

2025/2026 | Chapter C

Pallet Rack Systems

Extract from general catalog

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Pallet Racks - a Modular System With Limitless Versatility

SSI SCHAEFER's pallet racks are as practical as the Euro and industrial pallets themselves. Whether for flat pallets, cage pallets or other loading aids, beam racks for single or multiple storage locations allow a high level of mobility for quick goods turnover. Multi-place longitudinal beam rack systems can be found in all industries, from wholesale and spare parts warehouses to electronics and mechanical engineering and automotive manufacturing.

With suitable accessories, pallets or bins can be optimally stored, even with varying dimensions.





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- Pallet rack accessories Page **C10**
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- Pallet flow racks Page **C16**
- Warehouse and storing position labeling Page **C18**

All load values specified apply for evenly distributed loads.

Overview of Pallet Rack System



PR 600 longitudinal beam racks

Applications	<ul style="list-style-type: none"> ■ Pallet storage for medium and large-volume goods with medium to high load, e.g., for logistics service providers or in distribution warehouses
Advantages	<ul style="list-style-type: none"> ■ Lightweight and economical ■ Stable thanks to special shape ■ Precise dimension conformity
Design	<ul style="list-style-type: none"> ■ Bolted frame structure with longitudinal beams, 4 upright profiles in each of the 3 frame depths, 10 frame heights, 2 beam types, 7 bay lengths
Beam connection	<ul style="list-style-type: none"> ■ Push-fit system
System hole pattern	<ul style="list-style-type: none"> ■ 50 x 50 mm
Support widths	<ul style="list-style-type: none"> ■ 75, 90, 100, 120 mm
Frame load capacity	<ul style="list-style-type: none"> ■ Up to 30,000 kg
Beam load capacity	<ul style="list-style-type: none"> ■ Up to 4,500 kg per pair
Frame surface	<ul style="list-style-type: none"> ■ Galvanized
Beam surface	<ul style="list-style-type: none"> ■ Painted RAL 5010, Gentian Blue
From page	<ul style="list-style-type: none"> ■ C4



Required safety equipment for racks according to DGUV Information 208-061

1.1 Row end frame height

Row end frames must be at least 500 mm higher than the top rack.

1.2 Transit routes

Transit routes must be covered (with chipboard, floor grating).
The minimum passage overhead clearance is 2,000 mm.

1.3 Safety distance

Observe a safety distance of at least 100 mm between the pallets in double-sided racks; push-through protection must be provided if the minimum safety distance cannot be met.

1.4 End frames

Freestanding end frames must have corner protection. This also applies to transit routes.

1.5 Single-sided racks

Freestanding single-sided racks where one side is not intended for loading or unloading must be equipped with features to prevent loading units from falling off, such as back panels.

1.6 Transposed stacking

Transposed stacking requires pallets or bins to be secured, e.g., by support beams, chipboard, or floor grating. This does not apply to stringer pallets.

1.7 Payload signs

All rack installations must have payload signs.



Technical regulations for pallet racking

2.1 Rack lines

A rack line must consist of at least three rack bays.

2.2 Beam levels

There must be at least two beam levels per rack bay.

2.3 Compartment heights

Compartment heights must not differ more than 200 mm.
The maximum compartment height is 2,500 mm.

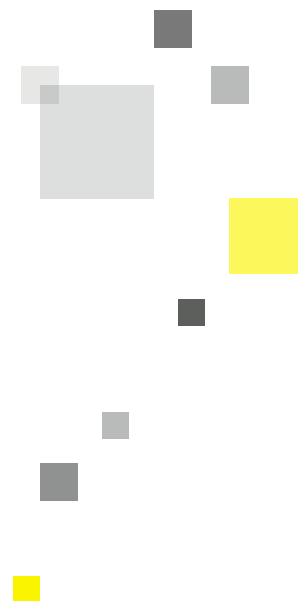
2.4 Concrete quality of the hall floor

Minimum concrete quality of the hall floor:
C20/25 as per EN 1992. Concrete thickness 200 mm.



Information on **inspection requirements for rack installations**

Chapter J, page J6



PR 600 - the Modern Pallet Rack System

The PR 600 rack system boasts a wide range of versatile configuration options. A lot of designs are possible, to maximize warehouse capacity while taking up minimal space.

One advantage that often does not come into play until later is the ability to adapt the system to changing circumstances. The rack frames are bolted and designed for maximum loads.

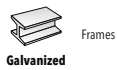
This is a modern pallet rack system - a versatile module for individual solutions.



■ Tested quality

PR 600 longitudinal beam racks bear the RAL-RG 614/2 quality seal. Compliance with the criteria for this seal is checked twice per year by an independent authority. This guarantees that both the material and the production meet the high quality requirements.





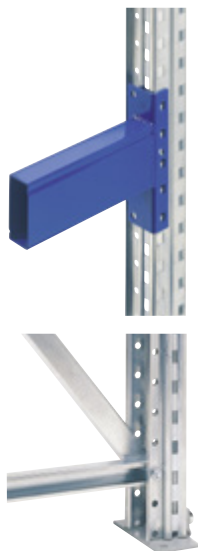
Frames



Longitudinal beams

PR 600 Frames and Longitudinal Beams

- **Maximum load capacity**
Frame load capacity up to 30,000 kg (with at least two INP 100 beam pairs per rack bay and five rack bays per rack line), beam load capacity up to 4,500 kg per pair
- **Lightweight and economical**
- **Stable thanks to special shape**
- **High-quality materials**
- **Precise dimension conformity**
- **System hole pattern**
spaced 50 x 50 mm
- **Support widths**
75, 90, 100, 120 mm
- **Simple design**
with just a few components
- **Bolted frame structure**



Mesh back panels
Page C14

Frames
Page C8

Fork spacers
Page C10

Angled profile support beams
Page C10

Payload sign
Page C15

Collision guards
Page C13

Floor grating on INP beam profile
Page C11

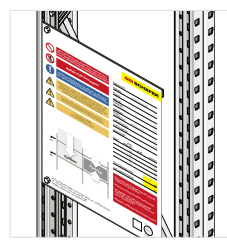
Longitudinal beams
Page C9

Chipboard, supported
Page C12

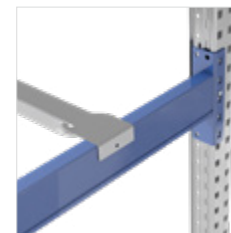
Steel panels on INP beam profile
Page C11



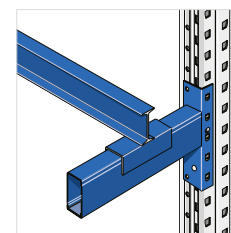
Corner protection



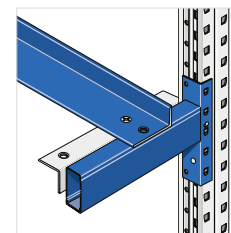
Payload sign



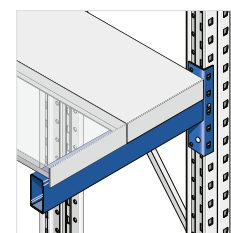
Support beam



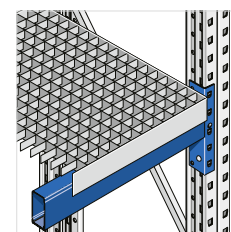
Fork spacer



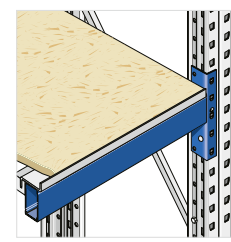
Angled profile support beams with locking bracket



Steel panel, supported



Floor grating, supported



Chipboard with edge protection, supported

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

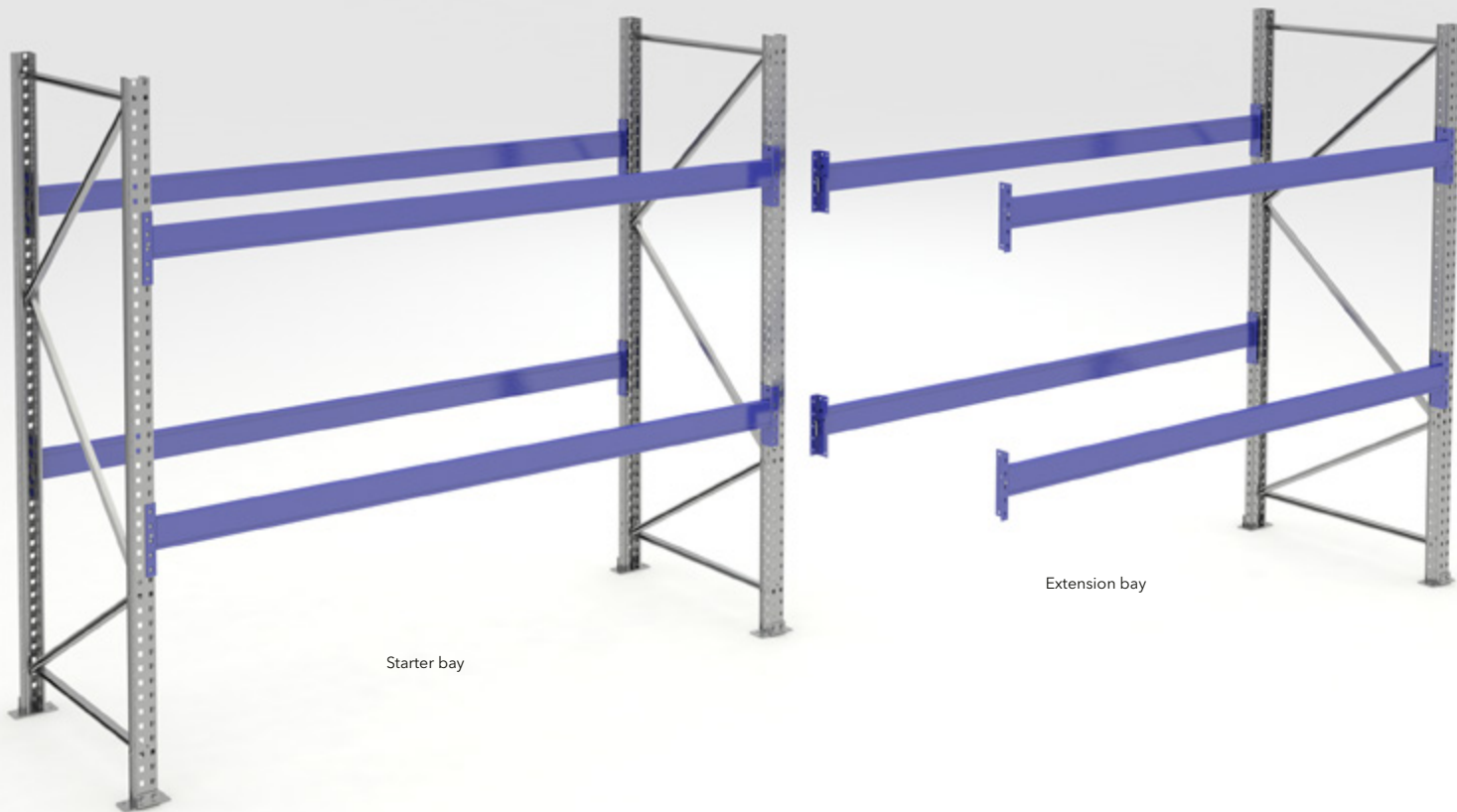
Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software



PR 600 Pallet Rack – Starter and Extension Bays

The complete racks in the PR 600 pallet rack system are available in frame depths 850 mm and 1,100 mm and in different heights, which can accommodate up to five storage levels. The rack frames are bolted and designed for maximum loads.

The starter bay is supplied complete with frame, beams, two anchors/supports and two payload signs. It can be extended easily with extension bays in two widths (2,700 mm and 1,900 mm).

Frame depth 850 mm

Max. pallet weight (kg)	Frame height (mm)	No. of storage levels	Lower compartment height (mm)	Max. bay load (kg)	Beam height (mm)	Support width (mm)	Starter bay Clear bay width 2,700 mm including 2 payload signs and 2 anchors/supports	Extension bay Clear bay width 2,700 mm including 2 anchors/supports	Extension bay Clear bay width 1,900 mm including 2 anchors/supports
							Order no.	Order no.	Order no.
800	2,500	3	1,000	4,800	100	75	1017900	1017914	1017928
	3,600	3	1,500	4,800	100	75	1017902	1017916	1017930
	3,600	4	1,000	7,200	100	75	1017903	1017917	1017931
	4,700	3	1,950	4,800	100	75	1017904	1017918	1017932
	4,700	4	1,400	7,200	100	75	1017905	1017919	1017933
	5,800	4	1,700	7,200	100	75	1017906	1017920	1017934
	5,800	5	1,250	9,600	100	100	1017912	1017926	1017940
1,000	2,500	3	1,000	6,000	110	75	1017901	1017915	1017929
	3,600	3	1,500	6,000	110	100	1017907	1017921	1017935
	3,600	4	1,000	9,000	110	100	1017908	1017922	1017936
	4,700	3	1,950	6,000	110	100	1017909	1017923	1017937
	4,700	4	1,400	9,000	110	100	1017910	1017924	1017938
	5,800	4	1,700	9,000	110	100	1017911	1017925	1017939
	5,800	5	1,250	12,000	110	100	1017913	1017927	1017941



Support profiles



Longitudinal beams

Support profiles

made from cold-rolled, high-strength steel. High stability thanks to their special shape and bolted together with horizontal and diagonal braces to create a stable framework. Delivered unassembled.

System hole pattern 50 x 50 mm.

Massive foot plates ensure secure transfer of the loads to the floor.

Longitudinal beams

with five-hook end stops welded on. Guarantee an interlocking connection with the rack supports.

Height can be adjusted within the grid with system hole pattern 50 x 50 mm.

Two fixing pins (included in scope of delivery) per section are required to prevent unintentional removal.

The load values specified apply for evenly distributed loads.

Tested quality

PR 600 longitudinal beam racks bear the RAL-RG 614/2 quality seal. Compliance with the criteria for this seal is checked twice per year by an independent authority. This guarantees that both the material and the production meet the high quality requirements.



Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

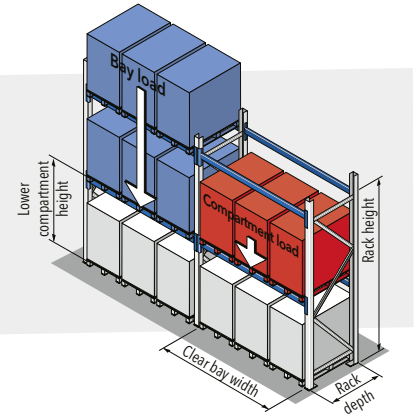
Customer
Service & Support

Software



Notice:

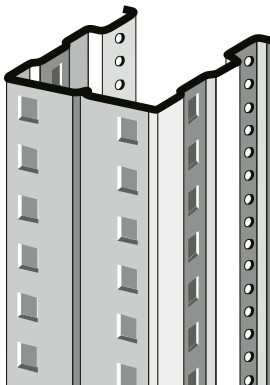
The lower compartment height must never be exceeded. The number of bays does not affect load-bearing capacity (Valid only for starter and extension bays on page C6 and C7). Additional levels are possible as long as the max. bay loads are observed. For more information on beams, see **page C9**. Note the safety accessories on **pages C13-C15**.



Frame depth 1,100 mm

Max. pallet weight (kg)	Frame height (mm)	No. of storage levels	Lower compartment height (mm)	Max. bay load (kg)	Beam height (mm)	Support width (mm)	Starter bay	Extension bay	Extension bay
							Clear bay width 2,700 mm including 2 payload signs and 2 anchors/supports	Clear bay width 2,700 mm including 2 anchors/supports	Clear bay width 1,900 mm including 2 anchors/supports
							Order no.	Order no.	Order no.
800	2,500	3	1,000	4,800	100	75	1017302	1017315	1017328
	3,600	3	1,500	4,800	100	75	1017304	1017317	1017330
	3,600	4	1,000	7,200	100	75	1017305	1017318	1017331
	4,700	3	1,950	4,800	100	75	1017306	1017319	1017332
	4,700	4	1,400	7,200	100	75	1017307	1017320	1017333
	5,800	4	1,700	7,200	100	75	1017308	1017321	1017334
	5,800	5	1,250	9,600	100	100	1017314	1017327	1017340
1,000	2,500	3	1,000	6,000	110	75	1017303	1017316	1017329
	3,600	3	1,500	6,000	110	100	1017309	1017322	1017335
	3,600	4	1,000	9,000	110	100	1017310	1017323	1017336
	4,700	3	1,950	6,000	110	100	1017311	1017324	1017337
	4,700	4	1,400	9,000	110	100	1017312	1017325	1017338
	5,800	4	1,700	9,000	110	100	1017313	1017326	1017339
	5,800	5	1,250	12,000	110	100	1017897	1017898	1017899

PR 600 Frames



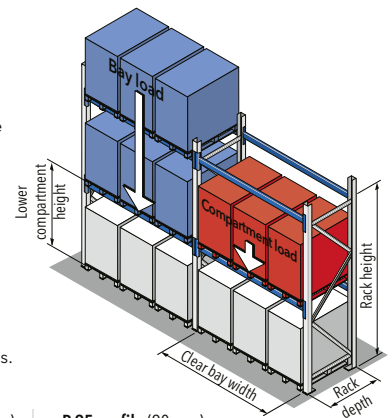
■ Frame load capacity

The permissible frame load (or bay load) depends on the compartment height and the planned beam profile. The specified values apply for racks with at least two pairs of longitudinal beams per rack bay, rack lines with at least five rack bays and CE 110 (for bay width 2,700 mm) and CE 140 (for bay width 3,600 mm) longitudinal beams. Values vary depending on the beam profile used.

The load table design is based on DIN EN 15512:2020.

Compartment heights over 2,500 mm require a separate structural analysis.

Please contact our specialist consultants for any questions.



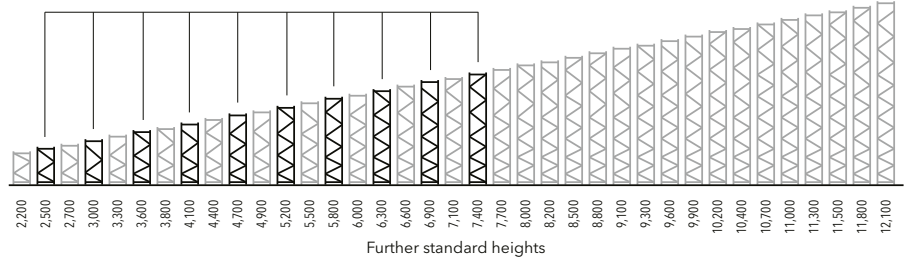
Support width	P 73 profile (75 mm)		P 93 profile (90 mm)		P 95 profile (90 mm)	
	Frame load capacity					
	Bay width		Bay width		Bay width	
Compartment height	2,700 mm	3,600 mm	2,700 mm	3,600 mm	2,700 mm	3,600 mm
750 mm	9,100 kg	8,750 kg	9,550 kg	9,650 kg	14,800 kg	13,700 kg
1,000 mm	7,900 kg	7,700 kg	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	7,950 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	7,400 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

Catalog dimensions



P 73 profile

Item	Frame height (mm)	Order no.
Frame depth 850 mm		
RV1-773-0250-085	2,500	1003851
RV1-773-0300-085	3,000	1003852
RV1-773-0360-085	3,600	1003853
RV1-773-0410-085	4,100	1003854
RV1-773-0470-085	4,700	1003855
RV1-773-0520-085	5,200	1003856

Item	Frame height (mm)	Order no.
Frame depth 1,100 mm		
RV1-773-0250-110	2,500	1017295
RV1-773-0300-110	3,000	1017429
RV1-773-0360-110	3,600	1017296
RV1-773-0410-110	4,100	1017432
RV1-773-0470-110	4,700	1017297
RV1-773-0520-110	5,200	1017435

Item	Frame height (mm)	Order no.
Frame depth 1,250 mm		
RV1-773-0250-125	2,500	1003899
RV1-773-0300-125	3,000	1003900
RV1-773-0360-125	3,600	1003901
RV1-773-0410-125	4,100	1003902
RV1-773-0470-125	4,700	1003903
RV1-773-0520-125	5,200	1003904

P 93 profile

Item	Frame height (mm)	Order no.
Frame depth 850 mm		
RV1-973-0250-085	2,500	1003857
RV1-973-0300-085	3,000	1003858
RV1-973-0360-085	3,600	1003859
RV1-973-0410-085	4,100	1003860
RV1-973-0470-085	4,700	1003861
RV1-973-0520-085	5,200	1003862
RV1-973-0580-085	5,800	1003863
RV1-973-0630-085	6,300	1003864
RV1-973-0690-085	6,900	1003865
RV1-973-0740-085	7,400	1003866

Item	Frame height (mm)	Order no.
Frame depth 1,100 mm		
RV1-973-0250-110	2,500	1017461
RV1-973-0300-110	3,000	1017463
RV1-973-0360-110	3,600	1017465
RV1-973-0410-110	4,100	1017467
RV1-973-0470-110	4,700	1017469
RV1-973-0520-110	5,200	1017471
RV1-973-0580-110	5,800	1017473
RV1-973-0630-110	6,300	1017475
RV1-973-0690-110	6,900	1017477
RV1-973-0740-110	7,400	1017479

Item	Frame height (mm)	Order no.
Frame depth 1,250 mm		
RV1-973-0250-125	2,500	1003905
RV1-973-0300-125	3,000	1003906
RV1-973-0360-125	3,600	1003907
RV1-973-0410-125	4,100	1003908
RV1-973-0470-125	4,700	1003909
RV1-973-0520-125	5,200	1003910
RV1-973-0580-125	5,800	1003911
RV1-973-0630-125	6,300	1003912
RV1-973-0690-125	6,900	1003913
RV1-973-0740-125	7,400	1003914

P 95 profile

Item	Frame height (mm)	Order no.
Frame depth 850 mm		
RV1-975-0360-085	3,600	1003867
RV1-975-0410-085	4,100	1003868
RV1-975-0470-085	4,700	1003869
RV1-975-0520-085	5,200	1003870
RV1-975-0580-085	5,800	1003871
RV1-975-0630-085	6,300	1003872
RV1-975-0690-085	6,900	1003873
RV1-975-0740-085	7,400	1003874

Item	Frame height (mm)	Order no.
Frame depth 1,100 mm		
RV1-975-0360-110	3,600	1017502
RV1-975-0410-110	4,100	1017504
RV1-975-0470-110	4,700	1017506
RV1-975-0520-110	5,200	1017508
RV1-975-0580-110	5,800	1017510
RV1-975-0630-110	6,300	1017512
RV1-975-0690-110	6,900	1017514
RV1-975-0740-110	7,400	1017516

Item	Frame height (mm)	Order no.
Frame depth 1,250 mm		
RV1-975-0360-125	3,600	1003915
RV1-975-0410-125	4,100	1003916
RV1-975-0470-125	4,700	1003917
RV1-975-0520-125	5,200	1003918
RV1-975-0580-125	5,800	1003919
RV1-975-0630-125	6,300	1003920
RV1-975-0690-125	6,900	1003921
RV1-975-0740-125	7,400	1003922



Support profiles

Galvanized



Longitudinal beams

Gentian Blue
RAL 5010

Support profiles

made from cold-rolled, high-strength steel. High stability thanks to their special shape and bolted together with horizontal and diagonal braces to create a stable framework. Delivered unassembled.

System hole pattern 50 x 50 mm.

Massive foot plates ensure secure transfer of the loads to the floor.

Longitudinal beams

with five-hook end stops welded on. Guarantee an interlocking connection with the rack supports.

Height can be adjusted within the grid with system hole pattern 50 x 50 mm.

Two fixing pins (included in scope of delivery) per section are required to prevent unintentional removal.

The load values specified apply for evenly distributed loads.

The order numbers apply for one beam.

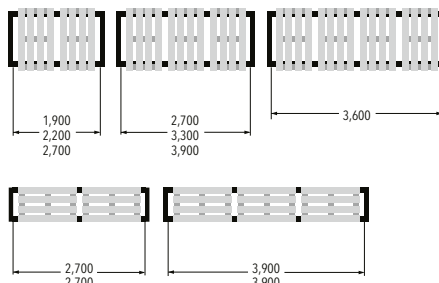
System dimensions for longitudinal beam racks

Storage along the depth

Pallet dimensions	Storage 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 along the length

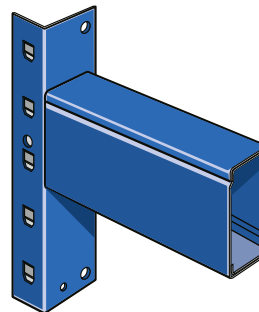
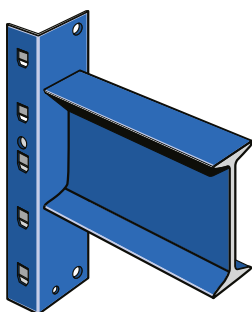
Pallet dimensions	Storage depth	Rack depth
800 x 1,200 mm	800 mm	850 mm
1,000 x 1,200 mm	1,000 mm	1,100 mm



Longitudinal Beams

Compatible with WR 600 wide span racks

Chapter B, from page B1



Longitudinal beams with INP profile

Item	Load/pair (kg)	Profile type	Order no.
Length 1,900 mm			
TRV1-190-08-I	2,800	INP 80	1004484
TRV1-190-10-I	4,500	INP 100	1004500
Length 2,200 mm			
TRV1-220-08-I	2,500	INP 80	1004487
TRV1-220-10-I	4,200	INP 100	1004503
Length 2,700 mm			
TRV1-270-08-I	2,100	INP 80	1004492
TRV1-270-10-I	3,500	INP 100	1004508
TRV1-270-12-I	4,500	INP 120	1004530
Length 2,900 mm			
TRV1-290-08-I	1,900	INP 80	1004494
TRV1-290-10-I	3,300	INP 100	1004510
TRV1-290-12-I	4,500	INP 120	1004532
Length 3,300 mm			
TRV1-330-08-I	1,400	INP 80	1004498
TRV1-330-10-I	2,700	INP 100	1004514
TRV1-330-12-I	4,400	INP 120	1004536
Length 3,600 mm			
TRV1-360-10-I	2,300	INP 100	1004517
TRV1-360-12-I	3,900	INP 120	1004539
Length 3,900 mm			
TRV1-390-10-I	2,000	INP 100	1004520
TRV1-390-12-I	3,400	INP 120	1004542

Longitudinal beams with CE profile

Item	Load/pair (kg)	Profile type	Order no.
Length 1,900 mm			
TRV1-190-084-30 CE	2,700	CE 80/40	1005173
TRV1-190-104-30 CE	3,600	CE 100/40	1005210*
TRV1-190-114-30 CE	4,000	CE 110/40	1005247
Length 2,200 mm			
TRV1-220-084-30 CE	2,200	CE 80/40	1005176
TRV1-220-104-30 CE	3,150	CE 100/40	1005213*
TRV1-220-114-30 CE	3,550	CE 110/40	1005250
Length 2,700 mm			
TRV1-270-084-30 CE	1,500	CE 80/40	1005181
TRV1-270-104-30 CE	2,500	CE 100/40	1005218*
TRV1-270-114-30 CE	3,000	CE 110/40	1005255
TRV1-270-124-30 CE	3,300	CE 120/40	1005292*
TRV1-270-144-30 CE	4,000	CE 140/40	1005325
Length 2,900 mm			
TRV1-290-084-30 CE	1,350	CE 80/40	1005183*
TRV1-290-104-30 CE	2,200	CE 100/40	1005220*
TRV1-290-114-30 CE	2,700	CE 110/40	1005257
TRV1-290-124-30 CE	3,100	CE 120/40	1005294*
TRV1-290-144-30 CE	3,750	CE 140/40	1005327
Length 3,300 mm			
TRV1-330-114-30 CE	2,100	CE 110/40	1005261
TRV1-330-124-30 CE	2,500	CE 120/40	1005298*
TRV1-330-144-30 CE	3,000	CE 140/40	1005331
Length 3,600 mm			
TRV1-360-114-30 CE	1,800	CE 110/40	1005264
TRV1-360-124-30 CE	2,200	CE 120/40	1005301*
TRV1-360-145-30 CE	2,900	CE 140/50	1004678
Length 3,900 mm			
TRV1-390-145-30 CE	2,500	CE 140/50	1004681

* Minimum order quantity on request.

Shelving Systems
Wide Span Racks
Pallet Racks
Cantilever Racks
On-Line Shelving/Live Storage Racks
System Platforms
Dynamic Storage
Automated Logistics Solutions
Logistics Systems
Customer Service & Support
Software



Galvanized
Locking brackets
Spacers
Support beams

Fork spacers
Gentian Blue
RAL 5010

Accessories



Spacers

Two single racks positioned one behind the other are connected with spacers to form double-sided racks. Galvanized. The length of the spacers is the difference between the rack depth and the loading aid/loading unit, plus 100 mm.

Item	Distance (mm)	Order no.
D 50 F	50	2004339
D 100 F	100	2004340
D 150 F	150	2004341
D 200 F	200	2004342
D 250 F	250	2004343
D 300 F	300	2004344
D 350 F	350	2004345
D 400 F	400	2004346
D 450 F	450	2004347
D 500 F	500	2004348



Angled profile support beams for pallet and bin storage

For pickup of loading aids in pallet racks. Galvanized. Pallets and bins stored along the length and bins without a secure contact area on longitudinal beams require one pair of support beams per loading aid. Locking brackets are required to fix pallets and bins and secure them against shifting on the longitudinal beams (as shown above).

Item	Frame depth (mm)	Pallet/bin depth (mm)	Load (kg)	Order no. (pair)
Without back upturn				
TA-W-085-10	850	800	1,000	2005432
TA-W-110-10	1,100	1,000	1,000	2005434
TA-W-125-10	1,250	1,200	1,000	2005435
With back upturn 30 mm				
TA-W-085-10-A	850	800	1,000	2005436
TA-W-110-10-A	1,100	1,000	1,000	2005438
TA-W-125-10-A	1,250	1,200	1,000	2005439

Locking brackets for support beams

Fixing options for support beams, designed for Euro, industrial or DIN cage pallets. Galvanized.

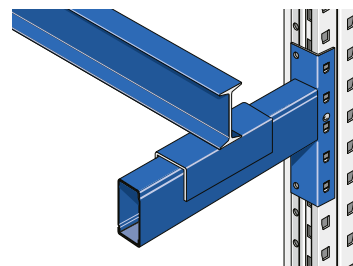
Item	Clear bay width (mm)	Order no. (pair)
AW19-R2	1,900	1017360
AW22-R2	2,200	1017361
AW27-R2	2,700	1017362
AW29-R2	2,900	1017364
AW36-R2	3,600	1017365
AW39-R2	3,900	1017366



Support beams

The support beams are placed between the main beams. Galvanized. The load values specified apply for evenly distributed loads. They are not suitable for point loads.

Item	Frame depth (mm)	Max. pallet weight with 2 support beams (kg)	Order no.
TA-C-085-10	850	1,000	1018754
TA-C-110-10	1,100	1,000	1018756



Fork spacers

For the storage of wooden panels, laminated cores, totes, bins or other large storage goods. Gentian Blue, RAL 5010. Ground clearance for forklifts 100 mm, max. load per piece 2,000 kg with an evenly distributed load.

Item	For frame depth (mm)	Order no.
QU 851	850	1003221
QU 1101	1,100	1016803
QU 1251	1,250	1003223

Accessories

Shelving Systems

Wide Span Racks

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Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software



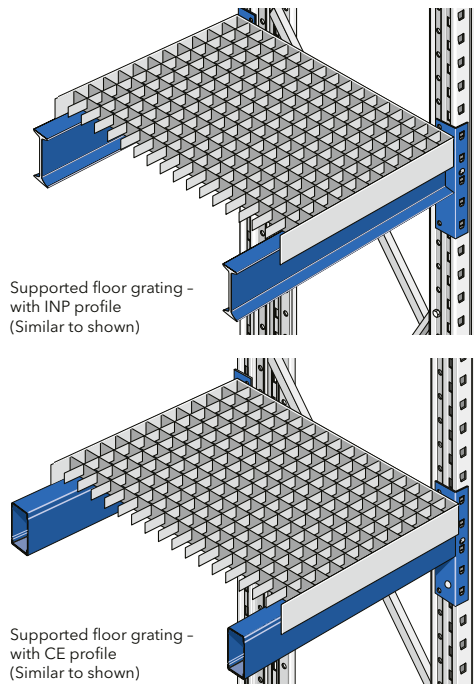
Floor grating
Sheet steel panels

Galvanized

Floor grating

Supported by and fixed to the longitudinal beams. Mesh size 66 x 44 mm. Galvanized. From clear bay width 2,200 mm in two parts. The load values specified apply for evenly distributed loads. Variants listed are not suitable for point loads. Further versions on request.

Item	Frame depth (mm)	Clear bay width (mm)	Support member height (mm)	Compartment load (kg)	Order no.
Supported floor grating for INP and CE beam profiles					
FGA19-085-30-630X	850	1,900	30	1,200	2006496
FGA19-110-35-640X	1,100	1,900	35	1,500	2006523
FGA19-125-40-640X	1,250	1,900	40	1,700	2006530
FGA22-085-30-630X	850	2,200	30	1,400	2006497
FGA22-110-35-640X	1,100	2,200	35	1,800	2006524
FGA22-125-40-640X	1,250	2,200	40	2,000	2006531
FGA27-085-30-630X	850	2,700	30	1,700	2006498
FGA27-110-35-640X	1,100	2,700	35	2,200	2006525
FGA27-125-40-640X	1,250	2,700	40	2,500	2006532
FGA29-085-30-630X	850	2,900	30	1,800	2006499
FGA29-110-35-640X	1,100	2,900	35	2,300	2006526
FGA29-125-40-640X	1,250	2,900	40	2,700	2006533
FGA33-085-30-630X	850	3,300	30	2,100	2006520
FGA33-110-35-640X	1,100	3,300	35	2,700	2006527
FGA33-125-40-640X	1,250	3,300	40	3,000	2006534
FGA36-085-30-630X	850	3,600	30	2,200	2006521
FGA36-110-35-640X	1,100	3,600	35	2,900	2006528
FGA36-125-40-640X	1,250	3,600	40	3,300	2006535
FGA39-085-30-630X	850	3,900	30	2,400	2006522
FGA39-110-35-640X	1,100	3,900	35	3,200	2006529
FGA39-125-40-640X	1,250	3,900	40	3,600	2006536



Sheet steel panels

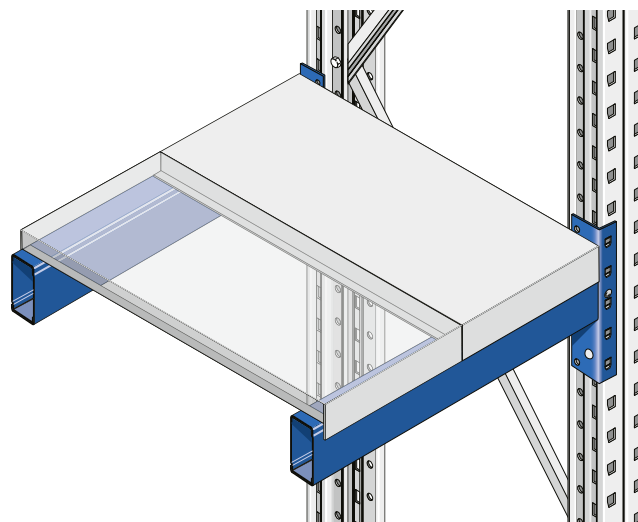
C-shaped bevel. Galvanized. Fixed along depth by front overlap over the beam. Can be used individually or in sets to create closed covers. The load values specified apply for evenly distributed loads.

Clear bay width (mm)	Panel width (mm)	No. 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)	No. of panels
2,900	300	9
	200	1
3,300	300	11
3,600	300	12
3,900	300	13

Item	For frame depth (mm)	Load (kg)	Order no.
Panel width 200 mm			
FPA 20-085-40-40X	850	680	1003781
FPA 20-110-40-40X	1,100	550	1018788
FPA 20-125-40-40X	1,250	460	1003783

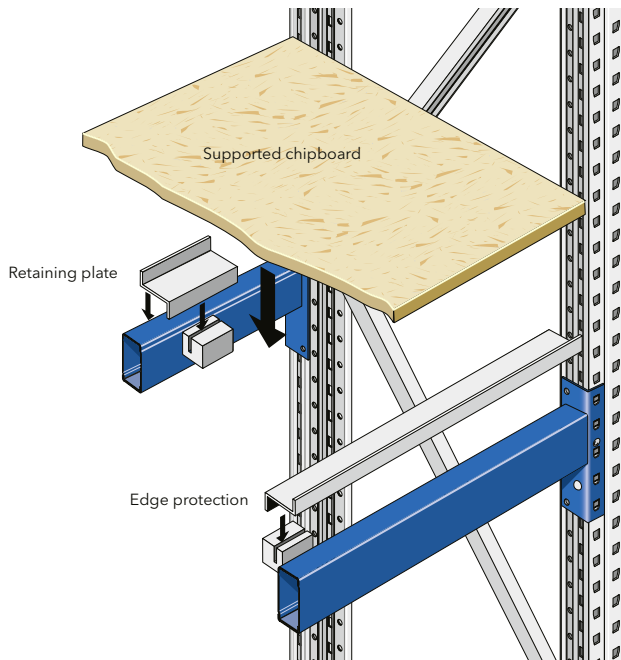
Item	For frame depth (mm)	Load (kg)	Order no.
Panel width 300 mm			
FPA 30-085-40-30X	850	340	1003777
FPA 30-085-40-50X		700	1003785
FPA 30-110-40-30X	1,100	200	1018789
FPA 30-110-40-50X		630	1018091
FPA 30-125-40-30X	1,250	190	1003779
FPA 30-125-40-50X		500	1003787



Accessories

Chipboard

Supported by longitudinal beams with INP or CE profile. Fixed against shifting with retaining plates. From clear bay width 3,300 mm in two parts. The load values specified apply for evenly distributed loads. Variants listed are not suitable for point loads. Further versions on request. Surface: natural.



Edge protection

For chipboard 38 mm and INP/CE longitudinal beams including spacer blocks. Galvanized.

Item	Clear bay width (mm)	Order no.
KN 1924	1,900	1003956
KN 2224	2,200	1003230
KN 2724	2,700	1003231
KN 2924	2,900	1003232
KN 3324	3,300	1003239
KN 3624	3,600	1003241
KN 3924	3,900	1003242

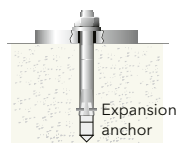
Retaining plate

For chipboard 38 mm and INP/CE longitudinal beams. Galvanized. Four retaining plates each are needed for clear bay widths 1,900 to 2,900 mm, and eight each for clear bay widths 3,300 to 3,900 mm.

Item	PU	Order no.
FSHB 24	Retaining plate, including spacer block (plastic) 1 pc.	1003228

Floor anchors

The frame needs to be anchored in order to ensure the stability of the pallet racks. M10 expansion anchors are used for a normal C20/25 concrete floor. For floors containing magnesium or where conformity with the German Federal Water Act (WHG) is required please speak to our specialist consultants.



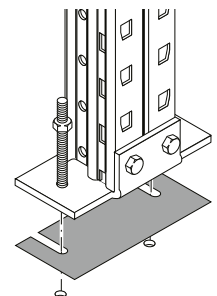
Item	Order no.
BA 10 SL	M10 expansion anchor 1031632
BA 10 VA	M10 adhesive anchor 1031633

Item	Frame depth (mm)	Clear bay width (mm)	Compartment load (kg)	Order no.
38 mm thick, normal density for INP and CE beam profiles				
FSA 19-085-38-NX	850	1,900	1,200	1033666
FSA 19-110-38-NX	1,100	1,900	900	1036350
FSA 19-125-38-NX	1,250	1,900	600	1033786
FSA 22-085-38-NX	850	2,200	1,400	1032579
FSA 22-110-38-NX	1,100	2,200	1,000	1036241
FSA 22-125-38-NX	1,250	2,200	700	1032607
FSA 27-085-38-NX	850	2,700	1,800	1032580
FSA 27-110-38-NX	1,100	2,700	1,200	1036243
FSA 27-125-38-NX	1,250	2,700	900	1032608
FSA 29-085-38-NX	850	2,900	1,900	1032581
FSA 29-110-38-NX	1,100	2,900	1,300	1036245
FSA 29-125-38-NX	1,250	2,900	1,000	1032609
FSA 33-085-38-NX	850	3,300	2,200	1032582
FSA 33-110-38-NX	1,100	3,300	1,500	1036247
FSA 33-125-38-NX	1,250	3,300	1,100	1032610
FSA 36-085-38-NX	850	3,600	2,400	1032583
FSA 36-110-38-NX	1,100	3,600	1,700	1036249
FSA 36-125-38-NX	1,250	3,600	1,200	1032611
FSA 39-085-38-NX	850	3,900	2,600	1032584
FSA 39-110-38-NX	1,100	3,900	1,800	1036251
FSA 39-125-38-NX	1,250	3,900	1,300	1032612

Item	Frame depth (mm)	Clear bay width (mm)	Compartment load (kg)	Order no.
38 mm thick, high density for INP and CE beam profiles				
FSA 19-085-38-HX	850	1,900	2,100	1033696
FSA 19-110-38-HX	1,100	1,900	1,300	1036390
FSA 19-125-38-HX	1,250	1,900	1,000	1033816
FSA 22-085-38-HX	850	2,200	2,400	1032586
FSA 22-110-38-HX	1,100	2,200	1,500	1036242
FSA 22-125-38-HX	1,250	2,200	1,100	1032614
FSA 27-085-38-HX	850	2,700	3,000	1032587
FSA 27-110-38-HX	1,100	2,700	1,900	1036244
FSA 27-125-38-HX	1,250	2,700	1,400	1032615
FSA 29-085-38-HX	850	2,900	3,200	1032588
FSA 29-110-38-HX	1,100	2,900	2,000	1036246
FSA 29-125-38-HX	1,250	2,900	1,500	1032616
FSA 33-085-38-HX	850	3,300	3,700	1032589
FSA 33-110-38-HX	1,100	3,300	2,300	1036248
FSA 33-125-38-HX	1,250	3,300	1,700	1032617
FSA 36-085-38-HX	850	3,600	4,000	1032590
FSA 36-110-38-HX	1,100	3,600	2,500	1036250
FSA 36-125-38-HX	1,250	3,600	1,900	1032618
FSA 39-085-38-HX	850	3,900	4,000	1032591
FSA 39-110-38-HX	1,100	3,900	2,800	1036252
FSA 39-125-38-HX	1,250	3,900	2,000	1032619

Base shim

To compensate for unevenness in the floor, galvanized.



Item	Thickness (mm)	Support profile	Order no.
AP 60.91	1	P73 - P95	1003071



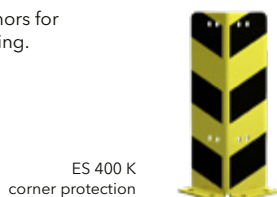
- Version as per FEM 10.2.16
- Safety regulations

Stationary racks that are operated with non-track-bound industrial trucks must be sufficiently protected at the corners, including transit routes, against damage to the rack frames.

Safety Accessories

Corner protection

Stable, angular profile, including anchors for fixing to hall floor. Signal Yellow marking.



ES 400 K corner protection

Item	Height (mm)	Order no.
ES 400 K	400	1062829

Drive-in protection

To protect rack supports from damage by industrial trucks, 155 mm wide, U-shaped, including four floor anchors. Colza Yellow, RAL 1021.

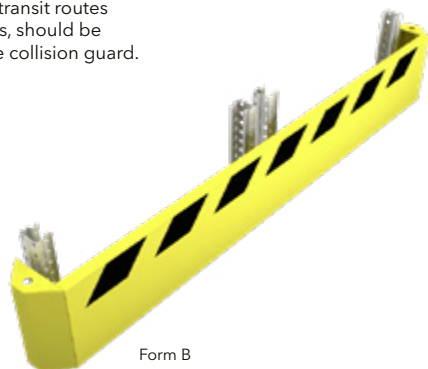


Drive-in protection

Item	Height (mm)	For support profile	Order no.
AS 400/6-1	400	P 73 - P 95	1062742
AS 400/6-2	400	P 113 - P 215	1062743

Collision guards

Sections of the pallet racks that are especially at risk, e.g., transit routes or high-traffic passages, should be protected with a stable collision guard. Signal Yellow marking.



Form B

Form B

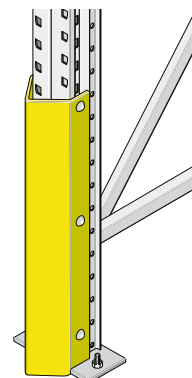
400 mm high, 265 mm wide, including floor anchors.

Item	For frame depth (mm)	Order no.
RS4B 085	850	1063210
RS4B 110	1,100	1018929
RS4B 125	1,250	1018930
RS4B 180	1,800	1018931
RS4B 220	2,200	1018932
RS4B 230	2,300	1018933
RS4B 235	2,350	1018934
RS4B 240	2,400	1018935
RS4B 245	2,450	1018936
RS4B 250	2,500	1018937
RS4B 255	2,550	1018938
RS4B 260	2,600	1018939

Support protection

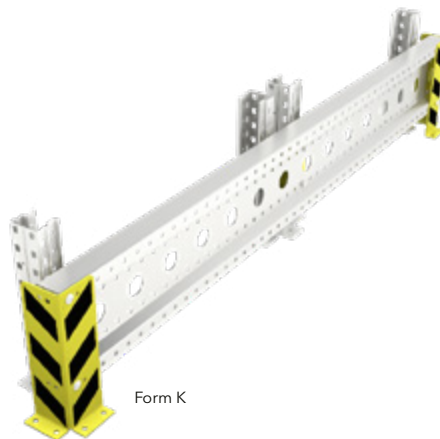
To reinforce the front rack supports and protect against damage, 400 mm and 750 mm high, including fixing kit. Colza Yellow, RAL 1021.

Plastic version on request.



Support protection

Item	For support width (mm)	Height (mm)	For support profile	Order no.
STS 75-6-400	75	400	P 75	1063294
STS 75-6-750		750	P 75	1063295
STS 90-6-400	90	400	P 90	1063298
STS 90-6-750		750	P 90	1063299
STS 100-6-400	100	400	P 100	1063288
STS 100-6-750		750	P 100	1063289
STS 120-6-400	120	400	P 120	1063290
STS 120-6-750		750	P 120	1063291



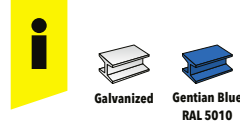
Form K

Form K

With a stable C-sigma profile, 400 mm high, 159 mm wide, including floor anchors; additional support in center from length 1,800 mm.

Item	For frame depth (mm)	Order no.
RS 0854 K	850	1063185
RS 1104 K	1,100	1063187
RS 1254 K	1,250	1063188
RS 1804 K	1,800	1063196
RS 2204 K	2,200	1063198
RS 2304 K	2,300	1063199
RS 2354 K	2,350	1063200
RS 2404 K	2,400	1063201
RS 2454 K	2,450	1063202
RS 2504 K	2,500	1063203
RS 2554 K	2,550	1063204
RS 2604 K	2,600	1063205

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Safety Accessories for Pallet Racks

Cladding for mesh back panels

Galvanized. Racks that are freestanding at the back must be equipped with features to prevent loading units or storage goods from falling. Observe the applicable safety regulations or ask our specialist consultants.

The mesh back panels consist of mesh mats in defined lengths and heights. They are combined based on the rack height and clear bay width. The mesh size is 100 x 50 mm. One GRM mesh segment consists of two C profiles each and the required mesh mats. Depending on the number of mesh mats, console kits (including fixing kit), mesh connectors and compensating rods are needed - please order separately.

Spacing: 180 mm outer edge of rack supports to inner edge of GRM;
220 mm outer edge of rack supports to outer edge of GRM.

Order notice

Mesh and fixing elements do not project out beyond the frame; the upper edge of the mesh back panel is identical to the rack height. All frames in a rack line must have the same height. Loading units must be secured against falling off the side.

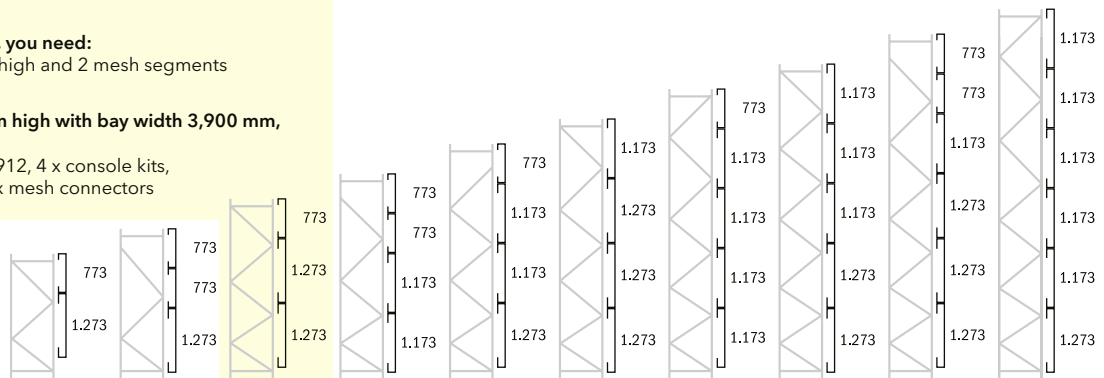
Number of mesh connectors

Rack height	Clear bay width						
	1,900	2,200	2,700	2,900	3,300	3,600	3,900
2,500	1	1	2	2	2	3	2
3,000	2	2	4	4	4	6	4
3,600	2	2	4	4	4	6	4
4,100	3	3	6	6	6	9	6
4,700	3	3	6	6	6	9	6
5,200	3	3	6	6	6	9	6
5,800	4	4	8	8	8	12	8
6,300	4	4	8	8	8	12	8
6,900	5	5	10	10	10	15	10
7,400	5	5	10	10	10	15	10

Example order

For a rack 3,600 mm high, you need:
1 mesh segment 723 mm high and 2 mesh segments 1,273 mm high.

For a pallet rack 3,600 mm high with bay width 3,900 mm, you need:
1 x GRM-3907, 2 x GRM-3912, 4 x console kits, 4 x compensation rods, 4 x mesh connectors

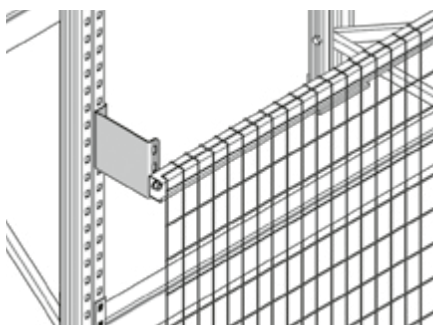


Rack height in mm	2,500	3,000	3,600	4,100	4,700	5,200	5,800	6,300	6,900	7,400
Lower dimensions in mm	345	45	45	45	45	45	45	45	45	45
Number of required mesh segments										
H 773 mm	1	2	1	2	1	-	1	-	2	-
H 1,173 mm	-	-	-	2	2	1	4	3	1	5
H 1,273 mm	1	1	2	-	1	3	-	2	3	1
No. of console kits	3	4	4	5	5	5	6	6	7	7
No. of compensation rods	2	2	4	4	4	4	6	6	6	6

Item	Clear bay width (mm)	Order no.
Mesh segment height 773 mm		
GRM-0907	900	1015307
GRM-1107	1,100	1015308
GRM-1307	1,300	1015309
GRM-1907	1,900	1015582
GRM-2207	2,200	1015317
GRM-2707	2,700	1015318
GRM-2907	2,900	1015319
GRM-3307	3,300	1015320
GRM-3607	3,600	1015321
GRM-3907	3,900	1015322

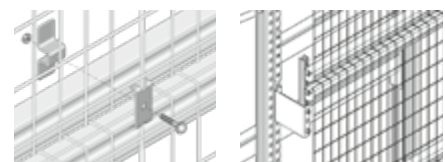
Item	Clear bay width (mm)	Order no.
Mesh segment height 1,173 mm		
GRM-0911	900	1015310
GRM-1111	1,100	1015311
GRM-1311	1,300	1015312
GRM-1911	1,900	1015606
GRM-2211	2,200	1015325
GRM-2711	2,700	1015326
GRM-2911	2,900	1015327
GRM-3311	3,300	1015328
GRM-3611	3,600	1015329
GRM-3911	3,900	1015330

Item	Clear bay width (mm)	Order no.
Mesh segment height 1,273 mm		
GRM-0912	900	1015313
GRM-1112	1,100	1015314
GRM-1312	1,300	1015315
GRM-1912	1,900	1015630
GRM-2212	2,200	1015333
GRM-2712	2,700	1015334
GRM-2912	2,900	1015335
GRM-3312	3,300	1015336
GRM-3612	3,600	1015337
GRM-3912	3,900	1015338



Console kits (incl. fixing kit)

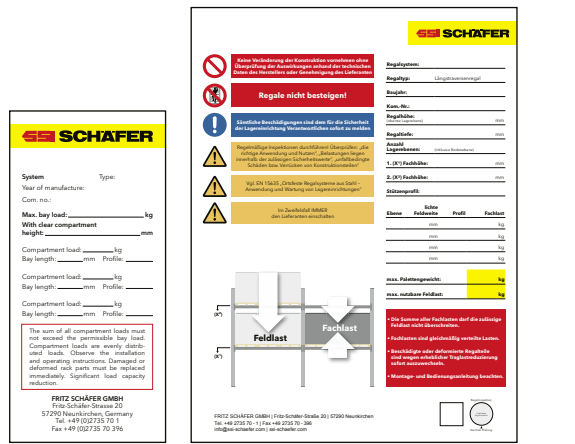
Item	Length (mm)	Frame depth (mm)	Order no.
Without including push-through protection			
GRM-K2-060-S	60	850, 1,250	1017353
GRM-K2-130-S	130	1,100	1017354
Including push-through protection			
GRM-K2-180-S	180	850, 1,250	1017355
GRM-K2-340-S	340	1,100	1017358



Item	Order no.
Mesh connector (see table above)	
GRM-GVS	1015848
Compensation rods (incl. fixing kit)	
GRM-ASS	1015295

Labeling requirement

The regulations of the trade associations require rack facilities to be labeled with all the necessary load specifications.



Safety Accessories for Pallet Racks

Payload signs

Item	W x H (mm)	Material	Order no.
PRTS 7050 LTR	450 x 600	Aluminum, incl. fixing kit	V980014*
TS 0615	60 x 150	PVC adhesive film	1003252*

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

Front retainers

To protect loading units from falling off the sides, 500 mm high, incl. fixing kit.

Surface: Galvanized.

Notice: Front retainers cannot be used with mesh back panels.

Item	Frame profile (mm)	Frame depth (mm)	Order no.
AN 68	75	850	1001330
AN 98	90	850	1001329
AN 611	75	1,100	1017987
AN 911	90	1,100	1019063
AN 62	75	1,250	1001332
AN 92	90	1,250	1001328

Push-through protection

Galvanized. Push-through protection is required when double-sided racks are used and the distance between the loading aid or loading unit is less than 100 mm. On single racks, push-through protection prevents loading units from falling. A profile 60 or 100 mm wide can be used depending on requirements.

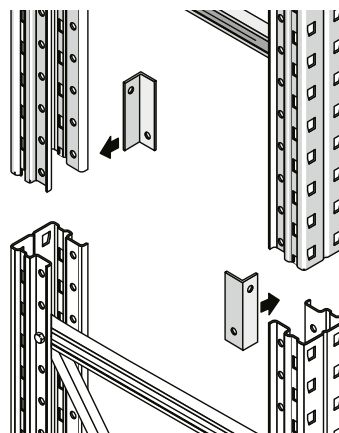
Item	Clear bay width (mm)	Profile	Order no.
DSC060FW1900	1,900	C 60/40	1017130
DSC060FW2300	2,300	C 60/40	1017134
DSC060FW2700	2,700	C 60/40	1017138
DSC100FW2900	2,900	C 100/60	1017140
DSC100FW3300	3,300	C 100/60	1017144
DSC100FW3600	3,600	C 100/60	1017147
DSC100FW3900	3,900	C 100/60	1017150



Accessory for push-through protection on single racks

Galvanized. For single racks, one console kit for a distance of 100 mm is required as a retainer for each push-through protection.

Item	For frame depth (mm)	Order no.
DSF-K110	1,100	2004365



Accessories for push-through protection on double-sided racks

For double-sided rack lines, two spacers are required as retainers for each push-through protection.

For more information, see **page C10**.

Pallet Flow Racks



Pallet flow rack warehouses are used as buffer warehouses for shipping, production and incoming and outgoing goods. The racks are usually operated with front and reach trucks. Hand pallet trucks can also be used at the lowest level on the unloading side. The First In, First Out (FIFO) principle is observed. Storage goods with expiration dates or

product batches are easier to monitor. The gravity roller conveyor version can be adapted to the respective storage goods using different roller spacing and brake rollers. Further advantages of this storage system include the optimal use of space and volume and the option of integration in the automated material flow.

The pallets can also be operated across multiple floors using an additional picking level or tunnel.

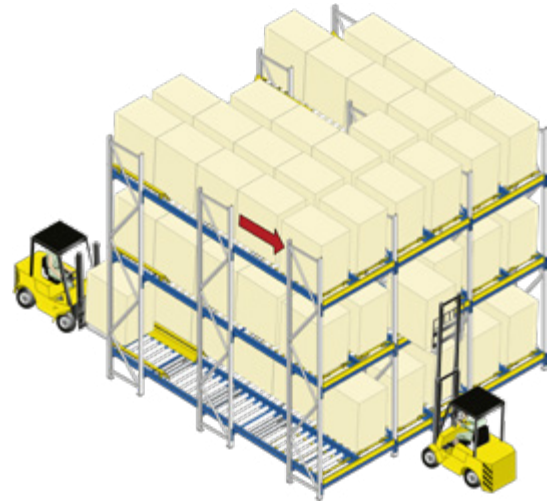
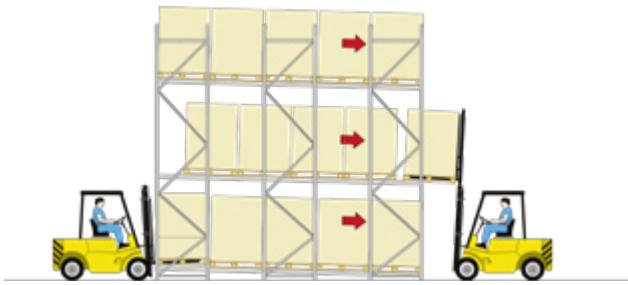


Further information
on request

Loading Flow and Pushback Racks

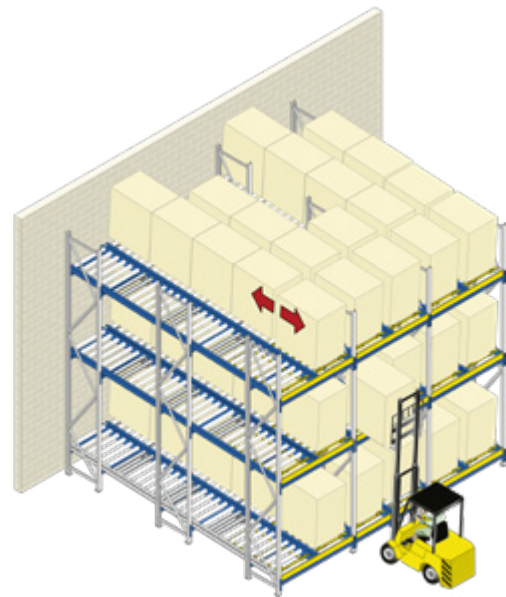
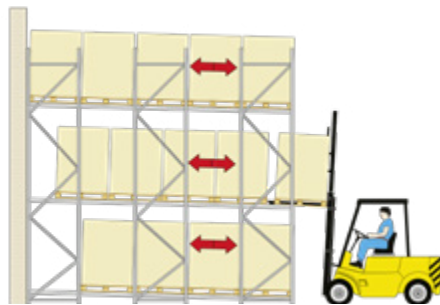
Pallet flow rack warehouse

The flow rack warehouse consists of gravity roller conveyors generally set up as flow levels. This results in economical use of the space, because multiple channels are positioned next to each other and the room height can be fully exploited. The storage and retrieval sides are separated; the roller conveyors take care of transport and storage.



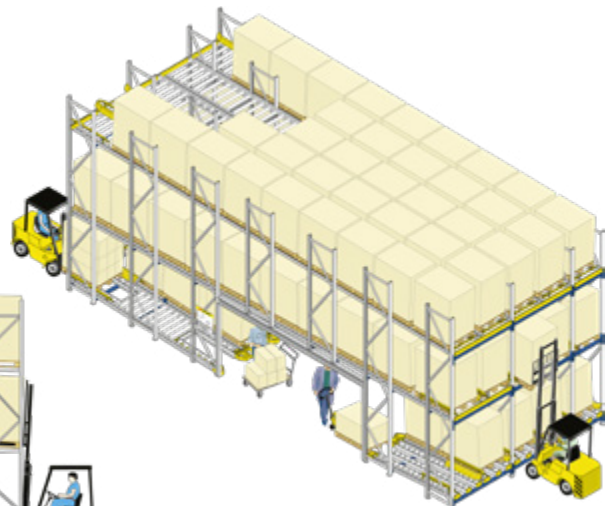
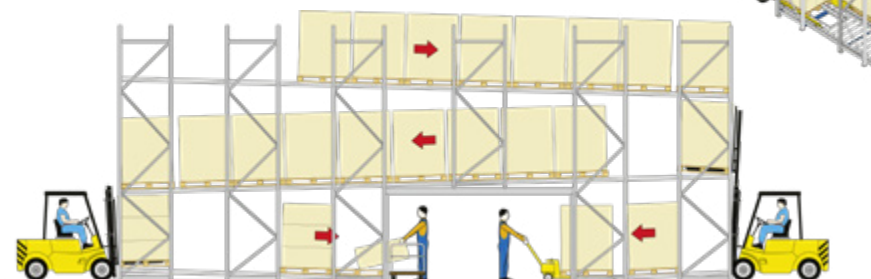
Pallet pushback rack warehouse

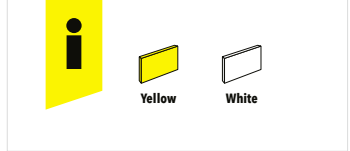
Pallet pushback warehouses are space-saving buffer warehouses with just one operator aisle. When this warehouse approach is used, the storage goods are pushed against the tilt of the roller conveyor in one channel using a loading device. During retrieval, the pallets that follow are slowed by the forklift picking process. Omitting brake rollers and separators presents a cost-effective solution. All items are always available on the operator's side of the rack. Pallet pushback rack warehouses follow the LIFO principle (Last In, First Out).



Pallet flow rack warehouse with picking tunnel

Pallet flow racks are an important component in warehouse logistics, since the connection of buffer warehouses and picking is implemented consistently. Flow racks with picking tunnels follow the FIFO (First In, First Out) principle. Replenishment and picking aisles are separated and large item volumes are possible. This approach is ideal for applications, for example in the drinks industry or for electrical device manufacturers.





Warehouse and Storing Position Labeling

The potential for accelerating logistics processes and therefore permanently reducing costs is extraordinarily high.

Both manual and IT-controlled warehouses can be optimized with processes and systems of visual warehouse organization.

Employee productivity is significantly increased thanks to fast and secure storage, retrieval and relocation. Pickers and forklifts are guided to the right storing position in no time.

The solution is an intuitive control system that is quick and easy to implement. The investment in visual warehouse organization is particularly low as a result.

Systematic numbering of all storing positions - the "number code" - is the basis and requirement for efficient warehouse organization.

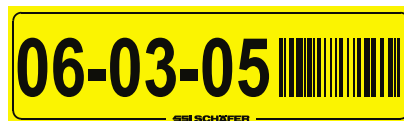
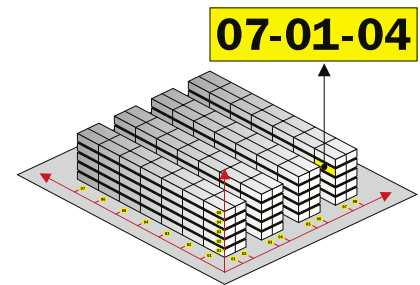
Each storing position is given unique, unchanging coding that is composed of at least three coordinates: the rack line, longitudinal position and height position.

More information can be printed, e.g., warehouse areas, check digits, barcodes, position arrows.

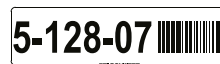
Signs, labels, card holders and floor markings are available with a wide range of variation in fonts, color scheme and sizes.

If you would like a version that is not listed here, please ask.

i Further versions
on request



From 2,000 pieces on request



From 2,000 pieces on request

Storing position labels

Self-adhesive polyethylene film, color: yellow, printed content: black, up to 8 characters, additionally with barcode. Minimum ordered quantity 100 pieces.

Item	W x H (mm)	Order no.
Quantity scale: 1-1,999 pieces		
R SK 1230 SGB	192 x 38	1032538
R SK 1438 SGB	224 x 38	1032539
R SK 2265 SGB	380 x 65	1032540

Storing position labels

Self-adhesive polyethylene film, color: white, printed content: black, up to 8 characters, additionally with barcode. Minimum ordered quantity 100 pieces.

Item	W x H (mm)	Order no.
Quantity scale: 1-1,999 pieces		
R SK 1230 SWB	192 x 38	1032541
R SK 1438 SWB	224 x 38	1032542
R SK 2265 SWB	380 x 65	1032543

