulting in considerable time savings
- ▶ Low-maintenance and reliable technology

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# High bay racking and silo systems



High bay racking systems for IT-controlled storage systems: We construct high bay pallet warehouses and automated mini-load warehouses for you as well as special storage facilities designed for installation in walls or as silo constructions capable of supporting roofs and walls.

Every step of the process from the design to the static calculations, engineering and construction at the in-house production facilities is planned and carried out by SSI SCHAEFER.

There is a major difference between warehousing systems installed in existing halls and silo facilities: with the silo design, the rack itself serves as the supporting structure for the roof and sides. This eliminates the need to construct a separate hall.

The numerous benefits of silo constructions: shorter construction times, savings on foundations, building facilities, roof and facade area along with various attractive tax write-off options. The higher the racking system, the more attractive the implementation is a compact silo variant. The optimum design for your needs depends on diverse parameters. This is why the solution requires an individual analysis. We are happy to serve as your contact and support.







## Green Logistics



SSI SCHAEFER has long been a leading company identified by its environmentally friendly production processes. We are aware of our responsibility and that is why we strive to achieve the highest level of environmental compatibility when developing, manufacturing and disposing of our products. In addition to fundamental measures to increase energy efficiency, such as lightweight construction, energy-efficient drive systems and concepts for energy recovery, we are increasingly committed to minimizing the energy requirements of storage and retrieval machines in line with green logistics. This is achieved by compensating the dead weight of the lifting equipment with the use of counterweights.

The topics of environmental protection and sustainability are given high priority in our corporate strategy and all economic processes. This is also reflected in our further product portfolio – e.g. in innovative control technology and in the design of ergonomically optimized work stations according to the keyword ergonomics@work!®.

SSI SCHAEFER has long maintained a strong focus on energy efficiency, safety and ergonomics. That is why the company participates in the "Blue Competence – Sustainability initiative for machinery and systems manufacturing" initiative launched by the VDMA.



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KDR shelving

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## Customer Service & Support 4.0: The future is now

Digitalization is not only revolutionizing production and logistics but also subsequent business processes such as service and support. SSI SCHAEFER offers you a broad portfolio of services, which utilize state-of-the-art technologies such as augmented support or data-supported prevention. You convert your processes to Industry 4.0 – we assist you with Customer Service & Support 4.0. Our Service Account Managers serve as your central contact person for all service inquiries and also compile your tailored service package.

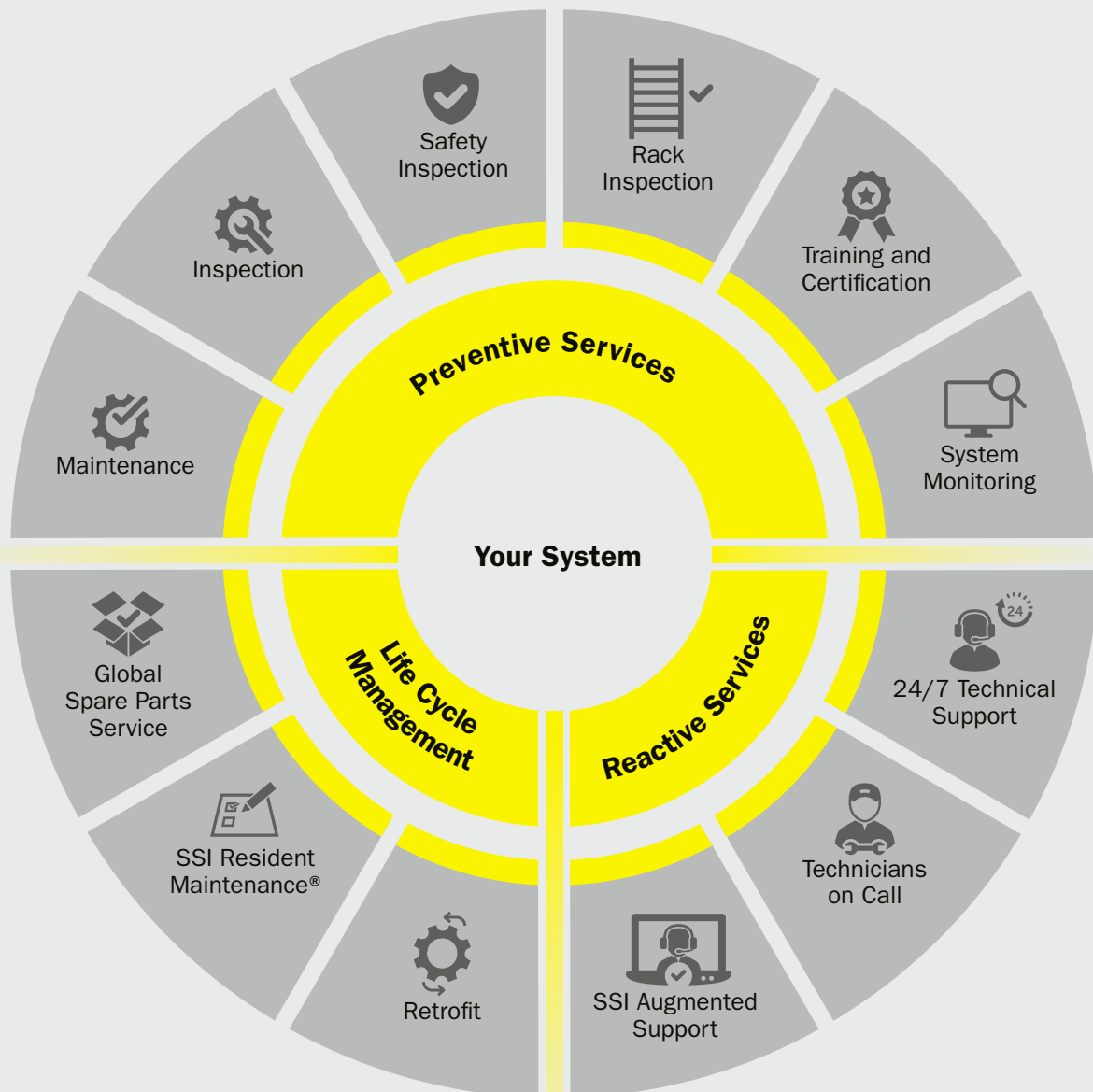
At SSI SCHAEFER, we understand that maximum availability and rapid reaction when service is required are critical to successfully operate a complex logistics system.

We are there for you and offer you competent support. We flexibly adapt our services to your needs and requirements – wherever and whenever you need them and for every scope.



**Preventive Services:**  
**Optimum system protection**

SSI SCHAEFER carries out maintenance activities, inspections, safety inspections and system monitoring with qualified technicians. We also offer comprehensive trainings for the correct handling and maintenance of your system.



**Life cycle management:**  
**Service life extension**

Extend the service life of your system with complete on-site service from our technicians, through modernization or expansion along with original spare parts from our web shop.

**Reactive Services:**  
**Rapid problem solving**

If a fault occurs with your equipment or system, SSI SCHAEFER is there to support you with innovative solutions up to 24 hours a day and 365 days a year.

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- ▶ Modular shelvings
- ▶ Pallet rackings
- ▶ Drive-in rackings
- ▶ Drive-through rackings
- ▶ Cantilever rackings
- ▶ Live storage shelvings
- ▶ On-line shelvings
- ▶ Mezzanines
- ▶ Mobile rackings
- ▶ Multi-tier facilities







# Modern, complete solutions for waste and recycling collection



Modern waste management systems need to be safe, reliable and durable.

Customers worldwide trust in SSI SCHAEFER's waste management and recycling expertise. The company offers sophisticated systems for both recycling materials and returning them to the economic cycle and effectively disposing of waste materials.

Working in collaboration with municipal and private waste management companies, SSI SCHAEFER has developed

a waste engineering program based on countless, successful applications. This solution is now utilized worldwide as the solution for waste management tasks.

SSI SCHAEFER creates the foundation for hygienic and convenient raw material recycling. In the process, the company ensures the more conscious and environmentally-friendly use of materials.

The effective collection systems offer solutions for the ecological and economical challenges of our time.







- Waste disposal
- Waste paper collection
- Glass collection
- Bio-waste collection
- LVP collection (light packaging materials)
- Industrial waste collection
- Hazardous waste collection
- Special and auxiliary equipment



Further information about waste management

on request



## NOTES

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# EQUIPPED FOR THE FUTURE

More and more customers around the world trust SSI SCHAEFER when it comes to the future and efficiency of their intralogistics. You receive system solutions tailored to your specific needs for today's requirements and the challenges of the future from a single supplier and with combined IT power. Developed by specialists from all over the world

[ssi-schaefer.com](http://ssi-schaefer.com)

*Think Tomorrow.*



**SSI SCHAEFER**

# SIX REASONS FOR CHOOSING SSI SCHAEFER

- **Stability**

As a financially independent family business, SSI SCHAEFER is committed to long-term solutions. You can trust that our team of experts will be there for you today, tomorrow and in years to come.

- **Efficiency**

SSI SCHAEFER solutions are scalable and able to grow with your business. You can always upgrade or retrofit.

- **Quality**

As a systems specialist and original equipment manufacturer, SSI SCHAEFER provides tailor-made and high-quality solutions from a single source,

specifically designed to meet your challenges.

- **Reliability**

Thanks to our worldwide Customer Service & Support network, SSI SCHAEFER ensures smooth operation of your system, both during and after installation.

- **Know-how**

SSI SCHAEFER solutions are always up-to-date with the latest technological standards and can be easily integrated into an existing (IT) landscape.

- **Internationality**

As a global organization, SSI SCHAEFER has local offices worldwide. With over 70 operative subsidiaries, our team of experts speak your language.

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