

*Extract of the
general catalogue,*

CHAPTER D

INDIVIDUAL SOLUTIONS FROM A SINGLE SOURCE

*Systems diversity for warehouses,
factories and workshops*



GENERAL CATALOGUE

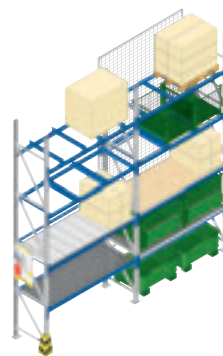
Pallet racking – a modular system with unlimited applications

The latest pallet racking system from SSI SCHAEFER is designed to be compatible with Euro and industrial pallet dimensions. Whether for flat pallets, mesh boxpallets or other loading units – crosswise racking for single- or multi-location storage systems permit considerable flexibility for rapid goods handling. Whether in a wholesale warehouse or in a spare parts store, in the electronics and machine engineering industry or in automobile assembly – longitudinal beam racking can be applied in all these sectors.

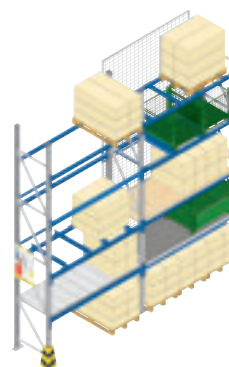
Longitudinal beam single location racking systems are especially suitable where the stored goods all have the same base dimensions, but different heights. Drive-in Racking is the ideal storage solution if very large quantities of the same product are to be stored.

Using the appropriate system components, pallets and containers in all different shapes and sizes can be optimally stored.

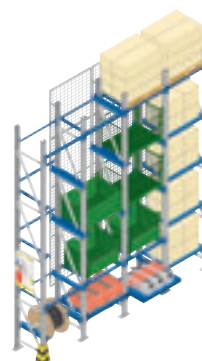




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Mobile racking systems Page **D30**

Pallet live storage racking Page **D32**

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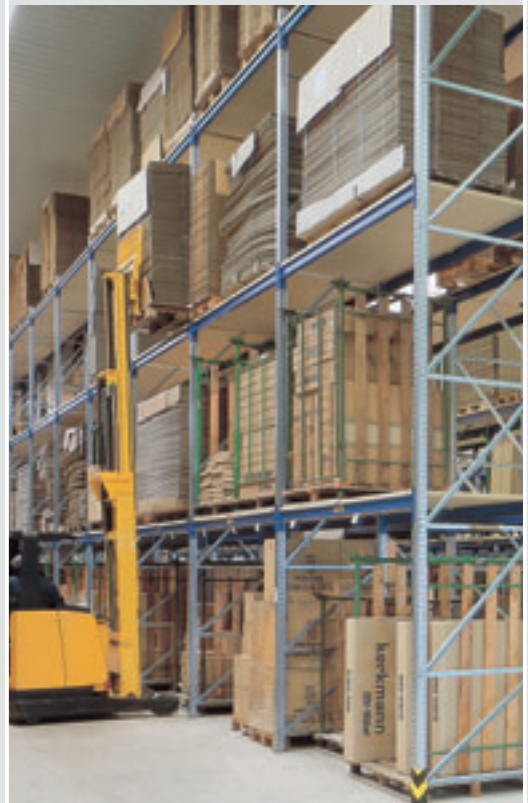


Pallet racking overview

	Longitudinal beam racking PR 350	Longitudinal beam racking PR 600
Applications	Pallet storing suitable for medium to high-volume products with medium to high loads, e.g. in manufacturing areas and for material provisioning	Pallet storing suitable for medium to high-volume products with medium to high loads, e.g. for logistic centres or distribution warehouses
Advantages	<ul style="list-style-type: none"> ▶ Solid and robust construction ▶ Simple assembly with few components 	<ul style="list-style-type: none"> ▶ Lightweight and economic construction ▶ Stable due to its special design ▶ Dimensional stability
Design	▶ Welded frames with longitudinal beams, 3 upright profiles in 3 frame depths each, 10 frame heights, 2 beam types, 7 bay lengths	▶ Bolted frames with longitudinal beams, 4 upright profiles in 3 frame depths each, 10 frame heights, 2 beam types, 7 bay lengths
Crosswise connection	▶ Bolt-free system	▶ Bolt-free system
Perforation	▶ 50:50 mm	▶ 50:50 mm
Upright widths	▶ 70, 80, 100 mm	▶ 75, 90, 100, 120 mm
Frame load capacity	▶ Up to 15000 kg	▶ Up to 30000 kg
Horizontal load capacity	▶ Up to 4500 kg per pair	▶ Up to 4500 kg per pair
Frame finish	▶ Painted RAL 7037, grey	▶ Galvanised
Beam finish	▶ Painted RAL 5010, gentian blue	▶ Painted RAL 5010, gentian blue



D4



D8

from pages

Front-to-back racking PR 600

Pallet storing suitable for medium to high-volume products with medium to high loads, e.g. spare parts warehousing

- ▶ Lightweight and economic construction
- ▶ Stable due to its special design
- ▶ Dimensional stability
- ▶ Easy to adjust

▶ Bolted frames with horizontal braces, 3 frame depths, 10 frame heights, 3 support types, 3 bay lengths

▶ Bolt-free system

▶ 50:50 mm

▶ 75, 90, 100 mm

▶ Up to 15000 kg

▶ Up to 1500 kg per pair

▶ Galvanised

▶ Painted RAL 5010, gentian blue



D12



Necessary safety requirements for racking acc. to BRG 234 (formerly ZH 1/428)

1.1 Frame height

at least 500 mm higher than the top beam

1.2 Drive-through areas

have to be covered (chipboard, mesh grating). The height clearance has to be at least 2000 mm

1.3 Safety clearance

with a safety clearance of less than 100 mm between the pallets in a double sided row end stops are to be in place

1.4 Frame top

for all free standing frames, a corner protection must be installed. This also applies to drive-through areas

1.5 Single bay

if a single shelf unit is placed free standing in the area and one side is not intended for loading or unloading, then a security device must be installed to prevent stored goods from falling down, e.g. a rear mesh on this side

1.6 Front-to-back stacking

the pallets or container must be secured, e.g. by depth supports, chipboards or timber floorings. This does not apply to pallets with cross girders running in depth direction

1.7 Load signs

fall racking installations are to be furnished with the relevant load signs



Technical regulations for pallet racking

2.1 Racking row

one racking row must consist of at least 3 shelving bays

2.2 Beam levels

at least 2 beam levels for each racking bay

2.3 Opening heights

the opening heights may not deviate any more than 200 mm from each other. The maximum opening height is 2500 mm

2.4 Concrete floor requirements

the minimal quality of the concrete floor required: B25 acc. to DIN 1045. Concrete thickness 200 mm

Pallet racking PR 350

Longitudinal beam racking is suitable for universal use for all applications in the warehouse. Using the appropriate system components, pallets and containers in all different shapes and sizes can be located.

The longitudinal beam racking PR 350 demonstrates SSI SCHAEFER's commitment to continually updating its impressive

range of racking systems. The simple modular system has been tried and tested for over fifteen years and has proven itself as absolutely safe in practical use.

Compatibility with other systems and a comprehensive range of accessories enables ongoing expansion of existing installations SSI SCHAEFER provides a 10 year after-purchase guarantee.



GREY

GENTIAN BLUE



Frame

RAL 7037



Longitudinal beams

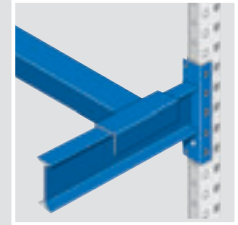
RAL 5010

- ▶ **Highest load bearing capacity**
frame load bearing capacity up to 15000 kg (at least 2 beam pairs INP 100 per bay and 5 bays per racking row), beam load bearing capacity 4500 kg per pair
- ▶ **Compatible with SSI SCHAEFER racking system PR 400**
- ▶ **Stable due to its special design**
- ▶ **High quality materials**
- ▶ **Perforation**
hole pitch 50:50 mm
- ▶ **Upright width**
70, 80, 100 mm
- ▶ **Simple assembly**
with few components
- ▶ **Welded frames**
- ▶ **Large foot plate**
- ▶ **Sturdy construction**
with material thickness up to 4 mm

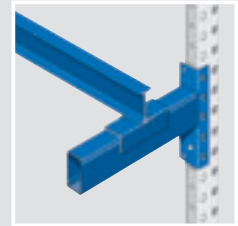


Frames and longitudinal beams PR 350

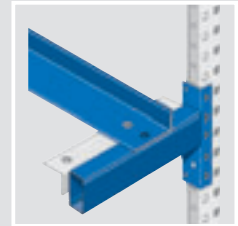
U-section front-to-back supports
Page D18



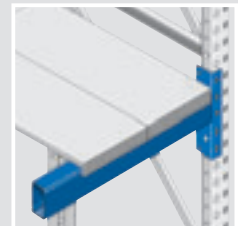
U-section front-to-back supports



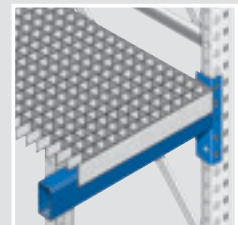
Fork spacer



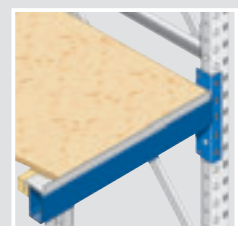
Angle profile front-to-back support with fixing angle



Steel decking panels, laid on top



Mesh panel, laid on top



Chipboard with edge protectors, laid on top

Mesh panels
Page D22

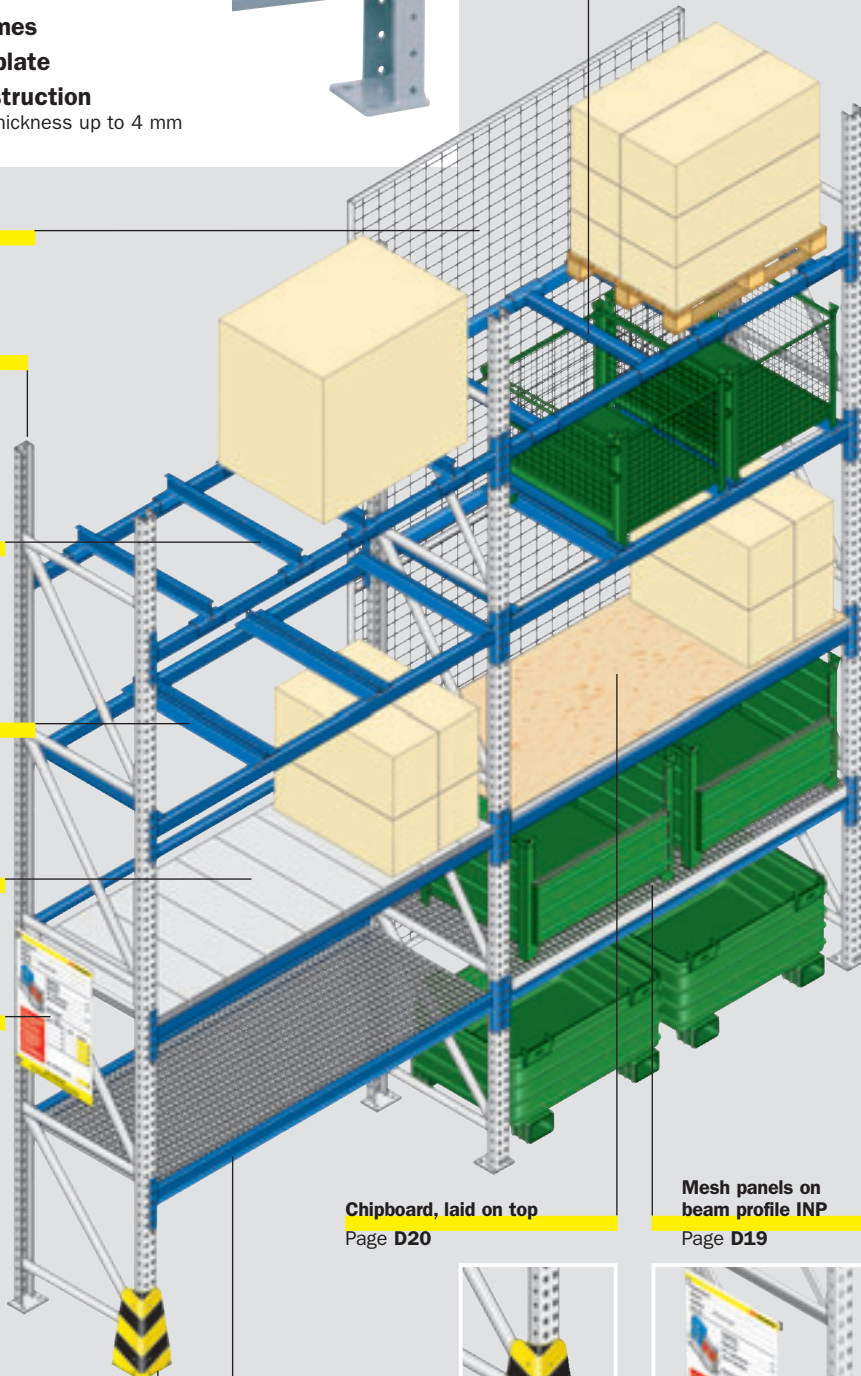
Frame
Page D6

Fork spacer
Page D18

Angle profile front-to-back support
Page D18

Steel panels on beamprofile INP
Page D19

Load sign
Page D23

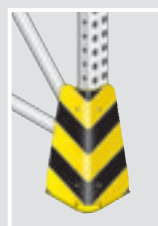


Chipboard, laid on top
Page D20

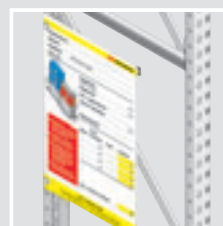
Mesh panels on beam profile INP
Page D19

Corner protector
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Longitudinal beams
Page D7



Corner protector



Load sign

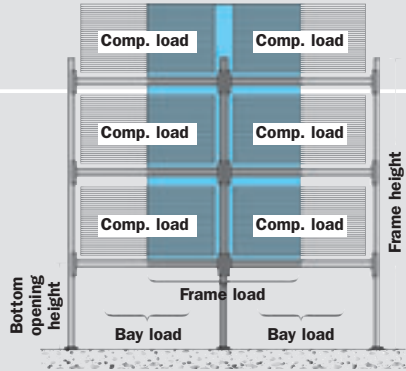
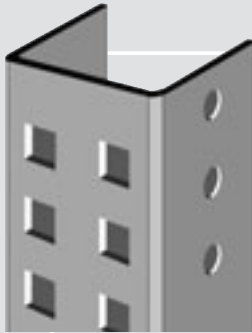


GREY



RAL 7037

Frames



► Frame load bearing capacity

the guaranteed frame load bearing capacity depends on the compartment height and beam profile. The values given relate to racks with at least two pairs of evenly spaced beams per bay and racking rows of at least five bays, using INP 100 longitudinal beam profiles. Different values are produced depending on the horizontal beam profile.

► Upright profiles

U-section front-to-back supports. Welded with horizontal and diagonal struts to form a stable frame.

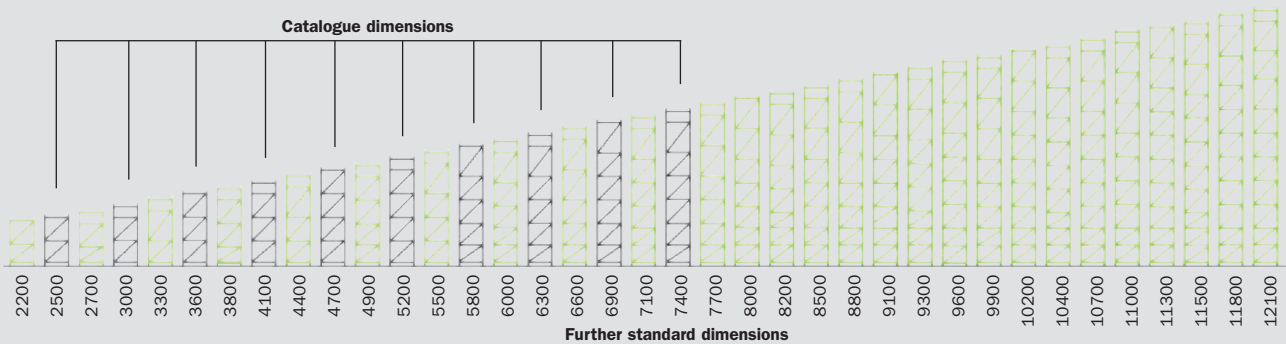
50:50 mm perforations.

Large footplates ensure even distribution of load to floor.

Please consult our specialists for advice.

Opening height	Frame load bearing capacity		
	U 70 profile	U 80 profile	U 100 profile
1000 mm	5500 kg	10600 kg	12500 kg
1250 mm	5200 kg	10000 kg	12000 kg
1500 mm	4600 kg	9600 kg	11800 kg
1750 mm	4000 kg	9300 kg	11600 kg
2000 mm	3650 kg	8000 kg	10000 kg
2250 mm	3300 kg	7200 kg	9000 kg
2500 mm	2900 kg	6000 kg	7500 kg

Catalogue dimensions



Further standard dimensions

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.
U 70 profile											
RN 70258	2500	850	126030	RN 70251	2500	1050	126390	RN 70252	2500	1250	126750
RN 70308	3000	850	126090	RN 70301	3000	1050	126450	RN 70302	3000	1250	126810
RN 70368	3600	850	126150	RN 70361	3600	1050	126510	RN 70362	3600	1250	126870
RN 70418	4100	850	126210	RN 70411	4100	1050	126570	RN 70412	4100	1250	126930
RN 70478	4700	850	126270	RN 70471	4700	1050	126630	RN 70472	4700	1250	126990
RN 70528	5200	850	126330	RN 70521	5200	1050	126690	RN 70522	5200	1250	127050
U 80 profile											
RN 80258	2500	850	126040	RN 80251	2500	1050	126400	RN 80252	2500	1250	126760
RN 80308	3000	850	126100	RN 80301	3000	1050	126460	RN 80302	3000	1250	126820
RN 80368	3600	850	126160	RN 80361	3600	1050	126520	RN 80362	3600	1250	126880
RN 80418	4100	850	126220	RN 80411	4100	1050	126580	RN 80412	4100	1250	126940
RN 80478	4700	850	126280	RN 80471	4700	1050	126640	RN 80472	4700	1250	127000
RN 80528	5200	850	126340	RN 80521	5200	1050	126700	RN 80522	5200	1250	127060
RN 80588	5800	850	127120	RN 80581	5800	1050	127480	RN 80582	5800	1250	127840
RN 80638	6300	850	127180	RN 80631	6300	1050	127540	RN 80632	6300	1250	127900
RN 80698	6900	850	127240	RN 80691	6900	1050	127600	RN 80692	6900	1250	127960
RN 80748	7400	850	127300	RN 80741	7400	1050	127660	RN 80742	7400	1250	128020
U 100 profile											
RN 10368	3600	850	126170	RN 10361	3600	1050	126530	RN 10362	3600	1250	126890
RN 10418	4100	850	126230	RN 10411	4100	1050	126590	RN 10412	4100	1250	126950
RN 10478	4700	850	126290	RN 10471	4700	1050	126650	RN 10472	4700	1250	127010
RN 10528	5200	850	126350	RN 10521	5200	1050	126710	RN 10522	5200	1250	127070
RN 10588	5800	850	127130	RN 10581	5800	1050	127490	RN 10582	5800	1250	127850
RN 10638	6300	850	127190	RN 10631	6300	1050	127550	RN 10632	6300	1250	127910
RN 10698	6900	850	127250	RN 10691	6900	1050	127610	RN 10692	6900	1250	127970
RN 10748	7400	850	127310	RN 10741	7400	1050	127670	RN 10742	7400	1250	128030



RAL 5010

► Longitudinal beams

with welded 5-hook clips. Guarantee a positive connection to the uprights.

Upright lug pitch 50:50 mm adjustable.

Supplied with 2 safety pins per unit (included) to prevent the beam from being lifted out accidentally.

The loads given are calculated on uniformly distributed load.

The order numbers refer to a beam.

► System dimensions of longitudinal beam racks

Storage front-to-back

Pallet dimensions	Storage depth	Max. shelf depth
800 x 1200 mm	1200 mm	1050 mm
1000 x 1200 mm	1200 mm	1050 mm
1200 x 1200 mm	1200 mm	1050 mm

Storage side by side

Pallet dimensions	Storage depth	Max. shelf depth
800 x 1200 mm	800 mm	850 mm
1000 x 1200 mm	1000 mm	1050 mm



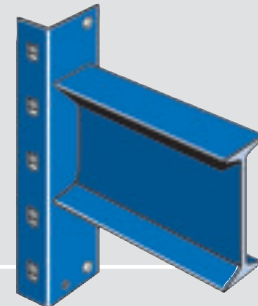
Longitudinal beams

Accessories for PR 350

from page D17

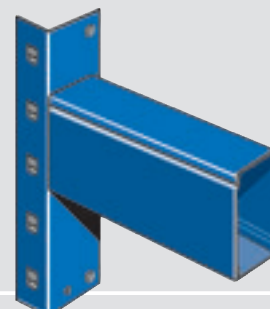
Longitudinal INP beams

Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.
Length 1800 mm				Length 2200 mm				Length 2700 mm			
TRN1-180-08-I	3000	INP 80	323560	TRN1-220-08-I	2500	INP 80	323600	TRN1-270-08-I	2100	INP 80	323650
TRN1-180-10-I	4500	INP 100	323720	TRN1-220-10-I	4200	INP 100	323760	TRN1-270-10-I	3500	INP 100	323810
Length 2900 mm				Length 3300 mm				Length 3600 mm			
TRN1-290-08-I	1900	INP 80	323670	TRN1-330-08-I	1400	INP 80	323710	TRN1-360-10-I	2300	INP 100	323900
TRN1-290-10-I	3300	INP 100	323830	TRN1-330-10-I	2700	INP 100	323870	TRN1-360-12-I	3900	INP 120	324120
TRN1-290-12-I	4500	INP 120	324050	TRN1-330-12-I	4400	INP 120	324090	TRN1-390-10-I	2000	INP 100	323930
Length 3600 mm				Length 3900 mm							
TRN1-360-10-I	2300	INP 100	323900	TRN1-390-10-I	2000	INP 100	323930	TRN1-390-12-I	3400	INP 120	324150
TRN1-360-12-I	3900	INP 120	324120	TRN1-390-12-I	3400	INP 120	324150				



Longitudinal CE beams

Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.
Length 1800 mm				Length 2200 mm				Length 2700 mm			
TRN1-180-085-30 CE	3200	CE 80	324220	TRN1-220-085-30 CE	2500	CE 80	324230	TRN1-270-085-30 CE	1700	CE 80	324240
TRN1-180-105-30 CE	4200	CE 100	324260	TRN1-220-105-30 CE	3500	CE 100	324270	TRN1-270-105-30 CE	2600	CE 100	324280
TRN1-180-115-30 CE	4500	CE 110	324300	TRN1-220-115-30 CE	3900	CE 110	324310	TRN1-270-115-30 CE	3000	CE 110	324320
Length 2900 mm				Length 3300 mm				Length 3600 mm			
TRN1-290-085-30 CE	1500	CE 80	324250	TRN1-330-115-30 CE	2200	CE 110	324340	TRN1-360-115-30 CE	1900	CE 110	324350
TRN1-290-105-30 CE	2300	CE 100	324290	TRN1-330-125-30 CE	2600	CE 120	324380	TRN1-360-125-30 CE	2300	CE 120	324390
TRN1-290-115-30 CE	2700	CE 110	324330	TRN1-330-145-30 CE	3100	CE 140	312910	TRN1-360-145-30 CE	2700	CE 140	312940
TRN1-290-125-30 CE	3200	CE 120	324370								
TRN1-290-145-30 CE	3800	CE 140	312870								
Length 3600 mm				Length 3900 mm							
TRN1-360-115-30 CE	1900	CE 110	324350	TRN1-390-145-30 CE	2300	CE 140	312970				
TRN1-360-125-30 CE	2300	CE 120	324390								
TRN1-360-145-30 CE	2700	CE 140	312940								



PR 600 – the modern pallet racking system

The PR 600 racking system enables a variety of versatile configurations to be achieved. Almost all configurations can be accommodated – longitudinal beam racking, front-to-back racking and drive-in racking for maximum storage capacity occupying minimum space.

One advantage which shows itself later – the ability to adapt to changing circumstances. The frames are bolted for maximum load bearing capacity.

The modern racking system – a versatile modular system for individual solutions.



GALVANISED

GENTIAN BLUE



Frame



Longitudinal beams

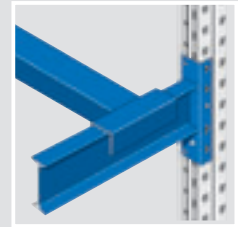
RAL 5010

- ▶ **Highest load bearing capacity**
frame load bearing capacity up to 30000 kg (at least 2 beam pairs INP 100 per bay and 5 bays per racking row), beam load bearing capacity 4500 kg per pair
- ▶ **Lightweight and economic construction**
- ▶ **Stable due to its special design**
- ▶ **High quality materials**
- ▶ **Dimensional stability**
- ▶ **Lug pitch**
Hole pitch 50:50 mm
- ▶ **Upright widths**
75, 90, 100, 120 mm
- ▶ **Easy set-up**
with few components
- ▶ **Bolted frames**

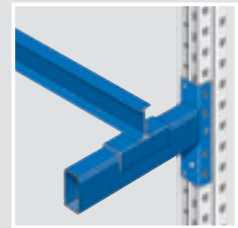


Frames and longitudinal beams PR 600

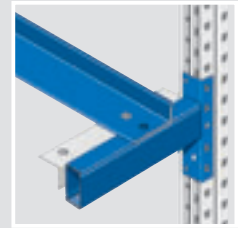
U-section front-to-back supports
Page D18



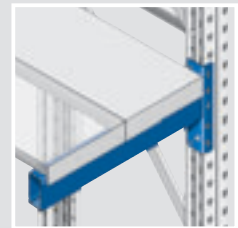
U-section front-to-back supports



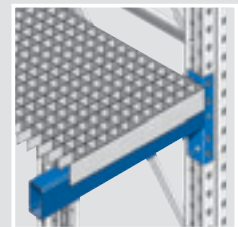
Fork spacer



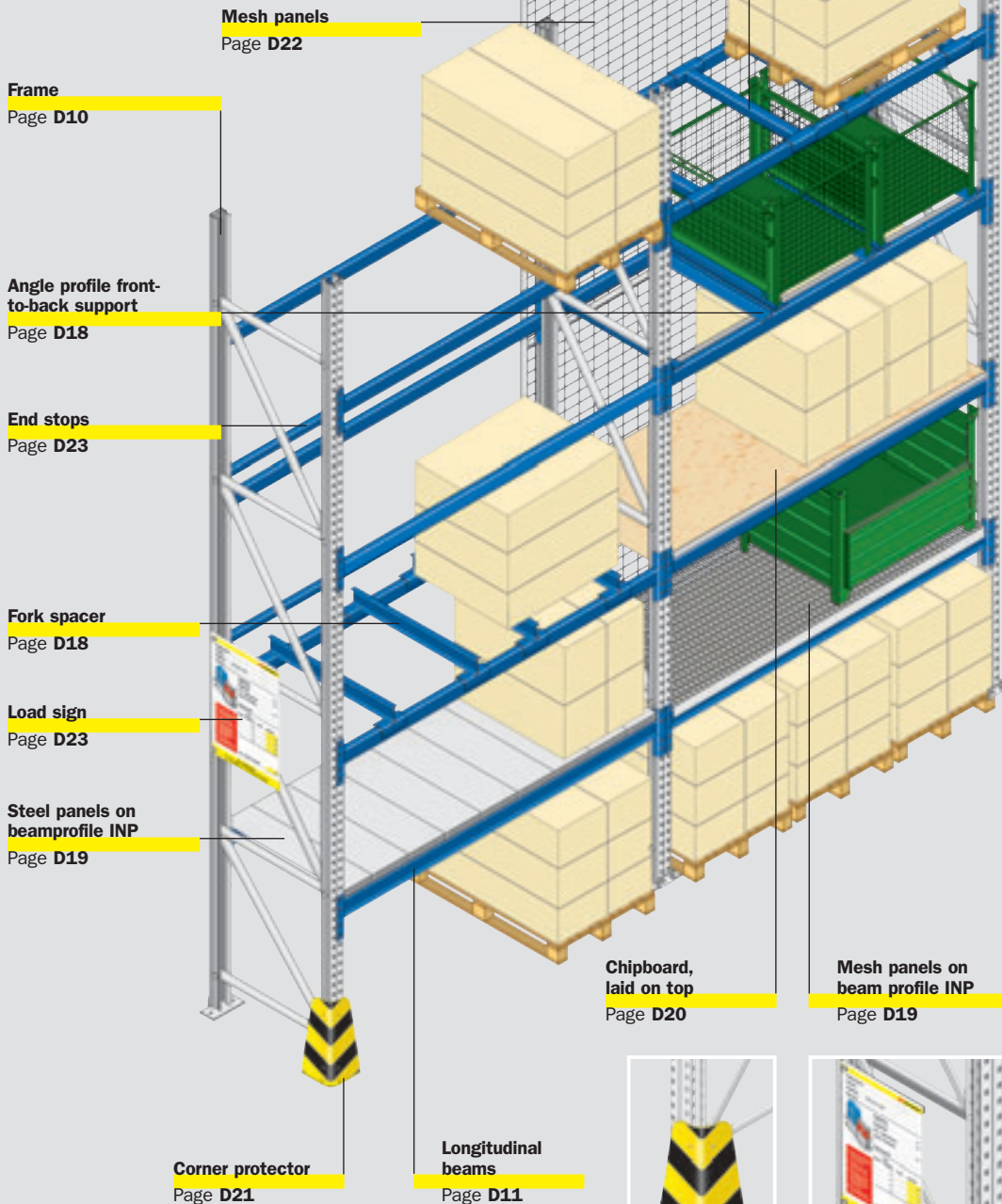
Angle profile front-to-back support with fixing angle



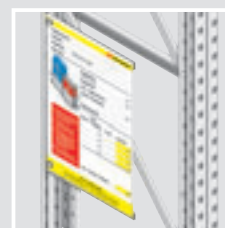
Steel decking panels, laid on top



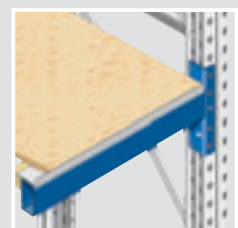
Mesh panel, laid on top



Corner protector



Load sign



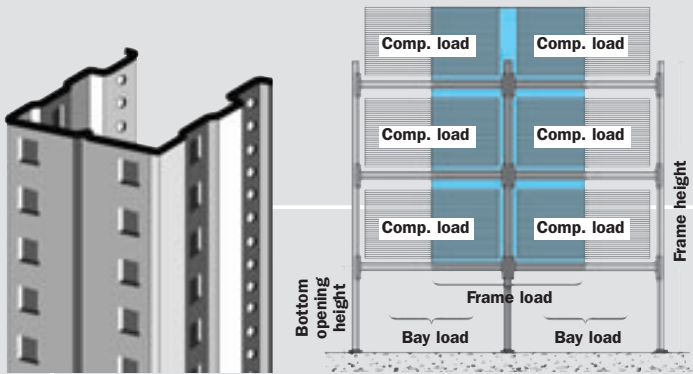
Chipboard with edge protectors, laid on top



GALVANISED



Frame PR 600



► Frame load bearing capacity

the guaranteed frame load bearing capacity depends on compartment height and beam profile. The values given relate to racks with at least two pairs of evenly spaced beams per bay and racking rows of at least five bays, using INP 100 longitudinal beam profiles. Different values are produced depending on the horizontal beam profile.

Please consult our specialists for advice.

► Upright profiles

the uprights are made from cold-rolled steel and are very rigid. These are then bolted to form the stable frame using horizontal and diagonal struts. Supplied unassembled.

50:50 mm perforations

Large footplates ensure even distribution of load to floor.

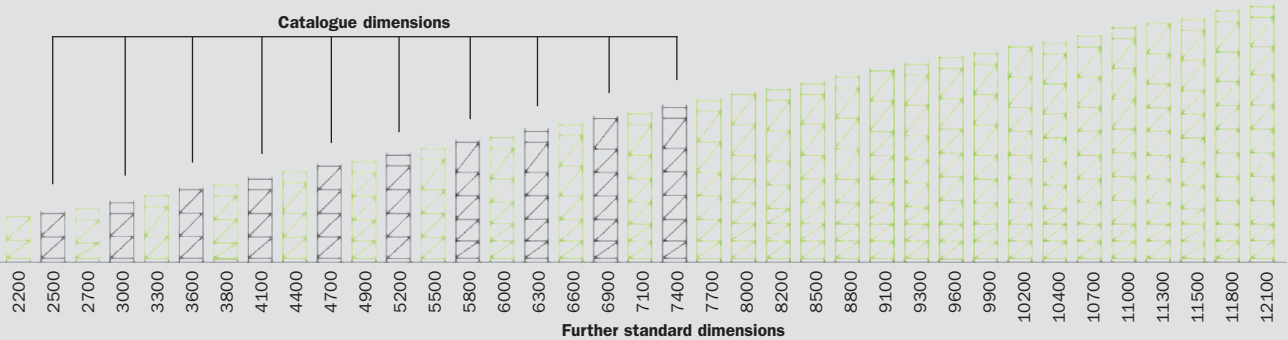


Further frame profiles

on request

	P 73 profile	P 93 profile	P 95 profile
Upright width	75 mm	90 mm	90 mm
Opening height	Frame load bearing capacity		
1000 mm	8350 kg	12000 kg	14100 kg
1250 mm	8100 kg	11750 kg	14000 kg
1500 mm	7800 kg	11500 kg	13200 kg
1750 mm	7600 kg	11000 kg	12500 kg
2000 mm	7000 kg	10000 kg	11000 kg
2250 mm	6000 kg	9500 kg	9900 kg
2500 mm	4300 kg	8000 kg	8600 kg

Catalogue dimensions



Further standard dimensions

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.
P 73 profile											
RV 730258	2500	850	135820	RV 730251	2500	1050	135880	RV 730252	2500	1250	135940
RV 730308	3000	850	135830	RV 730301	3000	1050	135890	RV 730302	3000	1250	135950
RV 730368	3600	850	135840	RV 730361	3600	1050	135900	RV 730362	3600	1250	135960
RV 730418	4100	850	135850	RV 730411	4100	1050	135910	RV 730412	4100	1250	135970
RV 730478	4700	850	135860	RV 730471	4700	1050	135920	RV 730472	4700	1250	135980
RV 730528	5200	850	135870	RV 730521	5200	1050	135930	RV 730522	5200	1250	135990
P 93 profile											
RV 930258	2500	850	136380	RV 930251	2500	1050	137490	RV 930252	2500	1250	138600
RV 930308	3000	850	136400	RV 930301	3000	1050	137510	RV 930302	3000	1250	138620
RV 930368	3600	850	136420	RV 930361	3600	1050	137530	RV 930362	3600	1250	138640
RV 930418	4100	850	136440	RV 930411	4100	1050	137550	RV 930412	4100	1250	138660
RV 930478	4700	850	136460	RV 930471	4700	1050	137570	RV 930472	4700	1250	138680
RV 930528	5200	850	136480	RV 930521	5200	1050	137590	RV 930522	5200	1250	138700
RV 930588	5800	850	136500	RV 930581	5800	1050	137610	RV 930582	5800	1250	138720
RV 930638	6300	850	136520	RV 930631	6300	1050	137630	RV 930632	6300	1250	138740
RV 930698	6900	850	136540	RV 930691	6900	1050	137650	RV 930692	6900	1250	138760
RV 930748	7400	850	136560	RV 930741	7400	1050	137670	RV 930742	7400	1250	138780
P 95 profile											
RV 950368	3600	850	139380	RV 950361	3600	1050	139750	RV 950362	3600	1250	140120
RV 950418	4100	850	139400	RV 950411	4100	1050	139770	RV 950412	4100	1250	140140
RV 950478	4700	850	139420	RV 950471	4700	1050	139790	RV 950472	4700	1250	140160
RV 950528	5200	850	139440	RV 950521	5200	1050	139810	RV 950522	5200	1250	140180
RV 950588	5800	850	139460	RV 950581	5800	1050	139830	RV 950582	5800	1250	140200
RV 950638	6300	850	139480	RV 950631	6300	1050	139850	RV 950632	6300	1250	140220
RV 950698	6900	850	139500	RV 950691	6900	1050	139870	RV 950692	6900	1250	140240
RV 950748	7400	850	139520	RV 950741	7400	1050	139890	RV 950742	7400	1250	140260



RAL 5010

▶ Longitudinal beams

with welded 4-hook clips. Guarantee a positive connection to the uprights.

Upright lug pitch 50:50 adjustable.

Supplied with 2 safety pins per unit (included) to prevent the beam from being lifted out accidentally.

The loads given are calculated on uniformly distributed load.

The order numbers refer to a beam.

▶ System dimensions of longitudinal beam racks

Storage front-to-back

Pallet dimensions	Storage depth	Shelf depth
800 x 1200 mm	1200 mm	1050 mm
1000 x 1200 mm	1200 mm	1050 mm
1200 x 1200 mm	1200 mm	1050 mm

Storage side by side

Pallet dimensions	Storage depth	Shelf depth
800 x 1200 mm	800 mm	850 mm
1000 x 1200 mm	1000 mm	1050 mm



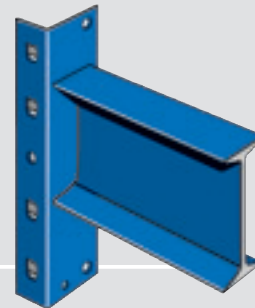
Longitudinal beams

i Compatible with **WR 600 longspan racking**
Chapter C, from page C1

i Accessories for PR 600
from page D17

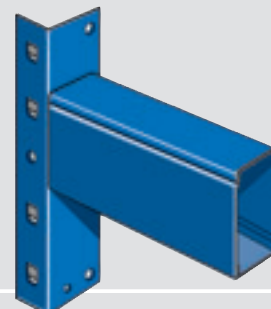
Longitudinal INP beams

Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.
Length 1800 mm				Length 2200 mm				Length 2700 mm			
TRV1-180-08-I	3000	INP 80	321500	TRV1-220-08-I	2500	INP 80	321540	TRV1-270-08-I	2100	INP 80	321590
TRV1-180-10-I	4500	INP 100	321660	TRV1-220-10-I	4200	INP 100	321700	TRV1-270-10-I	3500	INP 100	321750
Length 2900 mm				Length 3300 mm				Length 3600 mm			
TRV1-290-08-I	1900	INP 80	321610	TRV1-330-08-I	1400	INP 80	321650	TRV1-360-10-I	2300	INP 100	321840
TRV1-290-10-I	3300	INP 100	321770	TRV1-330-10-I	2700	INP 100	321810	TRV1-360-12-I	3900	INP 120	322060
TRV1-290-12-I	4500	INP 120	321990	TRV1-330-12-I	4400	INP 120	322030	TRV1-390-10-I	2000	INP 100	321870
Length 3900 mm											
TRV1-390-12-I	3400	INP 120	322090								



Longitudinal CE beams

Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.	Item	Load capacity/ pair (kg)	Profile type	Order no.
Length 1800 mm				Length 2200 mm				Length 2700 mm			
TRV1-180-085-30 CE	3200	CE 80	322160	TRV1-220-085-30 CE	2500	CE 80	322200	TRV1-270-085-30 CE	1700	CE 80	322250
TRV1-180-105-30 CE	4200	CE 100	322440	TRV1-220-105-30 CE	3500	CE 100	322480	TRV1-270-105-30 CE	2600	CE 100	322530
TRV1-180-115-30 CE	4500	CE 110	322720	TRV1-220-115-30 CE	3900	CE 110	322760	TRV1-270-115-30 CE	3000	CE 110	322810
Length 2900 mm				Length 3300 mm				Length 3600 mm			
TRV1-290-085-30 CE	1500	CE 80	322270	TRV1-330-115-30 CE	2200	CE 110	322870	TRV1-360-115-30 CE	1900	CE 110	322900
TRV1-290-105-30 CE	2300	CE 100	322550	TRV1-330-125-30 CE	2600	CE 120	323150	TRV1-360-125-30 CE	2300	CE 120	323180
TRV1-290-115-30 CE	2700	CE 110	322830	TRV1-330-145-30 CE	3100	CE 140	323430	TRV1-360-145-30 CE	2700	CE 140	323460
TRV1-290-125-30 CE	3200	CE 120	323110								
TRV1-290-145-30 CE	3800	CE 140	323390								
Length 3900 mm											
TRV1-390-145-30 CE	2300	CE 140	323490								



Front-to-back racking PR 600

SSI SCHAEFER's front-to-back racking is a special feature for single-location storage. There is no better solution for this kind of storage. The utilization of the room height is optimal, since no design features limit the height of the stored goods.

Front-to-back racking is particularly suitable for order picking from containers and pallets stored front-to-back. The load height can be used fully. The single-location construction is also an advantage for high-rise racking, especially when heavy goods have to be stored above each other.



GALVANISED

GENTIAN BLUE



Frame



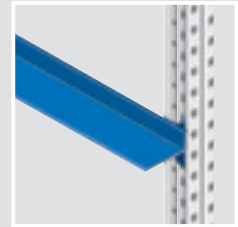
Longitudinal beams

RAL 5010

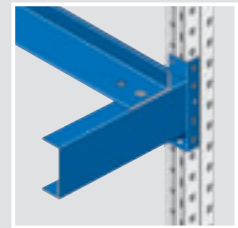
- ▶ **Highest load bearing capacity**
frame load bearing capacity up to 15000 kg (with 2 pairs of longitudinal beams per bay up to the 7400 mm frame height), with higher frames, 3 pairs of longitudinal beams should be used
- ▶ **Lightweight and economic construction**
- ▶ **Sturdy due to its special design**
- ▶ **High quality materials**
- ▶ **Dimensional stability**
- ▶ **Perforation**
hole pitch 50:50 mm
- ▶ **Upright width**
75, 90, 100 mm
- ▶ **Simple assembly**
with few components
- ▶ **Bolted frames**



Frames and front-to-back beams PR 600



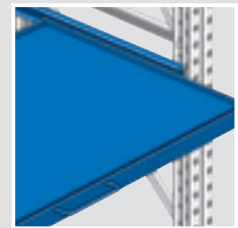
Front-to-back beam



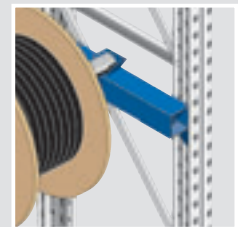
Front-to-back support with horizontal bracing



Shelf



Extendable shelf



Cable drum holder

Mesh panels
Page D22

Frame
Page D14

Horizontal braces
Page D14

End stops
Page D23

Front-to-back supports
Page D15

Load sign
Page D23

Cable drum holder
Page D17

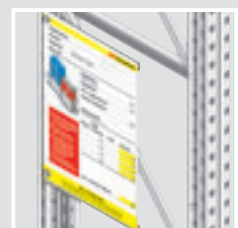
Corner protectors
Page D21

Extendable shelves
Page D16

Shelves
on request



Corner protector



Load sign



Front-to-back racking PR 600

Upright profiles

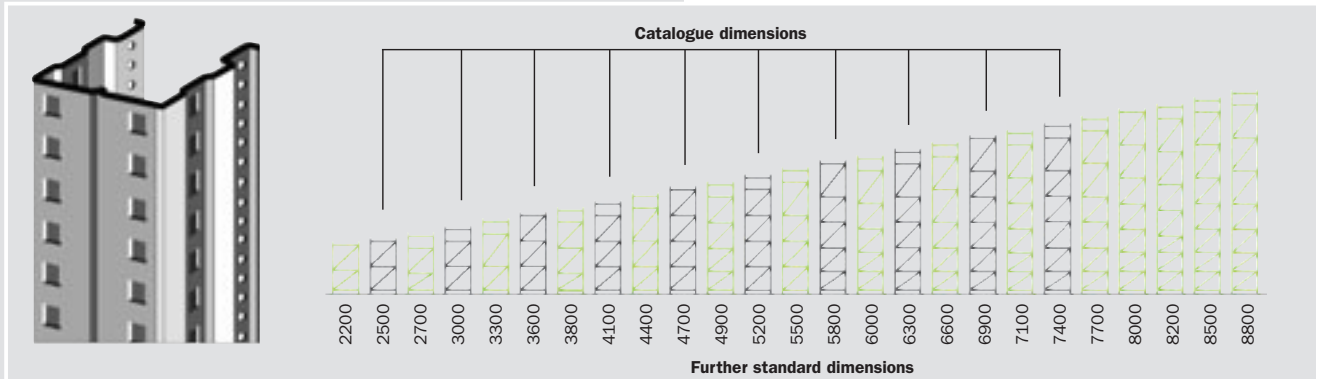
the uprights are made from cold-rolled steel and are very rigid. These are then bolted to form the stable frame using horizontal and diagonal struts.

50:50 mm perforations.

Large footplates ensure even distribution of load to floor. Unassembled.

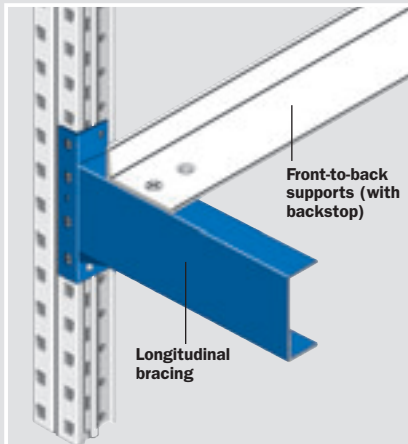
Different upright profiles

on request



P 95 profile

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.
RV 950368	3600	850	139380	RV 950361	3600	1050	139750	RV 950362	3600	1250	140120
RV 950418	4100	850	139400	RV 950411	4100	1050	139770	RV 950412	4100	1250	140140
RV 950478	4700	850	139420	RV 950471	4700	1050	139790	RV 950472	4700	1250	140160
RV 950528	5200	850	139440	RV 950521	5200	1050	139810	RV 950522	5200	1250	140180
RV 950588	5800	850	139460	RV 950581	5800	1050	139830	RV 950582	5800	1250	140200
RV 950638	6300	850	139480	RV 950631	6300	1050	139850	RV 950632	6300	1250	140220
RV 950698	6900	850	139500	RV 950691	6900	1050	139870	RV 950692	6900	1250	140240
RV 950748	7400	850	139520	RV 950741	7400	1050	139890	RV 950742	7400	1250	140260



Horizontal braces U 100

With 4-hook welded connectors to guarantee secure attachment to the uprights. Lug pitch 50:50 mm.

Includes four safety locking pins per pair to prevent accidental dislodging of the beam. With fixing holes for front-to-back supports.

Item	Length (mm)	Pallet/ Container depth (mm)	Order no.
LVU 090	900	800	116930
LVU 110	1100	1000	116940
LVU 130	1300	1200	116950

Angle profile front-to-back support

For storage of pallets and containers. Fixing to horizontal braces.

Cross section L 80/40/6

Load capacity up to 1000 kg

Without backstop

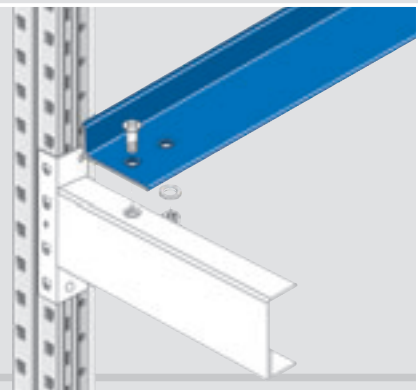
Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 85	850	800	155100
QA 105	1050	1000	155120
QA 125	1250	1200	155140

Cross section L 100/50/6

Load capacity up to 1500 kg

Without backstop

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 855	850	800	155160
QA 1055	1050	1000	155180
QA 1255	1250	1200	155200



With backstop 40 mm

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 85 A	850	800	155110
QA 105 A	1050	1000	155130
QA 125 A	1250	1200	155150

With backstop 50 mm

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 855 A	850	800	155170
QA 1055 A	1050	1000	155190
QA 1255 A	1250	1200	155210

Front-to-back supports

Front-to-back supports with welded connectors

Lug pitch 50:50 mm. The hooks are especially designed to fit securely in uprights to prevent any accidental movement.

Cross section L 80/40/6

Load capacity up to 1000 kg

Without backstop

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QTE 85	850	800	143520
QTE 105	1050	1000	143560
QTE 125	1250	1200	143600

With backstop

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QTE 85 A	850	800	143530
QTE 105 A	1050	1000	143570
QTE 125 A	1250	1200	143610

Cross section L 100/50/6

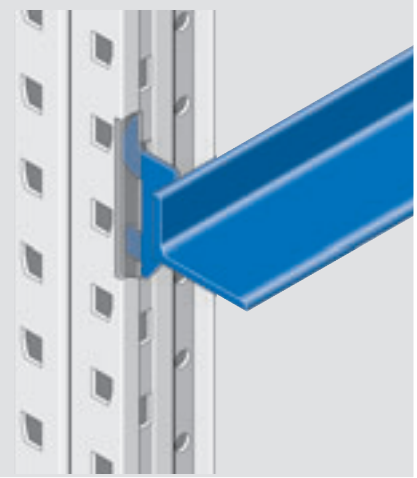
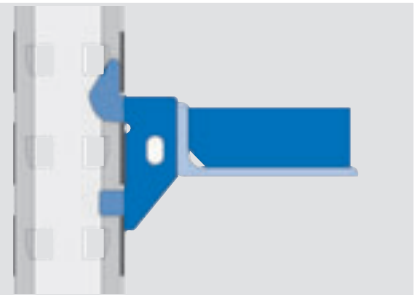
Load capacity up to 1500 kg

Without backstop

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QTE 855	850	800	143540
QTE 1055	1050	1000	143580
QTE 1255	1250	1200	143620

With backstop

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QTE 855 A	850	800	143550
QTE 1055 A	1050	1000	143590
QTE 1255 A	1250	1200	143630



Front-to-back supports with inclined position and folded profile

Lug pitch 50:50 mm. The hooks are especially designed to fit securely in uprights to prevent any accidental movement.

Cross section L 90/60/4

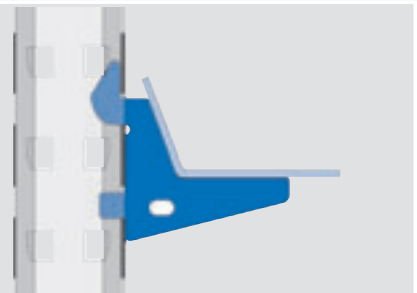
Without backstop

Item	Frame depth (mm)	Pallets/ Container depth (mm)	Load capacity (kg)	Order no.
QTE 859	850	800	1000	116960
QTE 1059	1050	1000	850	116970
QTE 1259	1250	1200	650	116980

Cross section L 90/60/4

With backstop

Item	Frame depth (mm)	Pallets/ Container depth (mm)	Load capacity (kg)	Order no.
QTE 859 A	850	800	1000	124660
QTE 1059 A	1050	1000	850	124670
QTE 1259 A	1250	1200	650	124680





Accessories for PR 600 (Front-to-back racking)



Heavy duty extendable shelves

Carefully welded steel construction. With precision steel ball bearing. Guide rails are bolted to the frames and are adjustable in increments of 50 mm. A double bolt secures the shelf, both when extended and retracted. Load bearing capacity of 1000 kg uniformly distributed load.

Heavy duty extendable shelves, 67% extendable

Item	Frame depth (mm)	Useable depth (mm)	Extension length (mm)	Load capacity (kg)	Order no.

Extendable shelves, steel coating, smooth

For racking with clear bay width of 900 mm and useful width of 800 mm.

AB 08.091	850	800	530	1000	143230
AB 12.091	1250	1200	830	1000	143260

For racking with clear bay width of 1300 mm and useful width of 1200 mm.

AB 08.131	850	800	530	1000	143290
AB 12.131	1250	1200	830	1000	143320

Extendable shelves, steel coating, 3 raised edges

For racking with clear bay width of 900 mm and useful width of 800 mm.

AB 08.092	850	800	530	1000	143240
AB 12.092	1250	1200	830	1000	143270

For racking with clear bay width of 1300 mm and useful width of 1200 mm.

AB 08.132	850	800	530	1000	143300
AB 12.132	1250	1200	830	1000	143330

Extendable shelves, chipboard cover

For racking with clear bay width of 900 mm and useful width of 800 mm.

AB 08.093	850	800	530	1000	143250
AB 12.093	1250	1200	830	1000	143280

For racking with clear bay width of 1300 mm and useful width of 1200 mm.

AB 08.133	850	800	530	1000	143310
AB 12.133	1250	1200	830	1000	143340

Heavy duty extendable shelves, 100% extendable

Item	Frame depth (mm)	Useable depth (mm)	Extension length (mm)	Load capacity (kg)	Order no.

Extendable shelves, steel coating, smooth

For racking with clear bay width of 900 mm and useful width of 800 mm.

AB 08.091 V	850	800	800	1000	143800
AB 12.091 V	1250	1200	1200	1000	143860

For racking with clear bay width of 1300 mm and useful width of 1200 mm.

AB 08.131 V	850	800	800	1000	143830
AB 12.131 V	1250	1200	1200	1000	143890

Extendable shelves, steel coating, 3 raised edges

For racking with clear bay width of 900 mm and useful width of 800 mm.

AB 08.092 V	850	800	800	1000	143810
AB 12.092 V	1250	1200	1200	1000	143870

For racking with clear bay width of 1300 mm and useful width of 1200 mm.

AB 08.132 V	850	800	800	1000	143840
AB 12.132 V	1250	1200	1200	1000	143900

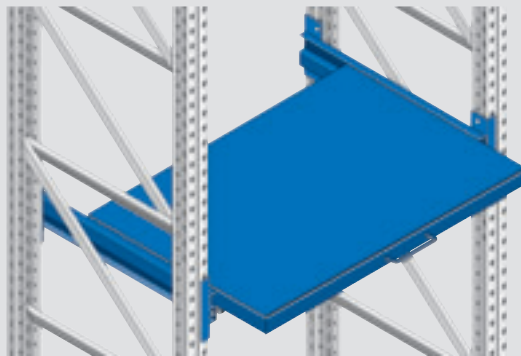
Extendable shelves, chipboard cover

For racking with clear bay width of 900 mm and useful width of 800 mm.

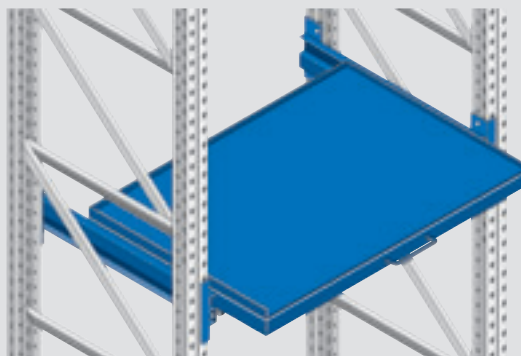
AB 08.093 V	850	800	800	1000	143820
AB 12.093 V	1250	1200	1200	1000	143880

For racking with clear bay width of 1300 mm and useful width of 1200 mm.

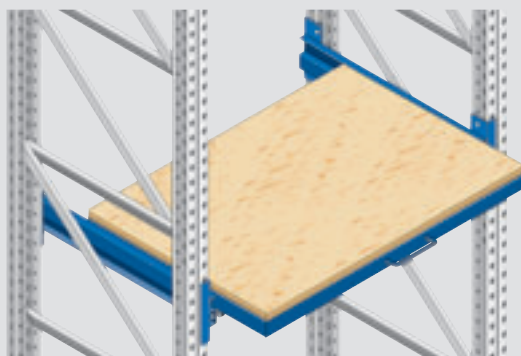
AB 08.133 V	850	800	800	1000	143850
AB 12.133 V	1250	1200	1200	1000	143910



Extendable shelves, steel coating, smooth



Extendable shelves, steel coating, 3 raised edges

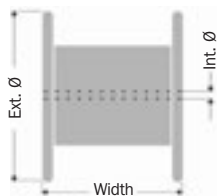


Extendable shelves, chipboard cover

Accessories

Cable drum sizes in accordance with DIN 46 391

Nominal size	Exterior Ø (mm)	Interior Ø (mm)	Width (mm)	Clear bay width (mm)	Max. load 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	1100	800
N 10	1050	80	710	1100	1000
N 12	1250	80	930	1300	1500



Cable drum axle

Cable drum axles made from round profile for insertion through the cable holder.

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 KB 0905	900	type KB	AK 33	N 5 - N 6	143750
TRA KM 0910	900	type KM	AK 48	N 7 - N 8	143920
TRA KB 0910	900	type KB	AK 48	N 7 - N 8	143760
TRA KM 1105	1100	type KM	AK 33	N 5 - N 6	143930
TRA KB 1105	1100	type KB	AK 33	N 5 - N 6	143770
TRA KM 1110	1100	type KM	AK 48	N 7 - N 8	143420
TRA KB 1110	1100	type KB	AK 48	N 7 - N 8	143780
TRA KM 1115	1100	type KM	AK 60	N 9 - N 10	143430
TRA KB 1115	1100	type KB	AK 60	N 9 - N 10	143790
TRA KM 1315	1300	type KM	AK 60	N 9 - N 12	143440
TRA KB 1315	1300	type KB	AK 60	N 9 - N 12	143950



Cable drum holder QT KM

Cable drum holder QT KB

Cable drum holder

Cable drum holders made from square profile are bolted to the uprights. Lug pitch 50 : 50 mm, axle positioned in hollow or with a friction lining to act as a brake and reduce the noise when extracting the cable.

Item	Frame depth (mm)	Design	For cable drums	Order no.
QT KM 6208	850	with hollow	N 5 - N 12	143370
QT KM 6210	1050	with hollow	N 5 - N 12	143390
QT KB 6208	850	with friction lining	N 5 - N 12	143380
QT KB 6210	1050	with friction lining	N 5 - N 12	143400

Cones

With positioning screw to centre the cable drum on the axle.

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

Floor anchors

Racking must be anchored to the floor to guarantee stability. M10 expansion anchors are used for normal B25 concrete floors and M10 threaded anchors for floors containing magnesium.

Item	Order no.	
BA 10 SL	M 10 Expansion anchor	67030
BA 10 VA	M 10 Threaded anchor	67390



Expansion anchor

Threaded anchor

Base shims

For pallet racking PR 350

Used to compensate for any floor unevenness, galvanised.

Item	Thickness (mm)	Support profile	Order no.
AP 35.81	1	U 70	151000
AP 35.82	2	U 70	151010
AP 35.81	1	U 80	151000
AP 35.82	2	U 80	151010
AP 35.11	1	U 100	151020
AP 35.12	2	U 100	151030

For pallet racking PR 600

For all upright profiles. Used to compensate for any floor unevenness, galvanised.

Item	Thickness (mm)	Order no.
AP 60.91	1	143150
AP 60.92	2	155010

Insulation plates

For pallet racking PR 350

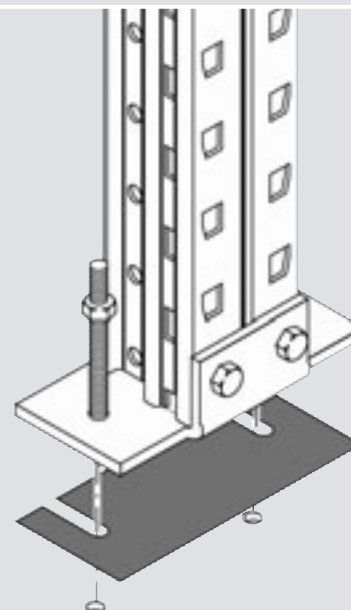
When racking is erected on floors containing magnesium, plastic insulation plates are necessary for each upright to prevent any corrosion.

Item	Thickness (mm)	Support profile	Order no.
IP 35.81	1	U 70	151040
IP 35.81	1	U 80	151040
IP 35.11	1	U 100	151050

For pallet racking PR 600

For all upright profiles. When racking is erected on floors containing magnesium, plastic insulation plates are necessary for each upright to prevent any corrosion.

Item	Thickness (mm)	Order no.
IP 60.91	1	155020





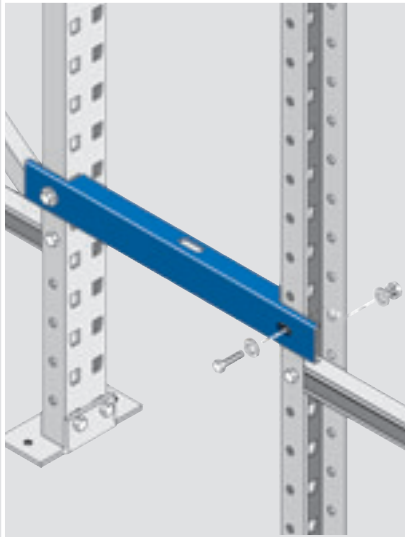
GALVANISED
Fixing angles



GENTIAN BLUE
Spacer
Front-to-back supports
Fork spacers

RAL 5010

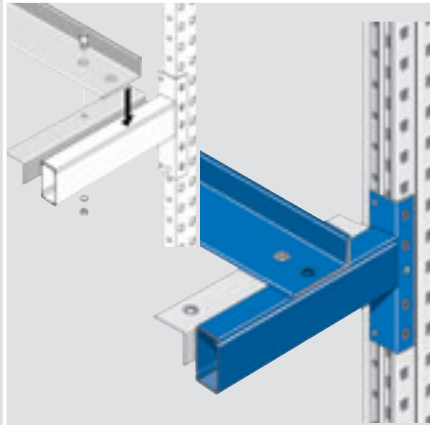
Accessories for PR 350 and PR 600



Spacers

Two single-face racking units positioned one behind the other can be joined together by means of spacers to form a double-faced unit. The length of the spacers is given by the difference between the racking depth and pallet/goods stored, 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

Fastening possibilities for front-to-back supports, for Euro pallets, industry pallets, DIN mesh box pallets.

Item	Clear bay width (mm)	Order no.
AW 18	1800	155030
AW 22	2200	155040
AW 27	2700	155050
AW 29	2900	155060
AW 33	3300	155070
AW 36	3600	155080
AW 39	3900	155090

Angle profile front-to-back support for pallet and container storage

Front-to-back supports hold loading aids safely in pallet racks. One pair of front-to-back supports is necessary for each loading aid when storing containers on longitudinal beams with no decking surface or when storing pallets and containers side-by-side. Fixing angles are required to secure the supports in place and prevent movement on the longitudinal beams (see above figure).

Cross section L 80/40/6

Load capacity up to 1000 kg

Without backstop

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 85	850	800	155100
QA 105	1050	1000	155120
QA 125	1250	1200	155140

With backstop 40 mm

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 85 A	850	800	155110
QA 105 A	1050	1000	155130
QA 125 A	1250	1200	155150

Cross section L 100/50/6

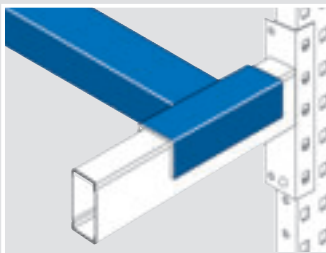
Load capacity up to 1500 kg

Without backstop

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 855	850	800	155160
QA 1055	1050	1000	155180
QA 1255	1250	1200	155200

With backstop 50 mm

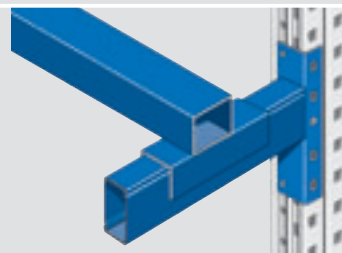
Item	Frame depth (mm)	Pallet/ Container depth (mm)	Order no.
QA 855 A	850	800	155170
QA 1055 A	1050	1000	155190
QA 1255 A	1250	1200	155210



U-section front-to-back supports for pallet storage

Pallet supports ensure secure storage of pallets side by side. At least two pallet supports are required for each pallet stored.

Item	Frame depth (mm)	Pallet/ Container depth (mm)	Max. load per unit (kg)	Max. pallet weight (kg)	Order no.
Cross section U 50/50/3					
UN 853	850	800	225	1000	31220
UN 103	1050	1000	180	800	31230
UN 123	1250	1200	150	600	31240
Cross section U 50/50/4					
UN 854	850	800	290	1200	31260
UN 104	1050	1000	235	1000	31270
UN 124	1250	1200	195	800	31280



Fork spacer

Used when storing wooden pallets, crates, boxes, containers or other bulky goods. Spacer height for access by fork-lift truck: 100 mm, max load per spacer: 2000 kg with uniformly distributed load.

Item	For frame depth (mm)	Order no.
QU 851	850	155220
QU 1051	1050	155230
QU 1251	1250	155240



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Mesh panels
Steel decking
panels

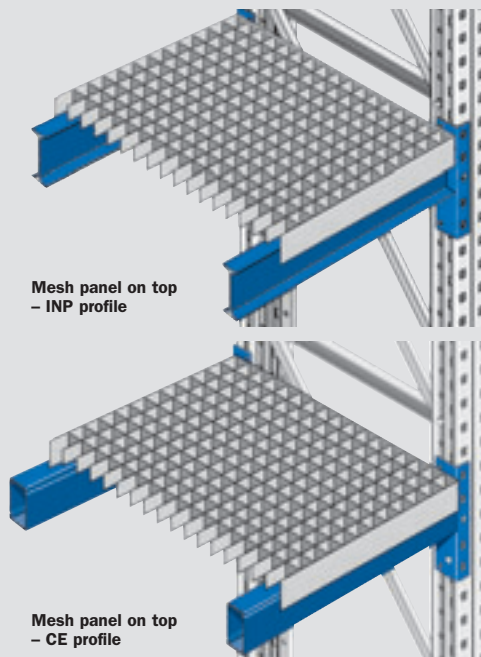
Accessories for PR 350 and PR 600

Mesh panels

Are laid on top of the longitudinal beams. Mesh size 33 x 33 mm. From clear bay width 2200 mm in two sections. Load values given are based on a uniformly distributed load.

Mesh panels on top for beam profiles INP and CE

Item	Frame depth (mm)	Clear bay width (mm)	Support bar height (mm)	Bay load (kg)	Order no.
FGA18-085-30-134X	850	1800	30	1600	156090
FGA18-105-30-134X	1050	1800	30	1400	156160
FGA18-125-35-140X	1250	1800	35	1500	156230
FGA22-085-30-134X	850	2200	30	2000	156100
FGA22-105-30-134X	1050	2200	30	1700	156170
FGA22-125-35-140X	1250	2200	35	1900	156240
FGA27-085-30-134X	850	2700	30	2500	156110
FGA27-105-30-134X	1050	2700	30	2100	156180
FGA27-125-35-140X	1250	2700	35	2300	156250
FGA29-085-30-134X	850	2900	30	2700	156120
FGA29-105-30-134X	1050	2900	30	2300	156190
FGA29-125-35-140X	1250	2900	35	2500	156260
FGA33-085-30-134X	850	3300	30	3000	156130
FGA33-105-30-134X	1050	3300	30	2600	156200
FGA33-125-35-140X	1250	3300	35	2900	156270
FGA36-085-30-134X	850	3600	30	3300	156140
FGA36-105-30-134X	1050	3600	30	2800	156210
FGA36-125-35-140X	1250	3600	35	3100	156280
FGA39-085-30-134X	850	3900	30	3500	156150
FGA39-105-30-134X	1050	3900	30	3100	156220
FGA39-125-35-140X	1250	3900	35	3400	156290



Steel decking panels

Are made with rounded edges. The shorter sides hang over the longitudinal beams, securing the panels in place. Panels may be used to cover part or all of a storage level. Load values given are based on uniformly distributed load.

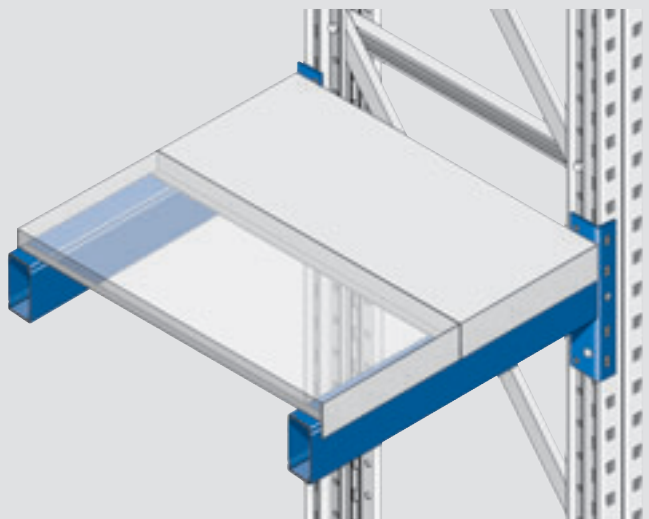
Clear bay width (mm)	Panel width (mm)	Number of panels	Clear bay width (mm)	Panel width (mm)	Number of panels
1800	300	6	3300	300	11
2200	300	6	3600	300	12
	200	2	3900	300	13
2700	300	9			
2900	300	9			
	200	1			

Panel width 200 mm

Item	For frame depth (mm)	Load capacity (kg)	Order no.
FPA 20-070-40-40X	700	400	193140
FPA 20-085-40-40X	850	400	193150
FPA 20-105-40-40X	1050	300	193160
FPA 20-125-40-40X	1250	200	193170

Panel width 300 mm

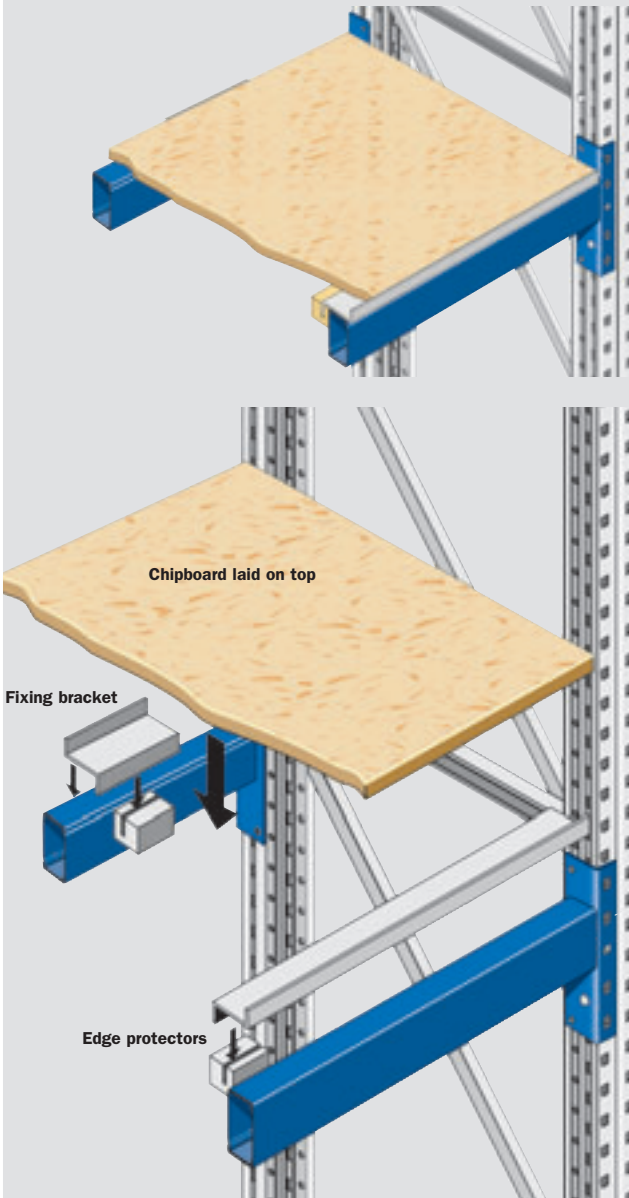
Item	For frame depth (mm)	Load capacity (kg)	Order no.
FPA 30-070-40-30X	700	300	193100
FPA 30-070-40-50X		440	193180
FPA 30-085-40-30X	850	300	193110
FPA 30-085-40-50X		440	193190
FPA 30-105-40-30X	1050	240	193120
FPA 30-105-40-50X		360	193200
FPA 30-125-40-30X	1250	190	193130
FPA 30-125-40-50X		280	193210



Accessories for PR 350 and PR 600

Chipboard

Are to be inserted on the profile of the INP or CE longitudinal beams. Secured in place by brackets. For bay width in excess of 3300 mm, panels are supplied in two sections. Load values given are based on a uniformly distributed load. Surface: natural.



38 mm thick, standard for INP and CE beams

Item	Frame depth (mm)	Clear bay width (mm)	Comp. load (kg)	Order no.
FSA 18-085-38-NX	850	1800	1300	306840
FSA 18-105-38-NX	1050	1800	950	306980
FSA 18-125-38-NX	1250	1800	600	307120
FSA 22-085-38-NX	850	2200	1600	306850
FSA 22-105-38-NX	1050	2200	1100	306990
FSA 22-125-38-NX	1250	2200	750	307130
FSA 27-085-38-NX	850	2700	2000	306860
FSA 27-105-38-NX	1050	2700	1400	307000
FSA 27-125-38-NX	1250	2700	900	307140
FSA 29-085-38-NX	850	2900	2200	306870
FSA 29-105-38-NX	1050	2900	1500	307010
FSA 29-125-38-NX	1250	2900	1000	307150
FSA 33-085-38-NX	850	3300	2500	306880
FSA 33-105-38-NX	1050	3300	1700	307020
FSA 33-125-38-NX	1250	3300	1100	307160
FSA 36-085-38-NX	850	3600	2700	306890
FSA 36-105-38-NX	1050	3600	1900	307030
FSA 36-125-38-NX	1250	3600	1200	307170
FSA 39-085-38-NX	850	3900	2900	306900
FSA 39-105-38-NX	1050	3900	2000	307040
FSA 39-125-38-NX	1250	3900	1300	307180

38 mm thick, high density for INP and CE beams

Item	Frame depth (mm)	Clear bay width (mm)	Comp. load (kg)	Order no.
FSA 18-085-38-HX	850	1800	2100	306910
FSA 18-105-38-HX	1050	1800	1500	307050
FSA 18-125-38-HX	1250	1800	1000	307190
FSA 22-085-38-HX	850	2200	2600	306920
FSA 22-105-38-HX	1050	2200	1900	307060
FSA 22-125-38-HX	1250	2200	1300	307200
FSA 27-085-38-HX	850	2700	3200	306930
FSA 27-105-38-HX	1050	2700	2300	307070
FSA 27-125-38-HX	1250	2700	1600	307210
FSA 29-085-38-HX	850	2900	3500	306940
FSA 29-105-38-HX	1050	2900	2500	307080
FSA 29-125-38-HX	1250	2900	1700	307220
FSA 33-085-38-HX	850	3300	4000	306950
FSA 33-105-38-HX	1050	3300	2800	307090
FSA 33-125-38-HX	1250	3300	1900	307230
FSA 36-085-38-HX	850	3600	4000	306960
FSA 36-105-38-HX	1050	3600	3100	307100
FSA 36-125-38-HX	1250	3600	2100	307240
FSA 39-085-38-HX	850	3900	4000	306970
FSA 39-105-38-HX	1050	3900	3300	307110
FSA 39-125-38-HX	1250	3900	2300	307250

Fixing bracket

For chipboard 38 mm and longitudinal beams INP/CE. 4 fixing brackets each are needed for clear bay widths 1800 to 2900 mm and 6 fixing brackets each are needed for clear bay widths 3300 to 3900 mm.

Item	Order no.
FSHB 24	156910

Edge protectors

For chipboard 38 mm and longitudinal beams INP/CE.

Item	Clear bay width (mm)	Order no.
KN 1824	1800	157140
KN 2224	2200	157150
KN 2724	2700	157160
KN 2924	2900	157170
KN 3324	3300	157180
KN 3624	3600	157190
KN 3924	3900	157200

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Safety regulations

stationary shelves, which are served by monorail cranes, must be sufficiently secured at the corner areas – also at passages – against damage of the frame

Safety accessories for pallet racking

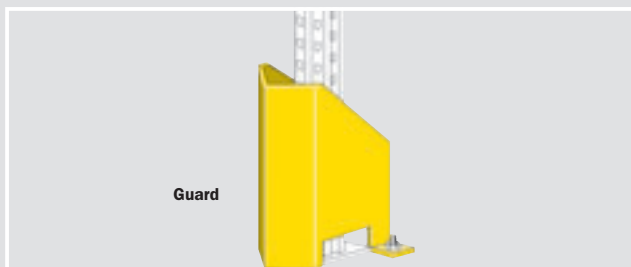


Corner protector ES 400 C

Corner protector

Robust angle channel section with sturdy floor plate and two anchor bolts to fix the protector to the hall floor.

Item	Height (mm)	Order no.
ES 400 C	400	157390



Guard

Guard

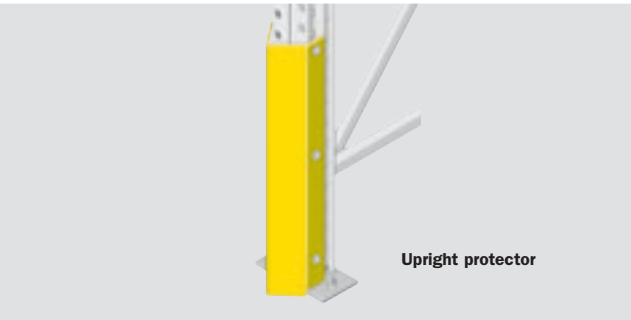
To protect uprights against damage from conveying vehicles, 140 mm wide, U-shaped, includes 4 anchor bolts.

Item	Height (mm)	Order no.
AS 400	400	157420

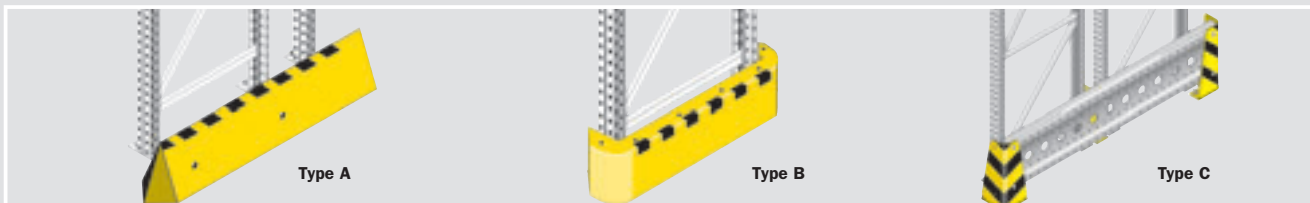
Upright protector

Used to strengthen the front uprights and to afford protection against impact, 750 mm high, incl. fixing materials.

Item	For support width (mm)	Order no.
STS 70-3-750	70	158570
STS 75-6-750	75	158600
STS 80-3-750	80	158580
STS 90-6-750	90	158610
STS 100-3-750	100	158590



Upright protector



Type A

Type B

Type C

Buffers

Buffers should be used where pallet racking is in particular danger of being hit by fork lift trucks, e.g. access aisles or aisles which are frequently used.

Type A:

400 mm high, approx. 250 mm wide, inclined front section for optimum deflection of impact forces to the floor, incl. anchor bolts.

Item	For frame depth (mm)	Order no.
RS 854 A	850	157800
RS 1054 A	1050	157810
RS 1254 A	1250	157820
RS 1804 A	1800	157830
RS 2204 A	2200	157840
RS 2354 A	2350	157850
RS 2604 A	2600	157860

Type B:

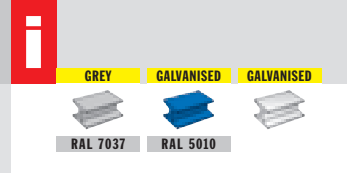
400 mm high, 100 mm wide, including anchor bolts.

Item	For frame depth (mm)	Order no.
RS 854 B	850	157870
RS 1054 B	1050	157880
RS 1254 B	1250	157890
RS 1804 B	1800	157900
RS 2204 B	2200	157910
RS 2354 B	2350	157920
RS 2604 B	2600	157930

Type C:

With sturdy C-Sigma profile, 400 mm high, 75 mm wide, including anchor bolts, above 1800 mm length with additional support on centre.

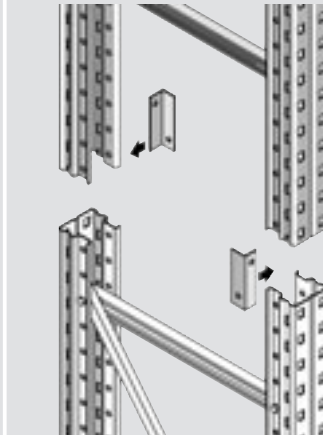
Item	For frame depth (mm)	Order no.
RS 854 C	850	157430
RS 1054 C	1050	157440
RS 1254 C	1250	157450
RS 1804 CZ	1800	157690
RS 2204 CZ	2200	157700
RS 2354 CZ	2350	157710
RS 2604 CZ	2600	157720



Safety accessories for pallet racking

Frame extension at row ends

Used to prevent items from falling sideways of the pallet racking, 500 mm high, incl. fixing materials.



Item	Frame profile (mm)	Frame depth (mm)	Order no.
AN 78	70	850	33160
AN 68	75	850	34870
AN 88	80	850	33170
AN 98	90	850	34860
AN 18	100	850	33180
AN 71	70	1050	33190
AN 61	75	1050	34880
AN 81	80	1050	33200
AN 91	90	1050	34840
AN 11	100	1050	33210
AN 72	70	1250	33220
AN 62	75	1250	34890
AN 82	80	1250	33230
AN 92	90	1250	34850
AN 12	100	1250	33240

Mesh back cladding

The back of free-standing racking must be clad in order to prevent goods from falling and/or to keep them securely in place. Please observe the current security regulations and contact our specialists for advice. Depending on the racking height and useful bay width,

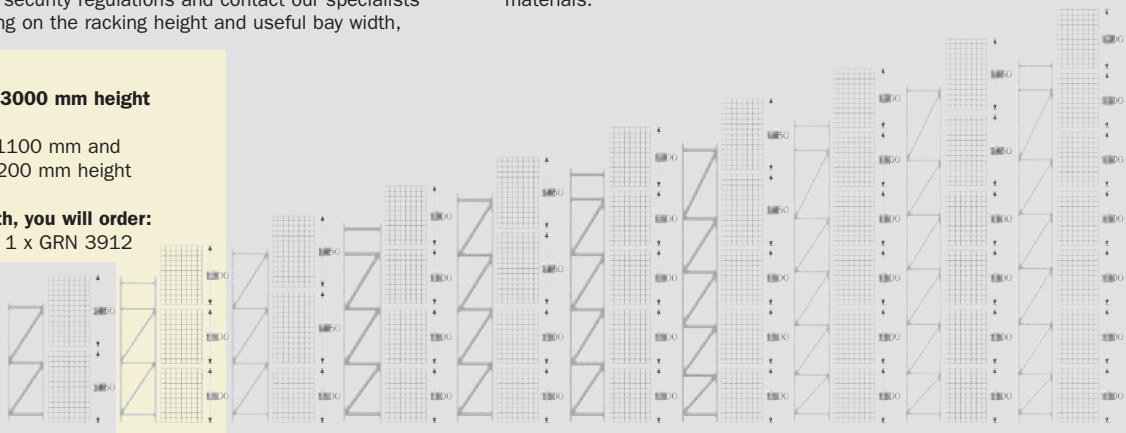
mesh panels can be combined freely. Each element consists of a sturdy angle frame with welded 50 x 50 mm mesh, including fixing materials.

Example order

For one shelf with 3000 mm height you will need:

2 mesh panels of 1100 mm and 1 mesh panel of 1200 mm height

For pallet racking, 3900 mm bay width, you will order:
2 x GRN 3911 and 1 x GRN 3912



Racking height in mm	2500	3000	3600	4100	4700	5200	5800	6300	6900	7400
Required back panel height in mm	2900	3400	4000	4500	5100	5600	6200	6700	7300	7800
Number of mesh panels required										
H 1100 mm	-	2	1	3	2	4	3	5	4	6
H 1200 mm	-	1	-	1	-	1	-	1	-	1
H 1450 mm	2	-	2	-	2	-	2	-	2	-

Item	Clear bay width (mm)	Mesh segment height (mm)	Order no.	Item	Clear bay width (mm)	Mesh segment height (mm)	Order no.	Item	Clear bay width (mm)	Mesh segment height (mm)	Order no.
GRC 911	900	1100	158650	GRC 912	900	1200	158660	GRC 914	900	1450	158670
GRC 1111	1100	1100	158680	GRC 1112	1100	1200	158690	GRC 1114	1100	1450	158700
GRC 1311	1300	1100	158710	GRC 1312	1300	1200	158720	GRC 1314	1300	1450	158730
GRC 1811	1800	1100	158740	GRC 1812	1800	1200	158750	GRC 1814	1800	1450	158760
GRC 2211	2200	1100	158770	GRC 2212	2200	1200	158780	GRC 2214	2200	1450	158790
GRC 2711	2700	1100	158800	GRC 2712	2700	1200	158810	GRC 2714	2700	1450	158820
GRC 2911	2900	1100	158830	GRC 2912	2900	1200	158840	GRC 2914	2900	1450	158850
GRC 3311	3300	1100	158860	GRC 3312	3300	1200	158870	GRC 3314	3300	1450	158880
GRC 3611	3600	1100	158890	GRC 3612	3600	1200	158900	GRC 3614	3600	1450	158910
GRC 3911	3900	1100	158920	GRC 3912	3900	1200	158930	GRC 3914	3900	1450	158940

Identification labelling requirements

In accordance with the industry safety regulations, all racking installations have to be labeled with the relevant load signs.

System Type:

Year of construction: _____

Order confirmation no.: _____

max. bay load: _____ kg

at clear height of storage level: _____ mm

Load/level: _____ kg Profile: _____

Length/bay: _____ mm

Load/level: _____ kg Profile: _____

Length/bay: _____ mm

Load/level: _____ kg Profile: _____

Length/bay: _____ mm

The sum of all compartment loads must not exceed the max. usable bay load. Compartment loads are uniformly distributed. Damaged or deformed racking parts must be immediately replaced, since this would lead to a considerable reduction of the load bearing capacity. Please consult the instructions for operating and use.

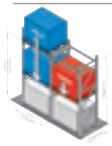
FRITZ SCHÄFER GMBH
Fritz Schäfer Straße 20
D-57290 Neunkirchen/Siegeland
Phone +49 / (0) 27 35 / 70-1
Fax +49 / (0) 27 35 / 70-64

Racking system:

Construction year: _____

Type of rack: Single location pallet racking

Order confirmation no.: _____



Racking height: _____ mm
(Height to top beam level)

Frame depth: _____ mm

No. of storage levels: _____ mm
(up to longitudinal brace)

Clear entry: _____ mm

Upright profile: _____

Level	profile	compartment load
_____	_____	_____ kg
_____	_____	_____ kg
_____	_____	_____ kg
_____	_____	_____ kg

max. weight/pallet: _____ kg

max. usable bay load: _____ kg

FRITZ SCHÄFER GMBH
Fritz Schäfer Straße 20 - D-57290 Neunkirchen/Siegeland
Phone +49 / (0) 27 35 / 70-1 - Fax +49 / (0) 27 35 / 70-64

Safety accessories for pallet racking

Storage area identification from page D24

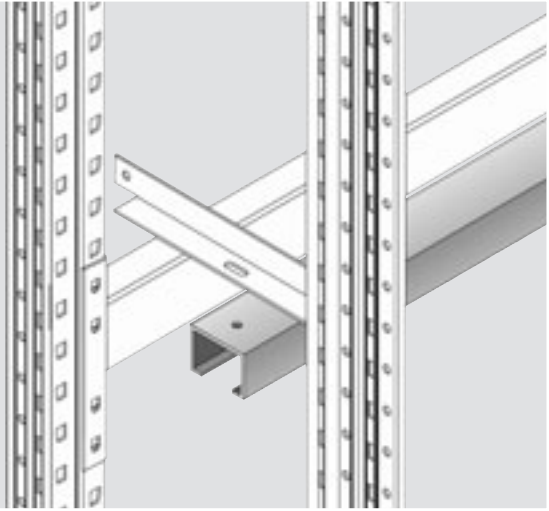
Load signs

Item	W x H (mm)	Material	Order no.
PRTS 7050 LTR	420 x 600	Aluminium, incl. fixing material	992305
PRTS 7050 QTR	420 x 600	Aluminium, incl. fixing material	992305
TS 0615	60 x 150	PVC adhesive film	157300

End stops

Back stops are essential when using double-faced racking if the distance between the goods stored on opposing faces is less than 100 mm. On single face racking, back stops simply prevent goods from falling. According to requirements, profile widths of 40 mm and 60 mm can be used.

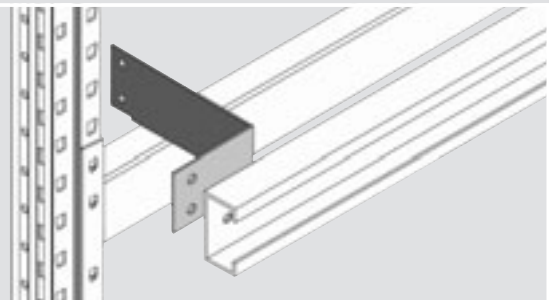
Item	Clear bay width (mm)	Profile	Order no.
DS 904	900	C 40/30	158300
DS 1104	1100	C 40/30	158310
DS 1304	1300	C 40/30	158320
DS 1806	1800	C 60/40	158350
DS 2206	2200	C 60/40	158360
DS 2706	2700	C 60/40	158420
DS 2906	2900	C 60/40	158430
DS 3306	3300	C 60/40	158440
DS 3606	3600	C 60/40	158450
DS 3906	3900	C 60/40	158460



Accessories for back stops on single face racking

When back stops are used in single faced racking, 2 fixing brackets of 100 mm are required.

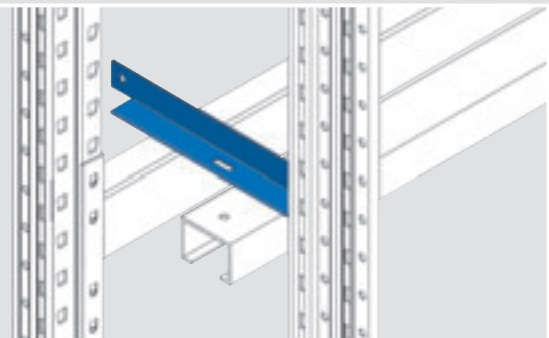
Item	For frame depth (mm)	Order no.
KDS 1	1050	158480

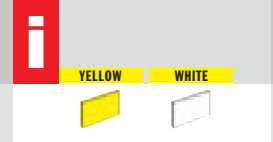


Accessories for back stops on double faced racking

When using back stops on double faced racking, 2 spacers are required per backstop.

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





Identification of storage locations

The potential to increase picking of logistics processes, speeds and thus for durable reduction of costs is extraordinarily high.

Both manual and automated warehouses can be optimized with better procedures and visual stock organisation systems.

The staff productivity increases significantly due to fast and safe storage, retrieval of goods and relocation of goods. Order pickers and fork lift drivers are directed in shortest time to the correct storage location.

The solution is a clearly understandable control system, which can be implemented simply and fast. The investment here for the visual warehouse organization is particularly low.

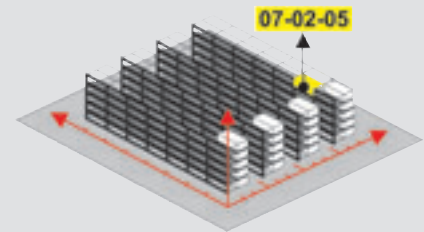
The systematic numbering of all locations, known as the number codes, is the basis and prerequisite for efficient warehouse organization.

Each location receives a clear and unmistakable coding, which consists of at least three coordinates: racking row, longitudinal position and height position.

The print of further information is possible, for e.g. storage areas, control numbers, barcodes, positioning arrows.

Fonts, basic colours and sizes for signs, labels, label holders and ground markings are available in numerous variations.

If you are looking for a type, which is not mentioned here, please ask.



i Other types

on request

Location labels

Polyethylene film, self-adhesive.
Colour: yellow, print: black, up to 8 characters incl. spaces.
Minimum order quantity 100 pieces.

Quantity discount: 1 - 1999 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 2000 pieces on request

Location labels

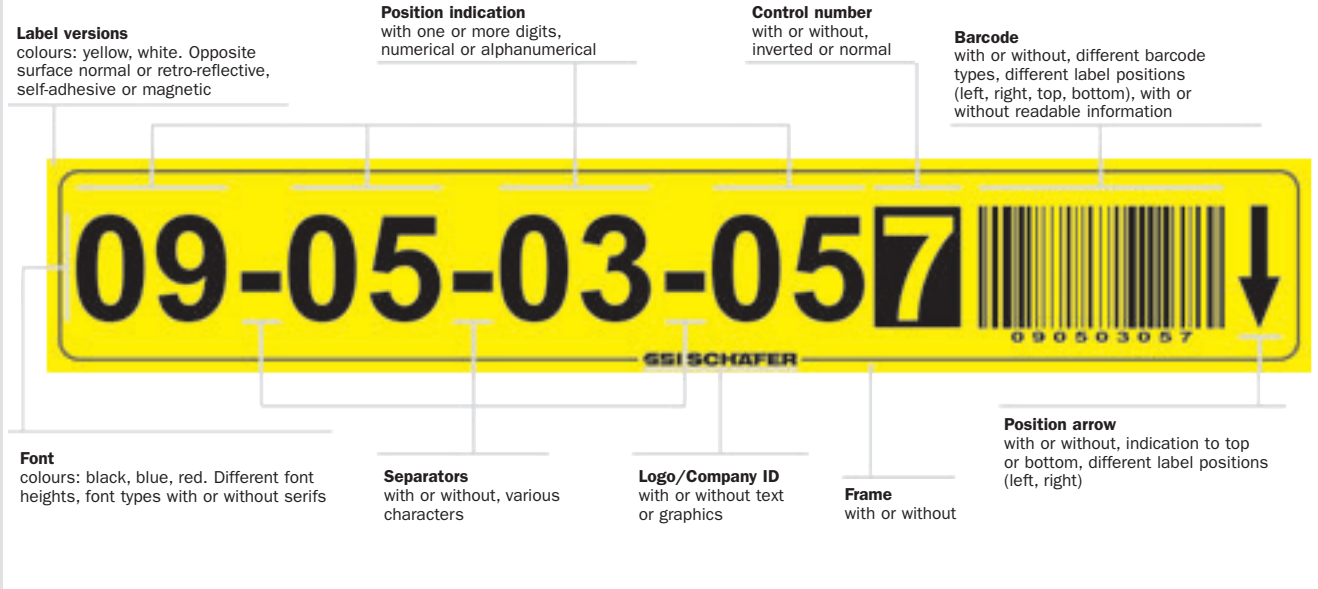
Polyethylene film, self-adhesive.
Colour: white, print: black, up to 8 characters incl. spaces.
Minimum order quantity 100 pieces.

Quantity discount: 1 - 1999 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

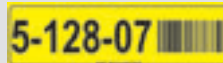
from 2000 pieces on request

Identification of storage locations



Location labels

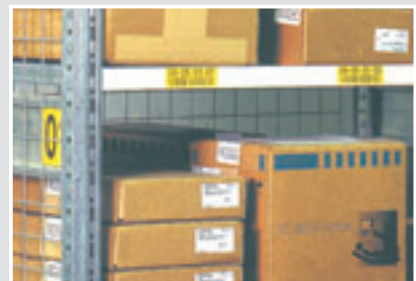
Polyethylene film, self-adhesive.
Colour: yellow, print: black, up to 8 characters incl. separators, with additional barcode.
Minimum order quantity 100 pieces.



Quantity discount: 1 - 1999 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 2000 pieces on request



Location labels

Polyethylene film, self-adhesive.
Colour: white, print: black, up to 8 characters incl. separators, with additional barcode.
Minimum order quantity 100 pieces.

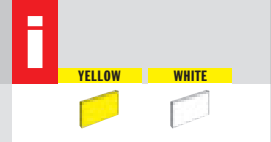


Quantity discount: 1 -1999 pieces

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 2000 pieces on request





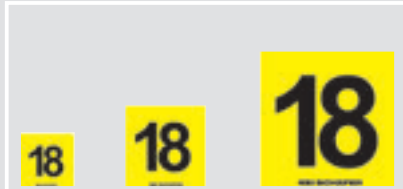
Identification of storage locations



Floor markings

Used to label pallets and (block-) storage areas or aisles, self-adhesive, thickness: 0,3 mm, colour: yellow.

Item	Shapes	Unit	Order no.
R BM K	Circle	1	189917
R BM R	Circular	50	189918
R BM T	T-piece	10	189919
R BM KR	Cross	1	189920
R BM E	Corner piece with printing	10	189921



Shelving row signs

Made from PVC, impact resistant, colour: yellow, font: black, up to 2 characters incl. assembly material.

Item	W x H (mm)	Order no.
R RZ 2020	200 x 200	189912
R RZ 30300	300 x 300	189913
R RZ 50500	500 x 500	189914



Shelving row angle signs

Made from PVC, impact resistant, colour: yellow, font: black, up to 2 characters incl. assembly material.

Item	Shank length (mm)	Order no.
R RW 30300	300 x 300	189915



Label holder

Self-adhesive plastic label holder, total height 33 mm (for label height 30 mm). Without push-in labels.

Item	Length (mm)	Order no.
K EH 0880	780	442518
K EH 1080	980	442538
K EH 1280	1180	442558
K EH 1350	1250	442565
K EH 1800	1700	442610
K EH 2200	2100	442650
K EH 2700	2600	442700



Push-in labels

Pre-perforated labels 120 g/m² paper, white, 20 labels on one DIN A4 sheet for self printing. Label format: 100 x 30 mm.

Item	Format (sheet)	Order no.
R EE 1030	DIN A4	189916

OPERATION NOTE

- Employees have to be informed and trained in the correct use of these facilities.
- It is not allowed to exceed the maximum permissible loads of the load signs.
- Modifications to the racking structure have an influence on the load bearing characteristics of the equipment. Those impacts have to be examined and cross-checked with the supplier.
- Damaged or deformed shelf parts must be immediately replaced, since this would lead to a considerable reduction of the load bearing capacity.
- Pallets, boxes and other loading aids have to be controlled in view of their safety condition. In case of damages they have to be replaced immediately.

FRITZ SCHÄFER GMBH
Fritz Schäfer-Str. 20 · D-57290 Neunkirchen/Siegerland
Phone +49 / (0)27 35 / 70-1 · Fax +49 / (0)27 35 / 70-694

NOTES OF SAFETY

For the purpose of safety please report all damage.

Responsible Safety Officer: _____

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Phone +49 / (0)27 35 / 70-1 · Fax +49 / (0)27 35 / 70-694

Handling instructions/safety instructions

Acc. to FEM regulation for storage installations. Made from aluminum, W 420 x H 600 mm, print multicolour, incl. assembly materials.

Item	Order no.	Item	Order no.		
TS 7050 BH	Operating instructions	992305	TS 7050 SH	Safety notes	992305

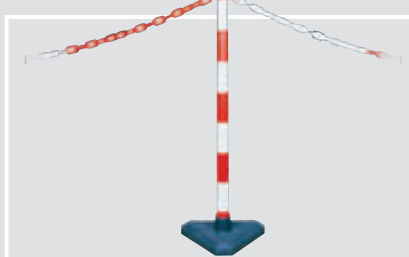
Identification of storage locations



Cleaner

To clean and prepare the surface for self-adhesive labels.

Item	Order no.
R RM Cleaner 0,5 l	189922
R RA Squeegee	189923
R RT Cleaning cloths x 50	189924



Chains

Red/white; chain holder with triangular foot filled with cement; chains made of plastic, colour change every 50 cm, weather resistant to resistant to fading.

Item	Finish	Order no.
R KS	Chain holders	189928
R KG	Chain	189929



Safety marking made from PE foil

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

Item	Finish	Order no.
R WA LI	Pointing left	189927

Preparing a marking scheme

The numbering scheme is basis for compiling the storage locations.

Complete the list and mail together with your p. o. or enquiry.

Calculation of storage locations

- x Warehouse areas
- x Shelving/racking rows
- x Longitudinal positions
- x Locations in height
- = Number of labels

Warehouse area	Row or aisle	Longitudinal position or bay	Location or storage place	Location in height	Total
Example:	06 07 (2)	01 18 (18)		01 05 (5)	2 x 18 x 5 = 180
A	(1) 03	(1) 03 05 (3)	1 3 (3)	01 04 (4)	1 x 1 x 3 x 3 x 4 = 36

Details for label type: Label colour: yellow white other: _____ with test number with direction arrow
Colour of script: signalback other: _____ with frame with logo/company sign
Label size: 40 mm max 41 65 mm 66 100 mm retro-reflecting suitable for cold store
 with Barcode, Type: _____ Barcode in clear script adhesive labels magnetic labels

Summary of storage locations:

PDF template on request



Internat. escape sign EXIT

390 x 115 mm, made from aluminum.

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



Aluminium plates

Diameter 200 mm, acc. to DIN 4844-2.

Item	Finish	Order no.
R VZ 20F12	"Pedestrians prohibited"	189925
R VZ 20U12	"Access to unauthorized persons prohibited"	189926

Drive-in and drive-through racking

SSI SCHAEFER pallet racking can be configured to serve as drive-in and/or drive through racking. Drive-in racking is the ideal storage solution if very large quantities of the same product are to be stored, to achieve maximum storage capacity in the minimum space.

Picking and replenishment is facilitated by means of conventional forklift trucks, which can drive into the racks. Although immediate access to every product is not

possible, drive-in racking plays a major role in modern warehouses.

Pallet drive-in and drive-through racking are being served by fork lift and reach trucks. Normally used by food and non-food industries, especially for goods in high quantities but low variety, like e.g. fruit, fruit juices or care products. When considering drive-in racking, the design of the supports is essential for the installation. Floorguide rails should ideally be used with drive-in

and drive-through racking for protection and better orientation for the fork-lift driver.

If you are planning to build a new storage installation or to restructure an existing one, please check the following system characteristics. We would like to help you with the planning and will find the most economic solution for your logistic needs.



i Additional information

on request

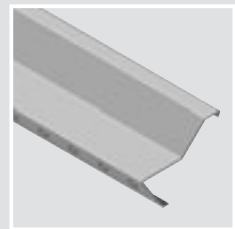
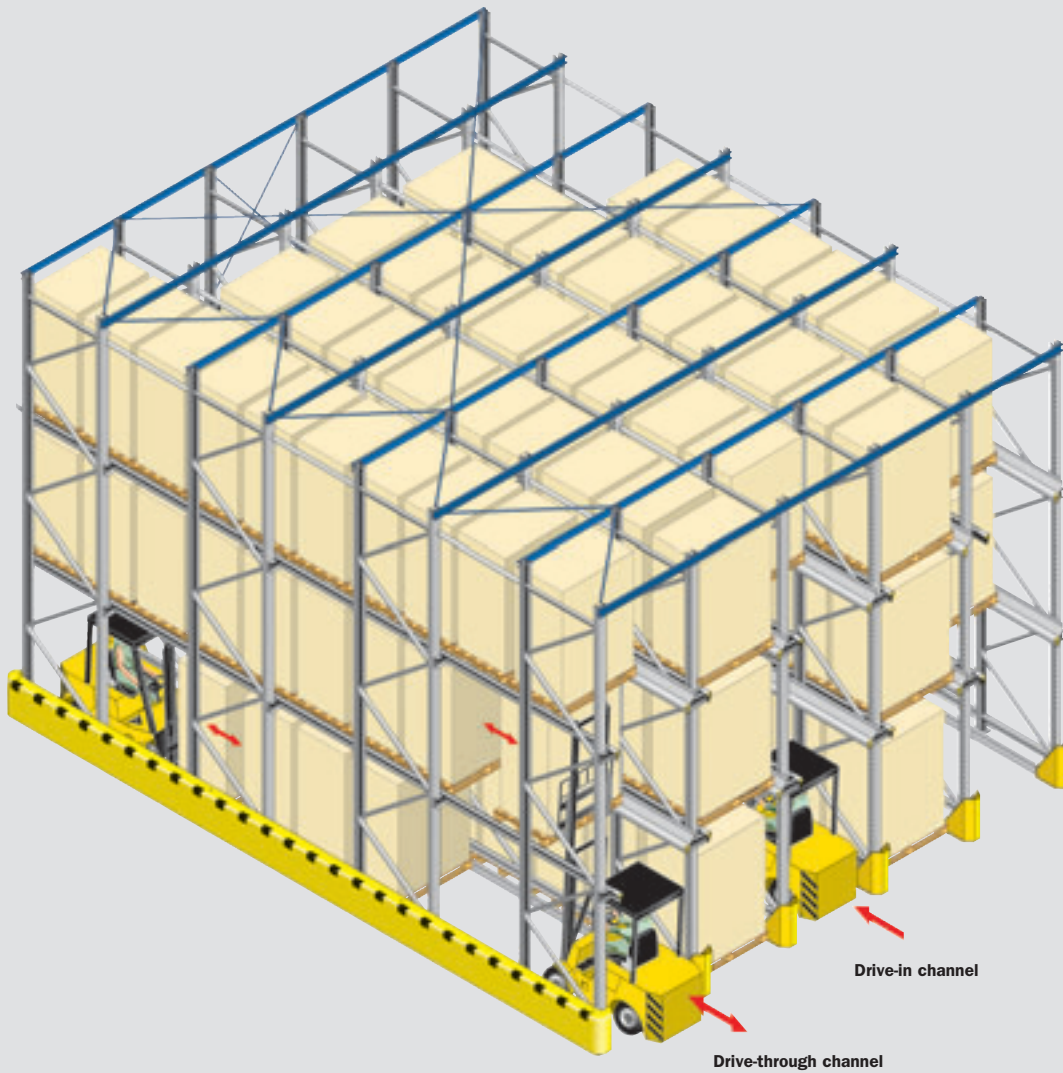
Storage in drive-in and drive-through racking

Advantages of drive-in racking:

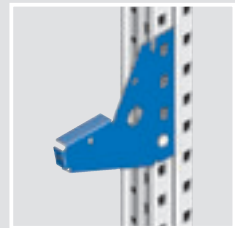
The main characteristic of drive-in racking is maximum storage capacity using the minimum amount of space. Picking and replenishment is done from one side. The channels can only be served in one direction.

Advantages of drive-through racking:

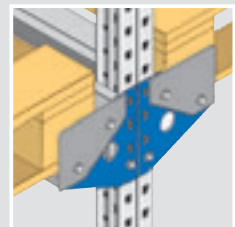
Both sides of the racking can be used, if the racking unit is free-standing. It is possible for the fork lift truck to drive through. Drive-through racking offers the advantage that picking and replenishment can take place independently of each other.



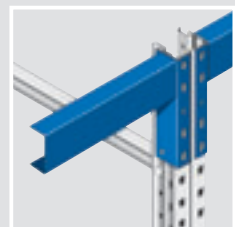
Depth support



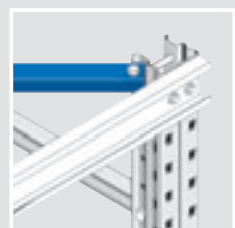
Attachment bracket



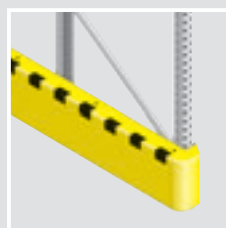
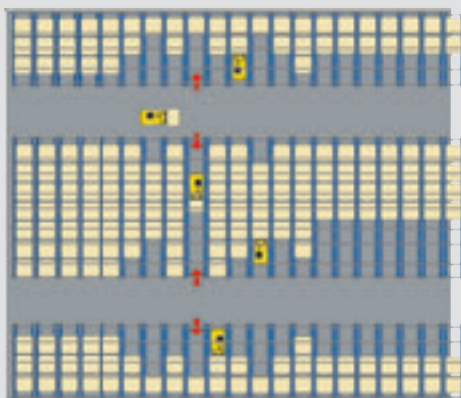
End stops



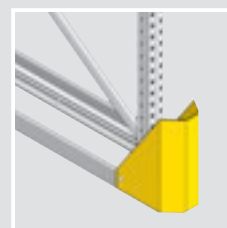
Longitudinal bracing



Horizontal cross bracing



Buffers



Corner protectors and floor guide rails

Mobile racking for pallets and oversized goods

Buildings cannot always be extended at will to provide additional storage space. Increasing storage density to release areas for production is often difficult. When those situations exist, one should think about mobile racking. With modern control concepts and well founded planning anything is possible.

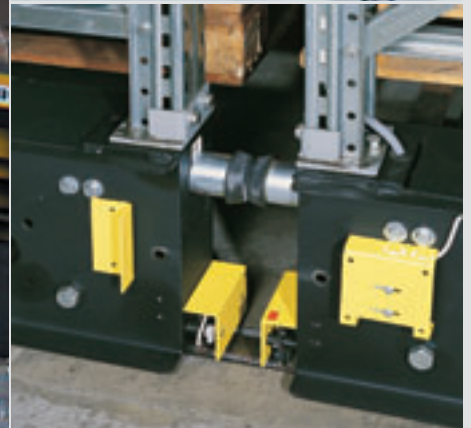
The mobile racking system is simple as well as impressive. As many

rows of racking as required can be fitted onto mobile bases and moved fully motorized on rails. Only one access aisle needs to be open, depending on where the goods need to be picked.

If you are planning to build a new storage installation or to restructure an existing one, please check the following system characteristics.

- ▶ 85% increase of storage capacity over the same surface area.
- ▶ 60% decrease in building volume if you are planning to build new.
- ▶ 40% increase in available space, without having to build a new facility.

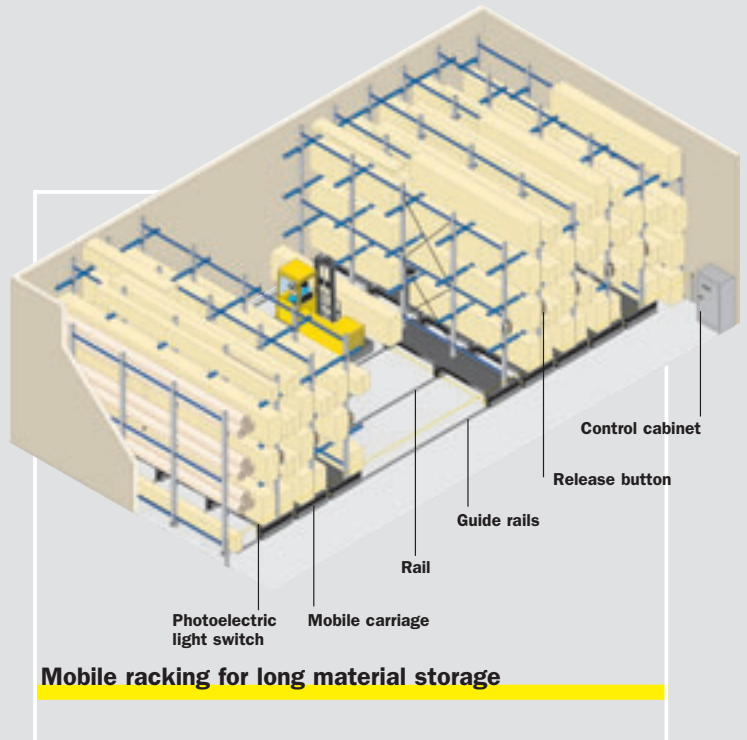
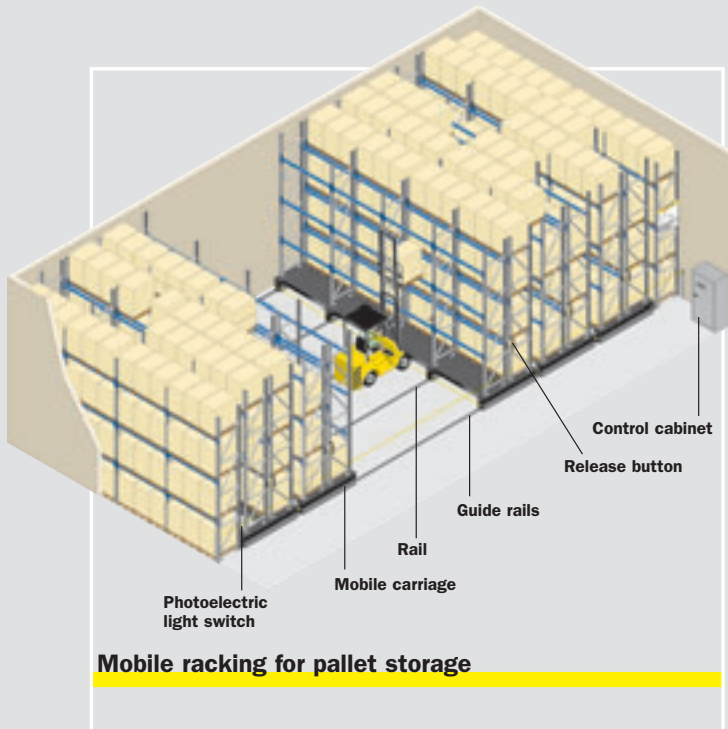
We can help you with the planning and will find the most economic solution for your logistic needs.



i Additional information

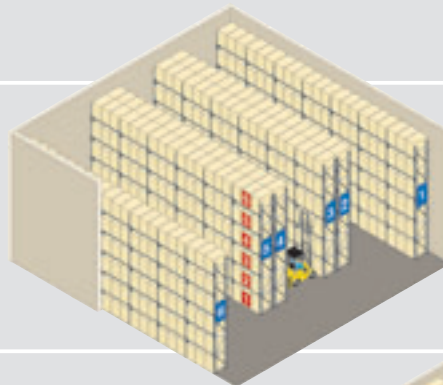
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Mobile racking



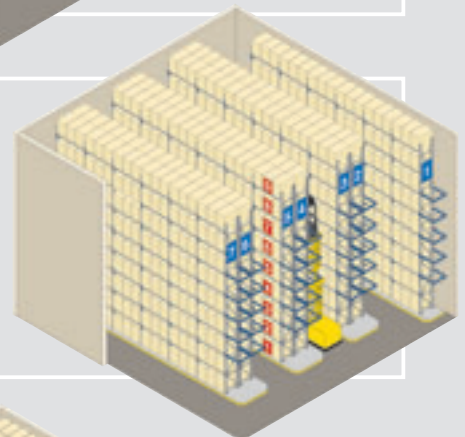
Standard pallet storage

- Building costs/standard floor	approx. € 300,000,00
- Racking system cost, 6 storage heights	approx. € 20,000,00
- Cost of reach truck 1,2 t	approx. € 25,000,00
- Total investment	approx. € 345,000,00
- Percent racking usage: aisles	43%
- Storage capacity	912 Euro pallets
- Cost per pallet space including building	approx. € 378,00



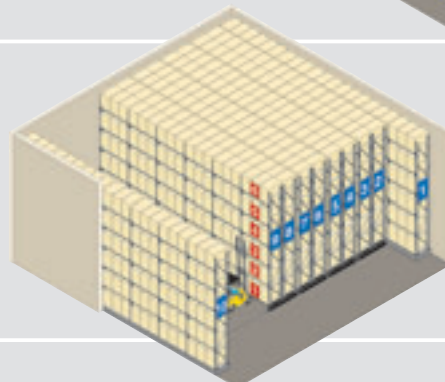
Narrow aisle storage

- Building costs/standard floor	approx. € 320,000,00
- Cost of level accuracy	approx. € 7,000,00
- Racking system cost, 9 storage heights	approx. € 43,000,00
- Cost of high-rise stacker 1,5 t	approx. € 56,000,00
- Narrow aisle DIN 15 185	approx. € 10,000,00
- Total investment	approx. € 435,000,00
- Percent racking usage: aisles	47%
- Storage capacity	1494 Euro pallets
- Cost per pallet space including building	approx. € 291,00



Mobile racking

- Building costs/standard floor	approx. € 300,000,00
- Additional cost for rail movement	approx. € 3,000,00
- Racking system cost, 6 storage heights	approx. € 94,000,00
- Cost of reach truck 1,2 t	approx. € 25,000,00
- Total investment	approx. € 422,000,00
- Percent racking usage: aisles	70%
- Storage capacity	1488 Euro pallets
- Cost per pallet space including building	approx. € 283,00



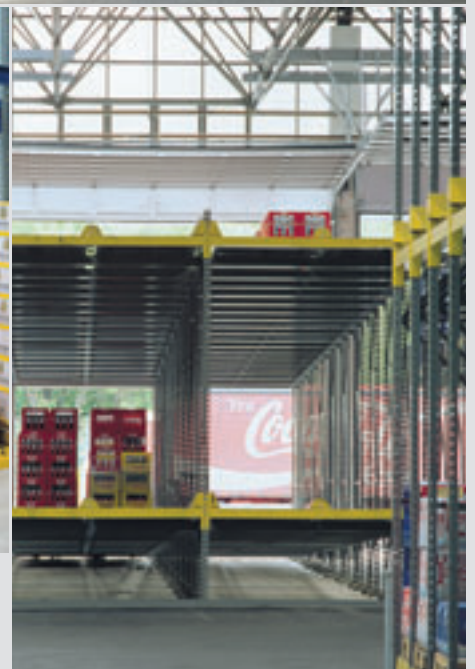
Pallet live storage

Pallet live storage is being used as buffer storage in shipping areas, production, goods reception and dispatch. This kind of racking is normally being served by fork lift truck and reach truck. Hand pallet trucks can be used on the lowest level at the picking side.

The storage principle is First-in-First-out (FiFo). Stored goods with expiration dates or product batches are easier to supervise. The design of the gravity roller tracks can be adapted by different roller pitches and break rollers to guide the stored goods.

Further advantages of this storage system are in the optimal surface and volume use as well as the possibility for integration into automated material flow.

The pallets can be served on multi-storey levels with an additional order-picking level or tunnel.



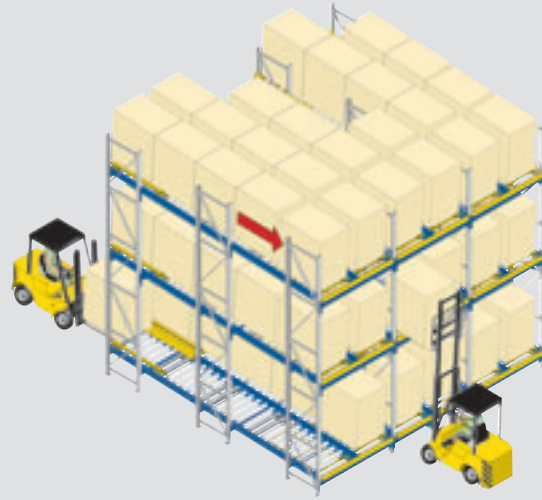
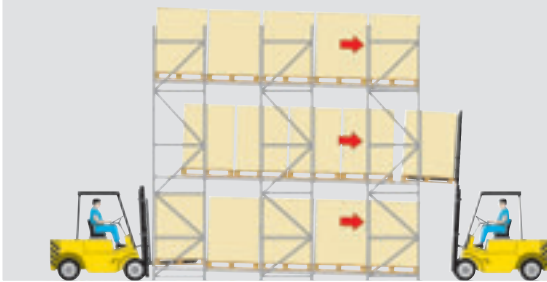
i Additional information

on request

Live storage and push-in racking

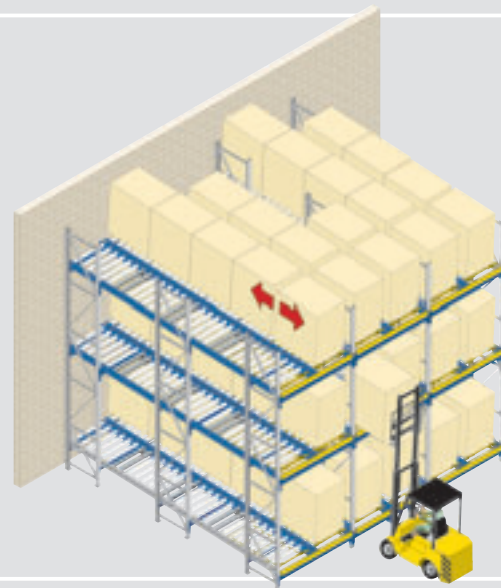
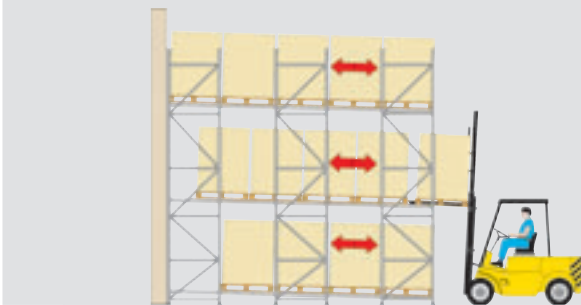
Pallet live storage

The live storage racking consists of gravity roller tracks, which are built as flow beds in a shelf. Because several channels lie next to each other and the room height is optimally used, an economic degree of space use has been achieved. The picking and replenishing sides are separate, the roller tracks control and guide the transport of the pallets.



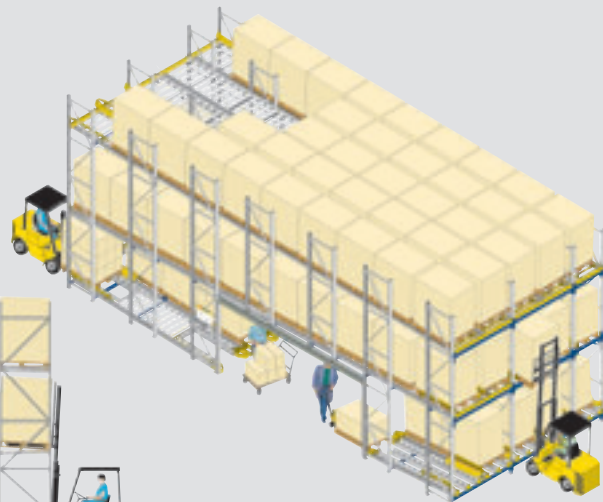
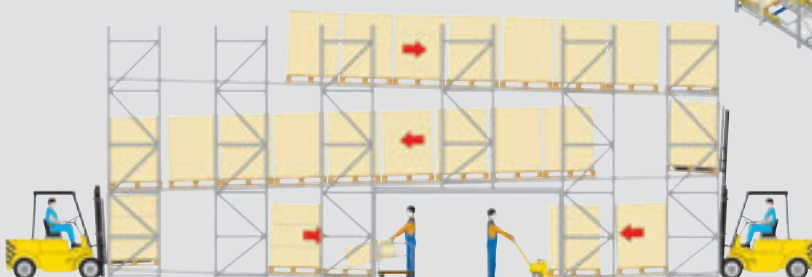
Push-in racking

Pallet push-back racking are space-saving buffer storage with just one service aisle. Here, the stored goods are being pushed with the fork lift truck against the inclination of the roller track into a channel. When order picking, the stacker slows the following pallets down. As a result of the omission of break rollers and separators an economical solution arises. All articles are always available on the picking side of the rack. Pallet push-back racking works according to the LiFo principle (Last-in-First-out).



Pallet live storage with order picking tunnel

Pallet live storage racking becomes a ever more important component of storage logistics, since the connection from buffer storage and order picking is been realized consistently. Live storage racking with order picking tunnel follows the FiFo principle (First-in-First-out), supply and order picking channels are separated, large goods handling volumes are possible. These are optimal conditions for applications e.g. in the beverage trade or for electrical appliance manufacturers.



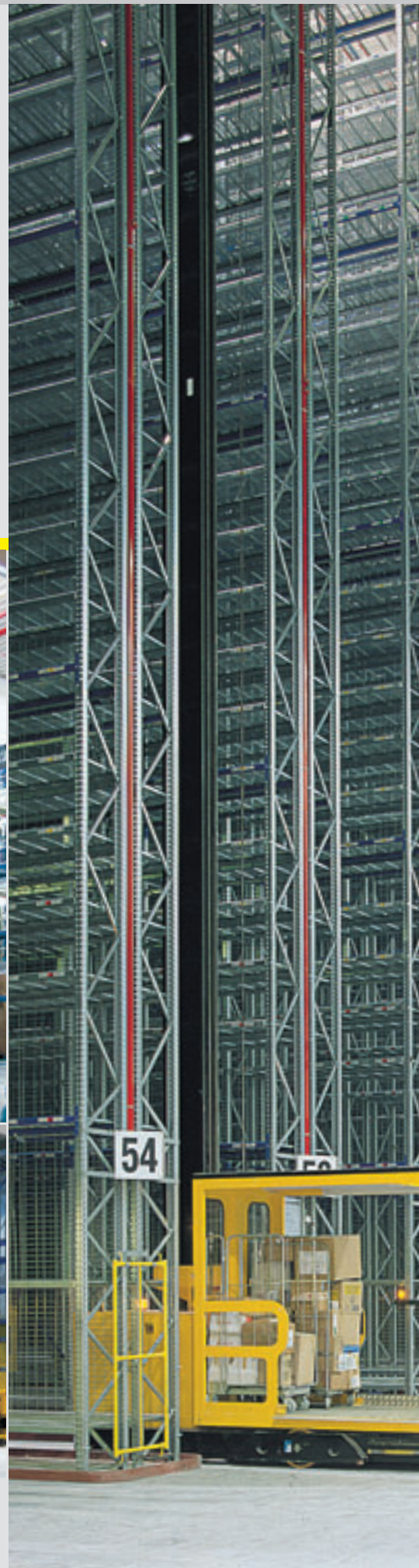
High rise racking, narrow aisle system

High rise, narrow aisle racking facilitates very high density storage, even when actual floor area is limited.

SSI SCHAEFER systems have been used all over the world in countless applications. SSI SCHAEFER has years of experience in this field and is working in co-operation with manufacturers of floors, cranes,

safety equipment and fire regulation authorities. This ultimately means that we can provide a first class service to our customers.

SSI SCHAEFER is a professional systems service provider.



i Additional information

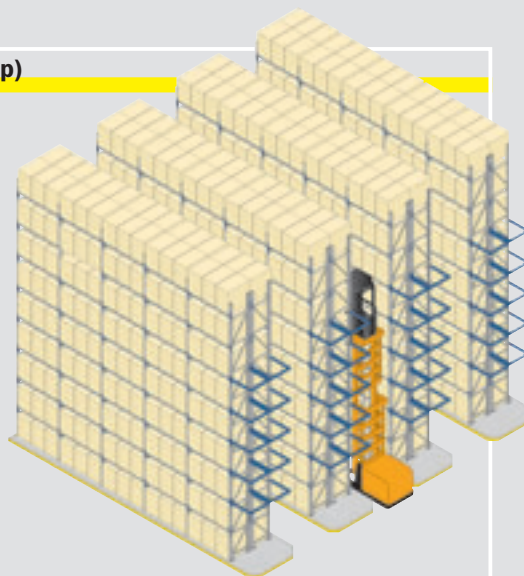
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High rise racking operation

Narrow aisle system with order picker (Man-up)

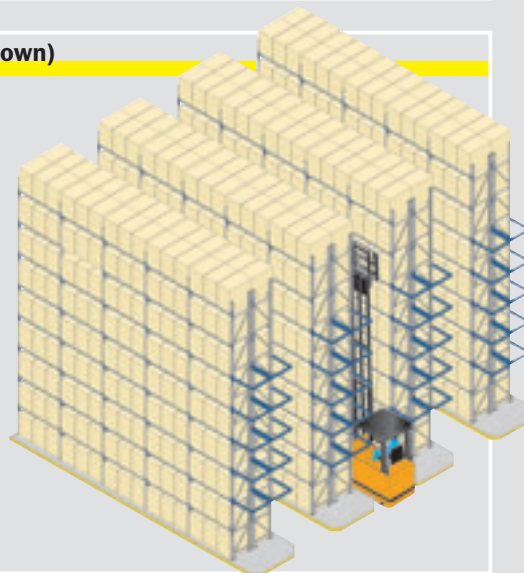
This type of storage system is used most frequently. The advantages are:

- The operator is always on picking height, no positioning aid is necessary.
- Pallet order picking is possible.



Narrow aisle system with order picker (Man-down)

This type of storage system is used, if only complete pallets are being picked and replenished. Compared to Man-up devices, closer tolerances are to be considered for floor and shelf and positioning aids in horizontal as well as vertical direction are necessary for larger racking heights.



Narrow aisle system with order picker (Man-up) and top guiding rail

This additional, upper guiderail with integrated electrical rail permits large racking heights (to 19 m) and racking lengths (> 100 m) with high driving speeds. An important factor is the maintaining of very close floor and shelf tolerances, in order to ensure perfect functioning.

