

# PALLET RACKING SYSTEMS

**2022**

Extract from general catalog

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**Chapter C**



**SSI SCHÄFER**



# 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.

**i** **Changed frame depth in 2021**  
for PR 600 from 1,050 mm to **1,100 mm**







**PR 600 longitudinal beam racking** page **C4**

**Accessories for pallet racking** page **C8**

**Safety accessories** page **C11**

**Storage and storage space labeling** page **C14**

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support



## Overview of pallet racking system

<b>Longitudinal beam rackings PR 600</b>	
Areas of use	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>▶ Light and economical</li> <li>▶ Sturdy due to special design</li> <li>▶ Highest dimensional accuracy</li> </ul>
Design	▶ 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
System hole pattern	▶ 50 : 50 mm
Upright profile widths	▶ 75, 90, 100, 120 mm
Frame load capacity	▶ Up to 30,000 kg
Beam load capacity	▶ Up to 4,500 kg per pair
Frame surface	▶ Galvanized
Beam surface	▶ Painted RAL 5010, Gentian Blue



from page

C4



**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

**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



Information regarding **inspection requirements**  
for rack systems

Chapter F, page F4



# 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

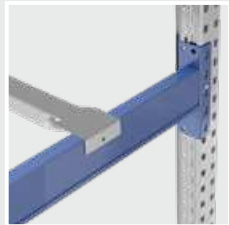
- ▶ **High load capacity**  
Frame load capacity of up to 30,000 kg (for min. 2 beam pairs INP 100 per rack bay and 5 rack bays per rack row), beam load capacity up to 4,500 kg per pair
- ▶ **Light and economical**
- ▶ **Sturdy due to special design**
- ▶ **High-quality materials**
- ▶ **Precise dimensional 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**



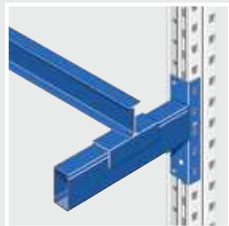
# Frames and longitudinal beams PR 600

Front-to-back supports

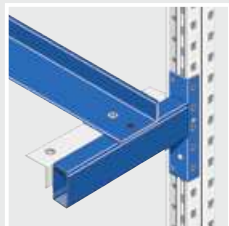
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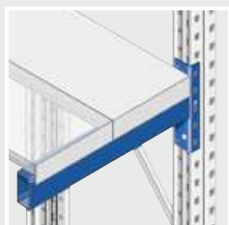
Front-to-back supports



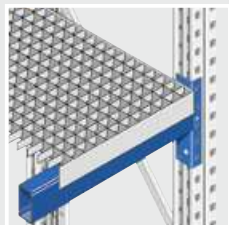
Fork spacer



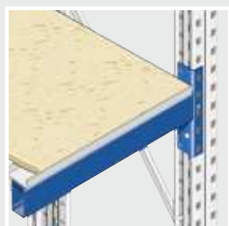
Front-to-back supports made of angled profile with locking bracket



Steel panels, attached



Mesh panels, attached



Chipboard with edge protection, attached

Mesh back panels

Page C12

Frame

Page C6

Front-to-back support from the angled profile

Page C8

End stops

Page C13

Fork spacers

Page C8

Load sign

Page C13

Steel panels on INP beam profile

Page C9

Chipboards attached

Page C10

Mesh panels on beam profile INP

Page C9

Corner protector

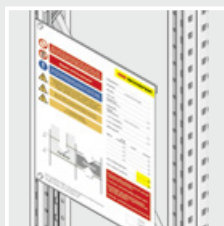
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Longitudinal beams

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Corner protector



Load sign

Modular shelving

Longspan racking

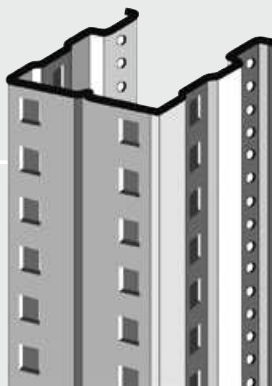
Pallet racking

Cantilever racking

On-line shelving / KDR shelving

Customer Service & Support

# PR 600 frame



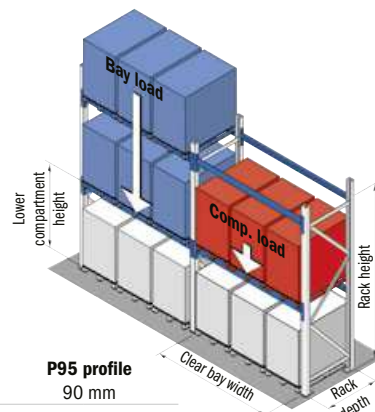
## ► Frame load capacity

The permissible frame load (or bay load) depends on the compartment height and the selected 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.

The load chart is based on DIN EN 15512:2020.

Compartment heights exceeding 2,500 mm require a separate static calculation.

If you have any questions please contact our technical consultants.



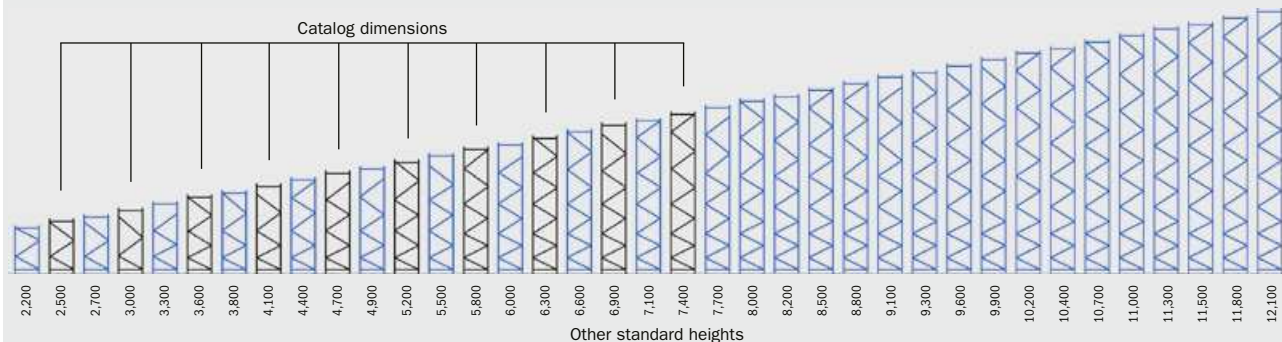
Support width	P73 profile 75 mm		P93 profile 90 mm		P95 profile 90 mm	
	Frame load capacity					
	Bay width		Bay width		Bay width	
Comp. height	2,700 mm	3,600 mm	2,700 mm	3,600 mm	2,700 mm	3,600 mm
750 mm	9,100 kg	8,750 kg	9,550 kg	9,650 kg	14,800 kg	13,700 kg
1,000 mm	7,900 kg	7,700 kg	9,250 kg	8,850 kg	13,400 kg	12,100 kg
1,250 mm	6,500 kg	6,450 kg	8,250 kg	8,000 kg	11,800 kg	11,150 kg
1,500 mm	6,650 kg	6,550 kg	8,050 kg	8,000 kg	11,350 kg	11,050 kg
1,750 mm	6,550 kg	6,050 kg	7,850 kg	9,750 kg	9,250 kg	10,800 kg
2,000 mm	5,350 kg	5,550 kg	7,550 kg	7,600 kg	9,450 kg	10,450 kg
2,250 mm	5,250 kg	5,200 kg	7,400 kg	7,600 kg	9,450 kg	10,350 kg
2,500 mm	5,000 kg	5,000 kg	6,600 kg	6,600 kg	9,250 kg	8,850 kg

## Other frame profiles

on request

## PR 600 accessories

from page C8



### 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 1,100 mm</b>			<b>Frame depth 1,250 mm</b>		
RV1-773-0250-085	2,500	307280	RV1-773-0250-110	2,500	6689986	RV1-773-0250-125	2,500	307760
RV1-773-0300-085	3,000	307290	RV1-773-0300-110	3,000	6690148	RV1-773-0300-125	3,000	307770
RV1-773-0360-085	3,600	307300	RV1-773-0360-110	3,600	6689987	RV1-773-0360-125	3,600	307780
RV1-773-0410-085	4,100	307310	RV1-773-0410-110	4,100	6690151	RV1-773-0410-125	4,100	307790
RV1-773-0470-085	4,700	307320	RV1-773-0470-110	4,700	6689988	RV1-773-0470-125	4,700	307800
RV1-773-0520-085	5,200	307330	RV1-773-0520-110	5,200	6690154	RV1-773-0520-125	5,200	307810

### P 93 profile

RV1-973-0250-085	2,500	307340	RV1-973-0250-110	2,500	6690180	RV1-973-0250-125	2,500	307820
RV1-973-0300-085	3,000	307350	RV1-973-0300-110	3,000	6690182	RV1-973-0300-125	3,000	307830
RV1-973-0360-085	3,600	307360	RV1-973-0360-110	3,600	6690184	RV1-973-0360-125	3,600	307840
RV1-973-0410-085	4,100	307370	RV1-973-0410-110	4,100	6690186	RV1-973-0410-125	4,100	307850
RV1-973-0470-085	4,700	307380	RV1-973-0470-110	4,700	6690188	RV1-973-0470-125	4,700	307860
RV1-973-0520-085	5,200	307390	RV1-973-0520-110	5,200	6690190	RV1-973-0520-125	5,200	307870
RV1-973-0580-085	5,800	307400	RV1-973-0580-110	5,800	6690192	RV1-973-0580-125	5,800	307880
RV1-973-0630-085	6,300	307410	RV1-973-0630-110	6,300	6690194	RV1-973-0630-125	6,300	307890
RV1-973-0690-085	6,900	307420	RV1-973-0690-110	6,900	6690196	RV1-973-0690-125	6,900	307900
RV1-973-0740-085	7,400	307430	RV1-973-0740-110	7,400	6690198	RV1-973-0740-125	7,400	307910

### P 95 profile

RV1-975-0360-085	3,600	307440	RV1-975-0360-110	3,600	6690221	RV1-975-0360-125	3,600	307920
RV1-975-0410-085	4,100	307450	RV1-975-0410-110	4,100	6690223	RV1-975-0410-125	4,100	307930
RV1-975-0470-085	4,700	307460	RV1-975-0470-110	4,700	6690225	RV1-975-0470-125	4,700	307940
RV1-975-0520-085	5,200	307470	RV1-975-0520-110	5,200	6690227	RV1-975-0520-125	5,200	307950
RV1-975-0580-085	5,800	307480	RV1-975-0580-110	5,800	6690229	RV1-975-0580-125	5,800	307960
RV1-975-0630-085	6,300	307490	RV1-975-0630-110	6,300	6690231	RV1-975-0630-125	6,300	307970
RV1-975-0690-085	6,900	307500	RV1-975-0690-110	6,900	6690233	RV1-975-0690-125	6,900	307980
RV1-975-0740-085	7,400	307510	RV1-975-0740-110	7,400	6690235	RV1-975-0740-125	7,400	307990

Order no. = on stock



GALVANIZED

Support profiles



GENTIAN BLUE

Longitudinal beams



RAL 5010

# 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.

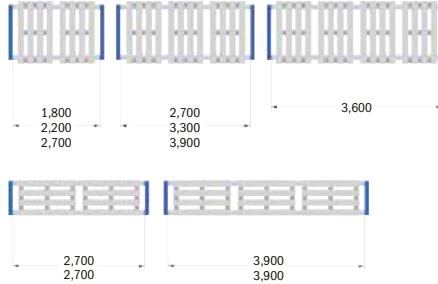
## Longitudinal beam rack system dimensions

### Storage in depth direction

Pallet dimensions	Insertion depth	Rack depth
800 x 1,200 mm	1,200 mm	1,100 mm
1,000 x 1,200 mm	1,200 mm	1,100 mm
1,200 x 1,200 mm	1,200 mm	1,100 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	1,100 mm



## Compatible with WR 600 longspan racking systems

Chapter B, from page B1

### 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 1,900 mm</b>				<b>Length 2,200 mm</b>				<b>Length 2,700 mm</b>			
TRV1-190-08-I	2,800	INP 80	321510	TRV1-220-08-I	2,500	INP 80	321540	TRV1-270-08-I	2,100	INP 80	321590
TRV1-190-10-I	4,500	INP 100	321670	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 1,900 mm</b>				<b>Length 2,200 mm</b>				<b>Length 2,700 mm</b>			
TRV1-190-084-30 CE	2,700	CE 80/40	334300	TRV1-220-084-30 CE	2,200	CE 80/40	334330	TRV1-270-084-30 CE	1,500	CE 80/40	334380
TRV1-190-104-30 CE	3,600	CE 100/40	334670*	TRV1-220-104-30 CE	3,150	CE 100/40	334700*	TRV1-270-104-30 CE	2,500	CE 100/40	334750*
TRV1-190-114-30 CE	4,000	CE 110/40	335040	TRV1-220-114-30 CE	3,550	CE 110/40	335070	TRV1-270-114-30 CE	3,000	CE 110/40	335120
								TRV1-270-124-30 CE	3,300	CE 120/40	335490*
								TRV1-270-144-30 CE	4,000	CE 140/40	335820
<b>Length 2,900 mm</b>				<b>Length 3,300 mm</b>							
TRV1-290-084-30 CE	1,350	CE 80/40	334400*	TRV1-330-114-30 CE	2,100	CE 110/40	335180				
TRV1-290-104-30 CE	2,200	CE 100/40	334770*	TRV1-330-124-30 CE	2,500	CE 120/40	335550*				
TRV1-290-114-30 CE	2,700	CE 110/40	335140	TRV1-330-144-30 CE	3,000	CE 140/40	335880				
TRV1-290-124-30 CE	3,100	CE 120/40	335510*								
TRV1-290-144-30 CE	3,750	CE 140/40	335840								
<b>Length 3,600 mm</b>				<b>Length 3,900 mm</b>							
TRV1-360-114-30 CE	1,800	CE 110/40	335210	TRV1-390-145-30 CE	2,500	CE 140/50	323490				
TRV1-360-124-30 CE	2,200	CE 120/40	335580*								
TRV1-360-145-30 CE	2,900	CE 140/40	323460								

\* Minimum order quantity on request.

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support

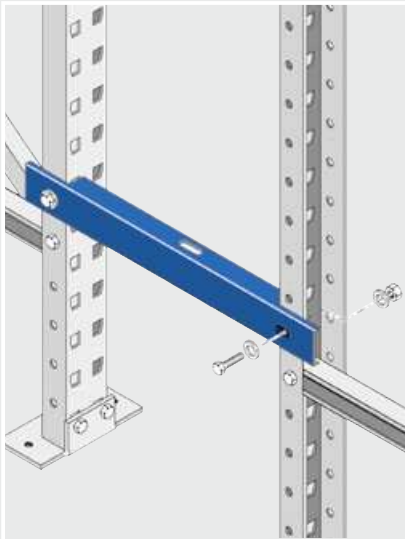


**GALVANIZED**  
Fixing angle



**GENTIAN BLUE**  
Spacers  
Front-to-back supports  
Fork spacers  
RAL 5010

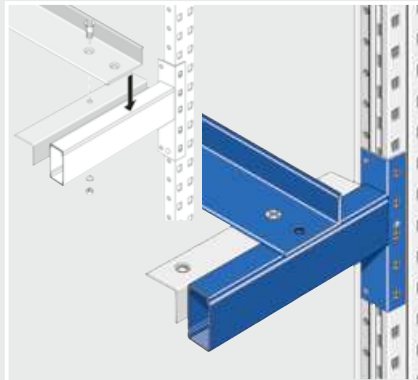
# Accessories



## 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.
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



## 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.
AW 19	1,900	6690073
AW 22	2,200	155040
AW 27	2,700	155050
AW 29	2,900	155060
AW 33	3,300	155070
AW 36	3,600	155080
AW 39	3,900	155090

## 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.
QA85	850	800	155100
QA110	1,100	1,000	6688844
QA125	1,250	1,200	155140

#### With 30 mm backstop

Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
QA85A	850	800	155110
QA110A	1,100	1,000	6688881
QA125A	1,250	1,200	155150

### 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.
QA855	850	800	155160
QA1105	1,100	1,000	6690541
QA1255	1,250	1,200	155200

#### With 40 mm backstop

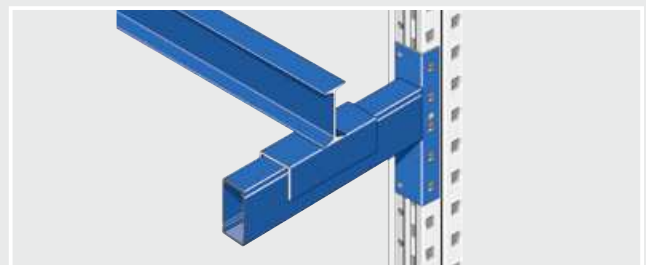
Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
QA855A	850	800	155170
QA1105A	1,100	1,000	6690546
QA1255A	1,250	1,200	155210



## 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.
TA-C-085-10	850	1,000	6700196
TA-C-110-10	1,100	1,000	6700198



## 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.
QU 851	850	155220
QU 1101	1,100	6688837
QU 1251	1,250	155240

Order no. = on stock



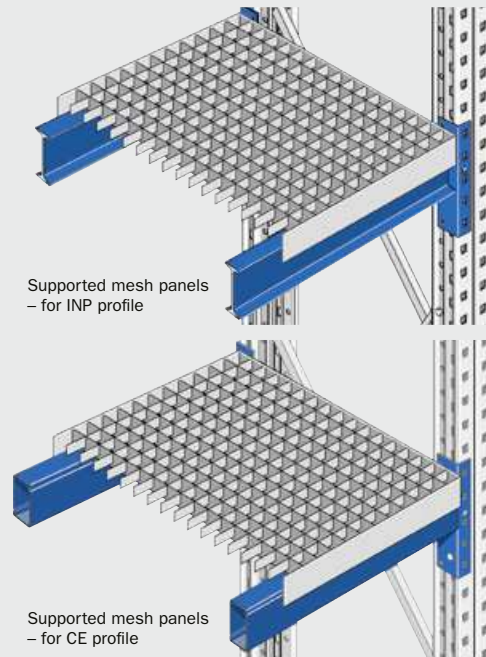
# Accessories

## 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.
FGA19-085-30-134X	850	1,900	30	1,600	162559
FGA19-110-30-134X	1,100	1,900	30	1,400	2041671
FGA19-125-35-140X	1,250	1,900	35	1,500	162581
FGA22-085-30-134X	850	2,200	30	2,000	156100
FGA22-110-30-134X	1,100	2,200	30	1,700	2041672
FGA22-125-35-140X	1,250	2,200	35	1,900	156240
FGA27-085-30-134X	850	2,700	30	2,500	156110
FGA27-110-30-134X	1,100	2,700	30	2,100	2041674
FGA27-125-35-140X	1,250	2,700	35	2,300	156250
FGA29-085-30-134X	850	2,900	30	2,700	156120
FGA29-110-30-134X	1,100	2,900	30	2,300	2041675
FGA29-125-35-140X	1,250	2,900	35	2,500	156260
FGA33-085-30-134X	850	3,300	30	3,000	156130
FGA33-110-30-134X	1,100	3,300	30	2,600	2041676
FGA33-125-35-140X	1,250	3,300	35	2,900	156270
FGA36-085-30-134X	850	3,600	30	3,300	156140
FGA36-110-30-134X	1,100	3,600	30	2,800	2041677
FGA36-125-35-140X	1,250	3,600	35	3,100	156280
FGA39-085-30-134X	850	3,900	30	3,500	156150
FGA39-110-30-134X	1,100	3,900	30	3,100	2041678
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
1,900	300	5
	200	2
2,200	300	6
	200	2
2,700	300	9

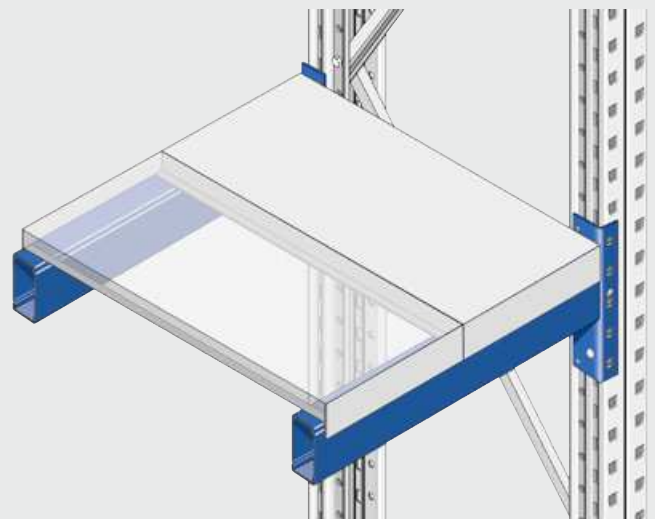
Clear bay width (mm)	Panel width (mm)	Number of panels
2,900	300	9
	200	1
3,300	300	11
	300	12
3,900	300	13

### Panel width 200 mm

Item	for frame depth (mm)	Load (kg)	Order no.
FPA 20-085-40-40X	850	680	193150
FPA 20-110-40-40X	1,100	550	6701139
FPA 20-125-40-40X	1,250	460	193170

### Panel width 300 mm

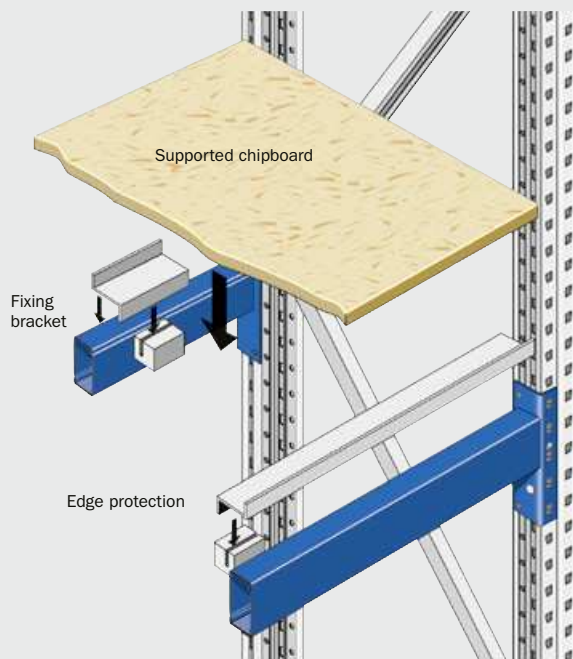
Item	for frame depth (mm)	Load (kg)	Order no.
FPA 30-085-40-30X	850	340	193110
FPA 30-085-40-50X		700	193190
FPA 30-110-40-30X	1,100	200	6701140
FPA 30-110-40-50X		630	6691258
FPA 30-125-40-30X	1,250	190	193130
FPA 30-125-40-50X		500	193210



# Accessories

## 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 1924	1,900	308390
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 1,900 to 2,900 mm and 8 for the clear bay width 3,300 to 3,900 mm.

<b>FSHB 24</b>	Fixing bracket, incl. spacer block (plastic)	1 pc.	<b>156910</b>
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## 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.
<b>BA 10 SL</b>	M 10 expansion anchor	<b>67030</b>
<b>BA 10 VA</b>	M 10 adhesive anchor	<b>67390</b>

## 38 mm thick, normal compression for INP and CE profiles

Item	Frame depth (mm)	Clear bay width (mm)	Comp. load (kg)	Order no.
<b>FSA 19-085-38-NX</b>	850	1,900	1,300	<b>669834</b>
<b>FSA 19-110-38-NX</b>	1,100	1,900	950	<b>6691186</b>
<b>FSA 19-125-38-NX</b>	1,250	1,900	600	<b>669954</b>
<b>FSA 22-085-38-NX</b>	850	2,200	1,600	<b>306850</b>
<b>FSA 22-110-38-NX</b>	1,100	2,200	1,100	<b>6689288</b>
<b>FSA 22-125-38-NX</b>	1,250	2,200	750	<b>307130</b>
<b>FSA 27-085-38-NX</b>	850	2,700	2,000	<b>306860</b>
<b>FSA 27-110-38-NX</b>	1,100	2,700	1,400	<b>6689290</b>
<b>FSA 27-125-38-NX</b>	1,250	2,700	900	<b>307140</b>
<b>FSA 29-085-38-NX</b>	850	2,900	2,200	<b>306870</b>
<b>FSA 29-110-38-NX</b>	1,100	2,900	1,500	<b>6689292</b>
<b>FSA 29-125-38-NX</b>	1,250	2,900	1,000	<b>307150</b>
<b>FSA 33-085-38-NX</b>	850	3,300	2,500	<b>306880</b>
<b>FSA 33-110-38-NX</b>	1,100	3,300	1,700	<b>6689300</b>
<b>FSA 33-125-38-NX</b>	1,250	3,300	1,100	<b>307160</b>
<b>FSA 36-085-38-NX</b>	850	3,600	2,700	<b>306890</b>
<b>FSA 36-110-38-NX</b>	1,100	3,600	1,900	<b>6689302</b>
<b>FSA 36-125-38-NX</b>	1,250	3,600	1,200	<b>307170</b>
<b>FSA 39-085-38-NX</b>	850	3,900	2,900	<b>306900</b>
<b>FSA 39-110-38-NX</b>	1,100	3,900	2,000	<b>6689304</b>
<b>FSA 39-125-38-NX</b>	1,250	3,900	1,300	<b>307180</b>

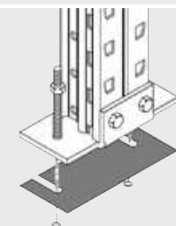
## 38 mm thick, highly compressed for INP and CE profiles

Item	Frame depth (mm)	Clear bay width (mm)	Comp. load (kg)	Order no.
<b>FSA 19-085-38-HX</b>	850	1,900	2,100	<b>669864</b>
<b>FSA 19-110-38-HX</b>	1,100	1,900	1,500	<b>6691226</b>
<b>FSA 19-125-38-HX</b>	1,250	1,900	1,000	<b>669984</b>
<b>FSA 22-085-38-HX</b>	850	2,200	2,600	<b>306920</b>
<b>FSA 22-110-38-HX</b>	1,100	2,200	1,900	<b>6689289</b>
<b>FSA 22-125-38-HX</b>	1,250	2,200	1,300	<b>307200</b>
<b>FSA 27-085-38-HX</b>	850	2,700	3,200	<b>306930</b>
<b>FSA 27-110-38-HX</b>	1,100	2,700	2,300	<b>6689291</b>
<b>FSA 27-125-38-HX</b>	1,250	2,700	1,600	<b>307210</b>
<b>FSA 29-085-38-HX</b>	850	2,900	3,500	<b>306940</b>
<b>FSA 29-110-38-HX</b>	1,100	2,900	2,500	<b>6689293</b>
<b>FSA 29-125-38-HX</b>	1,250	2,900	1,700	<b>307220</b>
<b>FSA 33-085-38-HX</b>	850	3,300	4,000	<b>306950</b>
<b>FSA 33-110-38-HX</b>	1,100	3,300	2,800	<b>6689301</b>
<b>FSA 33-125-38-HX</b>	1,250	3,300	1,900	<b>307230</b>
<b>FSA 36-085-38-HX</b>	850	3,600	4,000	<b>306960</b>
<b>FSA 36-110-38-HX</b>	1,100	3,600	3,100	<b>6689303</b>
<b>FSA 36-125-38-HX</b>	1,250	3,600	2,100	<b>307240</b>
<b>FSA 39-085-38-HX</b>	850	3,900	4,000	<b>306970</b>
<b>FSA 39-110-38-HX</b>	1,100	3,900	3,300	<b>6689305</b>
<b>FSA 39-125-38-HX</b>	1,250	3,900	2,300	<b>307250</b>

## Base shims

To compensate for uneven ground, galvanized.

Item	Thickness (mm)	Support profile	Order no.
<b>AP 60.91</b>	1	P73 - P95	<b>143150</b>
<b>AP 60.92</b>	2	P73 - P95	<b>155010</b>



## Insulation plates

Insulation plates made of plastic are needed for each rack support in order to prevent corrosion on floors containing magnesium.

<b>IP 60.91</b>	1	P73 - P95	<b>155020</b>
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Order no. = on stock



GALVANIZED RAPESEED YELLOW SIGNAL YELLOW



Design according to FEM 10.2.16

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

**Corner protector**

Sturdy, angle profile with strong floor plate, including an anchor for attachment to the hall floor.



ES 400 K corner protector

Item	Height (mm)	Order no.
ES 400 K	400	8007268

**Upright protector**

For reinforcing the front rack supports and as a protection against damage, 750 mm high, including fixing kit. Plastic version on request.



Upright protector

Item	for support width (mm)	Height (mm)	for support profile	Order no.
STS 75-6-400	75	400	P 75	8007537
STS 75-6-750		750	P 75	8007533
STS 90-6-400	90	400	P 90	8007538
STS 90-6-750		750	P 90	8007534
STS 100-6-400	100	400	P 100	8007539
STS 100-6-750		750	P 100	8007535
STS 120-6-400	120	400	P 120	8007540
STS 120-6-750		750	P 120	8007536

**Guard**

To protect the rack supports against being damaged by ground conveyors, 155 mm wide, U-shaped, including 4 floor anchors.

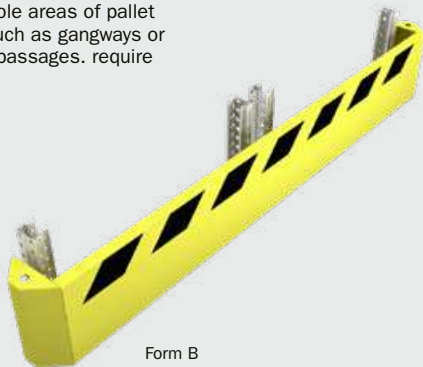


Guard

Item	Height (mm)	for support profile	Order no.
AS 400/6-1	400	P 73 - P 95	8009384
AS 400/6-2	400	P 113 - P 215	8009387

**Buffer**

Particularly vulnerable areas of pallet racking systems, such as gangways or heavily frequented passages, require sturdy buffers.

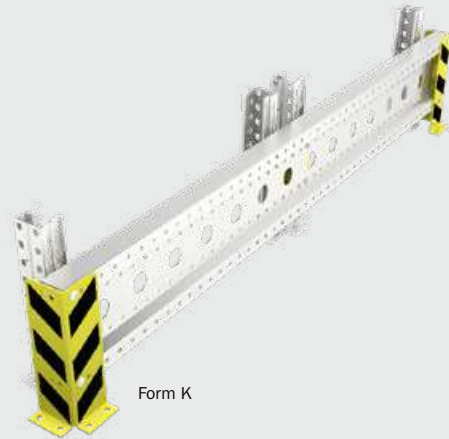


Form B

**Form B**

400 mm high, 265 mm wide, including floor anchors.

Item	for frame depth (mm)	Order no.
RS4B 085	850	8003854
RS4B 110	1.100	8003864
RS4B 125	1.250	8003869
RS4B 180	1.800	8003874
RS4B 220	2.200	8003879
RS4B 230	2.300	8003884
RS4B 235	2.350	8003889
RS4B 240	2.400	8003894
RS4B 245	2.450	8003899
RS4B 250	2.500	8003904
RS4B 255	2.550	8003909
RS4B 260	2.600	8003914



Form K

**Form K**

With a sturdy C-Sigma profile, 400 mm high, 159 mm wide, including floor anchor, with additional support above 1,800 mm long.

Item	for frame depth (mm)	Best.-Nr.
RS 0854 K	850	8009062
RS 1054 K	1.050	8009063
RS 1104 K	1.100	8009064
RS 1254 K	1.250	8009065
RS 1804 K	1.800	8009068
RS 2204 K	2.200	8009070
RS 2304 K	2.300	8009071
RS 2354 K	2.350	8009072
RS 2404 K	2.400	8009073
RS 2454 K	2.450	8009074
RS 2504 K	2.500	8009075
RS 2554 K	2.550	8009076
RS 2604 K	2.600	8009077

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support



# 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

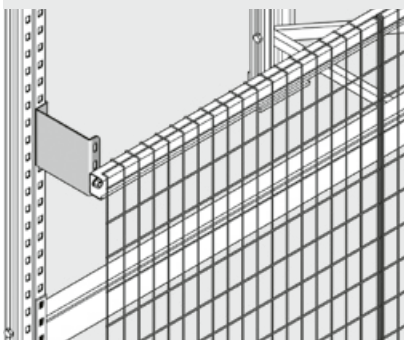
Item	Clear bay width (mm)	Order no.
GRM-0907	900	6686319
GRM-1107	1,100	6686320
GRM-1307	1,300	6686321
GRM-1907	1,900	6686886
GRM-2207	2,200	6686329
GRM-2707	2,700	6686330
GRM-2907	2,900	6686331
GRM-3307	3,300	6686332
GRM-3607	3,600	6686333
GRM-3907	3,900	6686334

### 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-1911	1,900	6686910
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

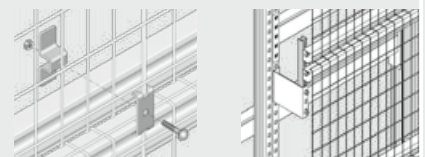
### Mesh segment height 1,273 mm

Item	Clear bay width (mm)	Order no.
GRM-0912	900	6686325
GRM-1112	1,100	6686326
GRM-1312	1,300	6686327
GRM-1912	1,900	6686934
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	1,100	6690046
<b>with consideration of a end stop</b>			
GRM-K2-180-S	180	850, 1,250	6690047
GRM-K2-340-S	340	1,100	6690050



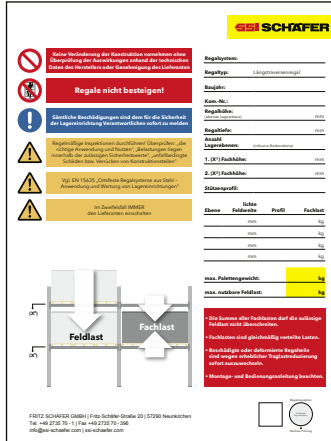
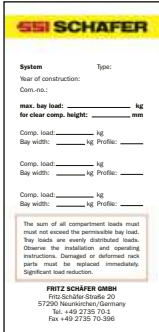
Item	Order no.
<b>Mesh connector</b> (see table above)	
GRM-GVS	6687406
<b>Compensating rods</b> (incl. fixing kit)	
GRM-ASS	6686298

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	<b>992305*</b>
<b>TS 0615</b>	60 x 150	PVC adhesive film	<b>157300*</b>

\* The technical data is defined via a time sheet. It is offered and invoiced as part of the price of the sign.

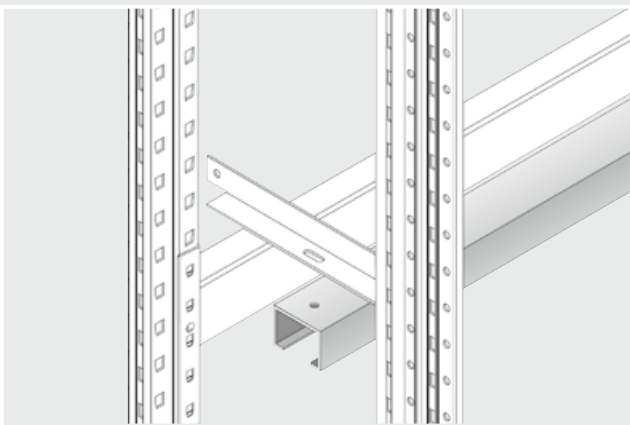
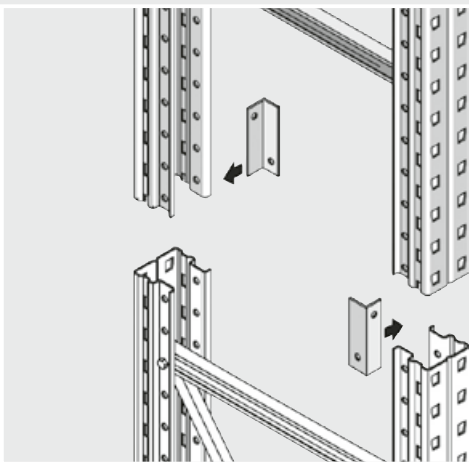
**Frame extension at row end**

Protects against lower units from falling out of the sides, 500 mm high including fixing kit.

Surface: Galvanized.

**Note:** Frame extensions at row end cannot be used in conjunction with mesh back panels.

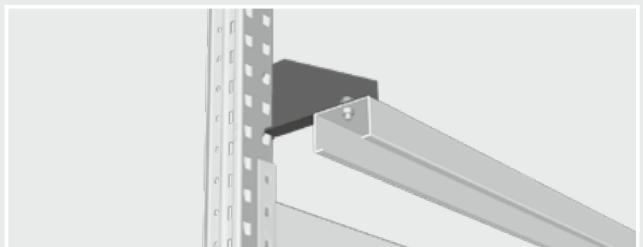
Artikel	Frame profil (mm)	Frame depth (mm)	Order no.
<b>AN 68</b>	75	850	<b>34870</b>
<b>AN 98</b>	90	850	<b>34860</b>
<b>AN 611</b>	75	1.100	<b>on req.</b>
<b>AN 911</b>	90	1.100	<b>on req.</b>
<b>AN 62</b>	75	1.250	<b>34890</b>
<b>AN 92</b>	90	1.250	<b>34850</b>



**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.

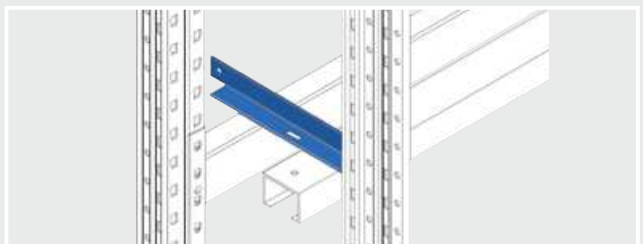
Item	Clear bay width (mm)	Profile	Order no.
<b>DSC060FW1900</b>	1,900	C 60/40	<b>6689260</b>
<b>DSC060FW2300</b>	2,300	C 60/40	<b>6689264</b>
<b>DSC060FW2700</b>	2,700	C 60/40	<b>6689268</b>
<b>DSC100FW2900</b>	2,900	C 100/60	<b>6689270</b>
<b>DSC100FW3300</b>	3,300	C 100/60	<b>6689274</b>
<b>DSC100FW3600</b>	3,600	C 100/60	<b>6689277</b>
<b>DSC100FW3900</b>	3,900	C 100/60	<b>6689280</b>



**Accessories for end stops for single-row racks**

Single-row racks require 2 brackets with 126 mm spacing for each end stop.

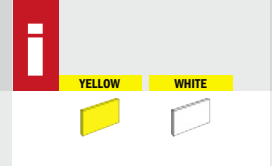
Item	for frame depth (mm)	Order no.
<b>DSC-K110</b>	1,100	<b>6689689</b>



**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 C9**.



# 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.

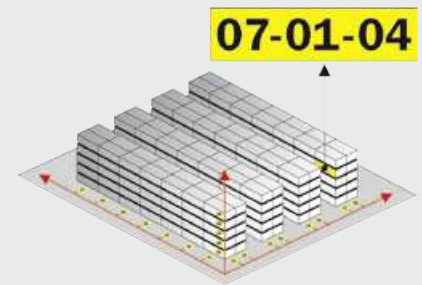
Systematic numbering of all storage spaces and the number key form the basis and the prerequisite for efficient warehouse organization.

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.



## **i** Further versions

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

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**

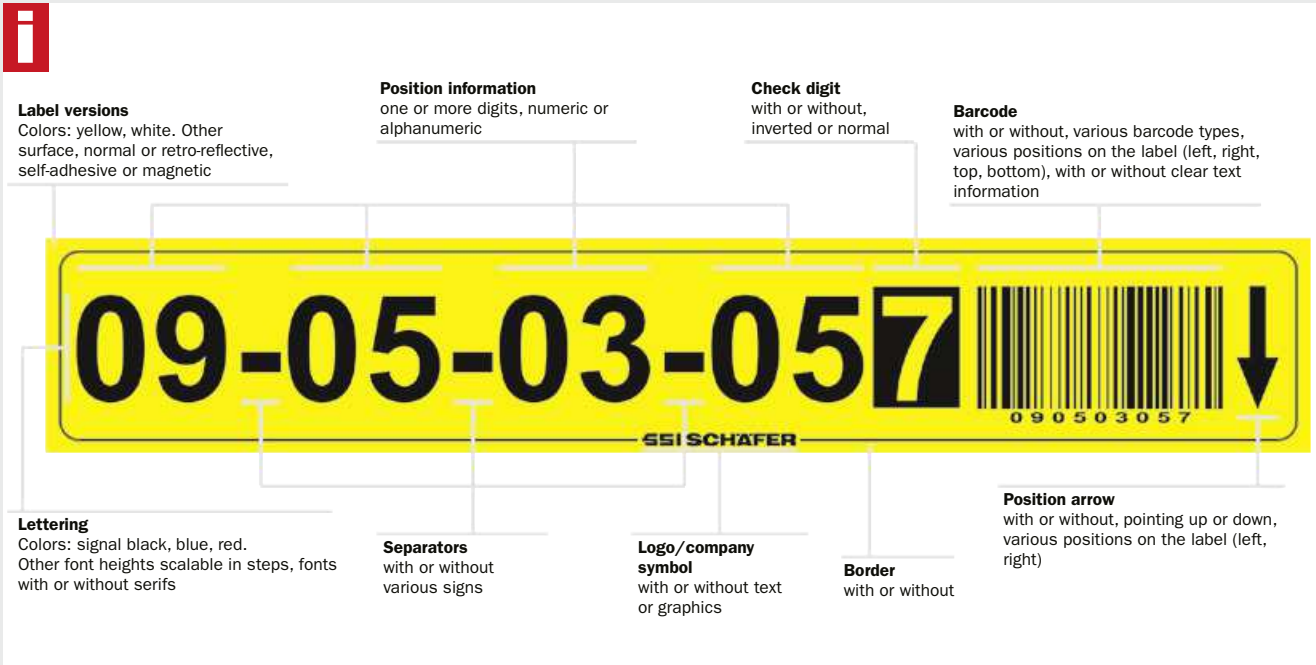
Item	W x H (mm)	Order no.
R SK 1230 SW	120 x 30	189903
R SK 1438 SW	140 x 38	189904
R SK 2265 SW	220 x 65	189905

from 2,000 units on request

Order no. = on stock



# Storage and storage space marking



## 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



Modular shelving

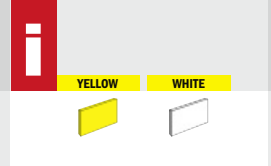
Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support



# 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



### Rack row signs

Made of PVC, impact-resistant, color: yellow, Font: black, up to 2 characters, including fixing kit.

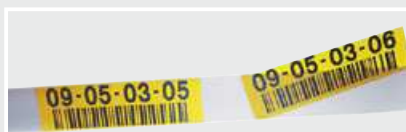
Item	W x H (mm)	Order no.
R RZ 20200	200 x 200	189912
R RZ 30300	300 x 300	189913
R RZ 50500	500 x 500	189914



### 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/m<sup>2</sup> 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

- Employees must be informed about and trained in the correct operation of the equipment.
- The permissible loads on the rack type plates must not be exceeded.
- Changes to the rack structure influence the load bearing capacity of the equipment. The effects must be examined and the supplier consulted.
- Damaged or deformed rack parts must be replaced immediately as their load bearing capacity is significantly reduced.
- Pallets, boxes or other loading equipment must be checked to ensure that it is in safe condition and replaced if damage is found.

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### SAFETY NOTE

Please report all damage for safety purposes.

Responsible safety officer: \_\_\_\_\_

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### 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



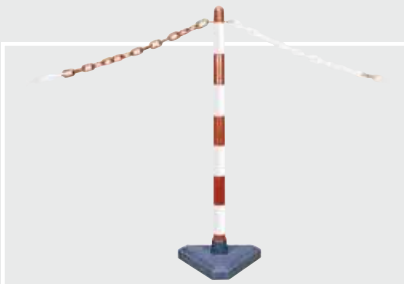
# Storage and storage space marking



## Cleaning agents

For cleaning and preparing the adhesive surfaces for self-adhesive labels.

Item		Order no.
R RM	Cleaning agent 0.5 l	189922
R RA	Scraper	189923
R RT	Cleaning cloths 50 pcs.	189924



## Chains

Red/white; chain stand with triangular, cement filled stand, including 2 hooks made of plastic – for fastening the chain barrier to the chain stand; chain barriers made of plastic, color change every 50 cm, colorfast and weather-resistant.

Item	Type	Order no.
R KS	Chain stand	189928
R KG	Chain barrier	189929



## Warning marking tape made of PE film

66 meters long, 60 mm wide, yellow/black crosshatched.

Item	Type	Order no.
R WA LI	Pointing left	189927

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### Numbering plan creation

The number plan is the basis for calculating the rack spaces.  
For each column, please specify whether the lettering should be

- numeric or alphabetic
- and
- 1, 2 or 3 digits.

For alphabetic labels, please specify the corresponding number value.  
A = 1, B = 2, C = 3 etc.

Here: all positions and 2 digit numeric

Warehouse Area	Rack row or aisle	Longitudinal position	Storage space or rack bay	Height position	Total
Example: 1 to 1 (1)	3 to 3 (1)	3 to 5 (3)	1 to 3 (3)	1 to 4 (4)	1 x 1 x 3 x 3 x 4 = 36
<input type="radio"/> numeric <input type="radio"/> 1 digit <input type="radio"/> alphabetic <input type="radio"/> 2 digits	<input type="radio"/> numeric <input type="radio"/> 1 digit <input type="radio"/> alphabetic <input type="radio"/> 2 digits <input type="radio"/> 3 digits	<input type="radio"/> numeric <input type="radio"/> 1 digit <input type="radio"/> alphabetic <input type="radio"/> 2 digits <input type="radio"/> 3 digits	<input type="radio"/> numeric <input type="radio"/> 1 digit <input type="radio"/> alphabetic <input type="radio"/> 2 digits	<input type="radio"/> numeric <input type="radio"/> 1 digit <input type="radio"/> alphabetic <input type="radio"/> 2 digits	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
to	to	to	to	to	
Total sum of the rack spaces					

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## Internat. rescue sign EXIT

390 x 115 mm, made of aluminum.

Item	Type	Order no.
R IR LI	Pointing left	189932
R IR RE	Pointing right	189933
R IR AB	Down	189930
R IR AU	Up	189931



## Prohibition signs made of aluminum

200 mm diameter, as per DIN 4844 -2.

Item	Type	Order no.
R VZ 20F12	"Pedestrians prohibited"	189925
R VZ 20U12	"Unauthorized access prohibited"	189926

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support