

# Pallet racking systems – a stacking system with limitless versatility

SSI SCHAEFER's pallet racking systems are just as practical as the euro and industrial pallets themselves. Whether flat pallets, mesh box pallets or other load carriers – longitudinal beam racks for single or multi-space storage ensure excellent mobility for rapid goods turnaround. Multi-space longitudinal beam rack systems are used in diverse areas ranging from wholesale or spare parts warehouses in the electronics, engineering and automotive industries.

Single-space longitudinal beam rack systems are ideal for storing goods with the same base area and different heights. Drive-in racking systems have proven their value especially when storing a very large quantity of a limited range of different articles.

Combined with suitable accessories, pallets and containers, this solution enables products with the most diverse dimensions to be stored optimally.









PR 350 longitudinal beam rackings page D4



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# Overview of pallet racking systems

	Longitudinal beam rackings PR 350	Longitudinal beam rackings PR 600		
Areas of use	Pallet storage of medium and large-volume goods with medium to high loads, e.g. in production areas and for on-line shelving	Pallet storage of medium and large-volume goods with medium to high loads, e.g. for logistics services or in distribution warehouses		
Advantages	▶ Solid and robust construction	► Light and economical		
	► Easy assembly	➤ Sturdy due to special design		
	with only a few components	➤ Precise dimensional accuracy		
Design	▶ Welded frame construction with longitudinal beams, 3 stand profiles each with 3 frame depths, 10 frame heights, 2 beam types, 7 field lengths	▶ Bolted frame construction with longitudinal beams, 4 stand profiles each with 3 frame depths, 10 frame heights, 2 beam types, 7 field lengths		
Transverse connection	▶ Bold-free system	▶ Bold-free system		
System hole pattern	▶ 50 : 50 mm	▶ 50 : 50 mm		
Support widths	▶ 70, 80, 100 mm	> 75, 90, 100, 120 mm		
Frame load capacity	▶ Up to 12,500 kg	▶ Up to 30,000 kg		
Beam load capacity	▶ Up to 4,500 kg per pair	▶ Up to 4,500 kg per pair		
Frame surface	▶ Painted RAL 7037, Dust Gray	► Galvanized		
Beam surface	▶ Painted RAL 5010, Gentian Blue	▶ Painted RAL 5010, Gentian Blue		



from pages

D4





## Required safety equipment for racks as per BGR 234

#### 1.1 End stand increase

by at least 500 mm above the top rack height

#### 1.2 Gangways

These must be covered (chipboard, grating). The clear gangway height must be at least 2,000 mm

#### 1.3 Safety distance

End stops must be fitted in double-racks at a safety distance of less than 100 mm between the pallets

#### 1.4 End Frames

Corner protectors must be fitted on all free-standing end frames. This also applies for gangways

#### 1.5 Single-row racks

If one side of a free-standing single-row rack it is not used for loading or unloading then this side must be secured, for example with a rear wall panel, to prevent loading units from falling out

#### 1.6 Front-to-back stacking

With front-to-back stacking, the pallets or containers have to be secured via front-to-back supports, chipboards or mesh panels. This does not apply to pallets, whose beams in run in the depth direction

#### 1.7 Load labels

These must be provided for all rack facilities



# Technical regulations for the pallet racking

#### 2.1 Rack rows

A rack row must consist of at least 3 rack fields

#### 2.2 Beam levels

There must be at least 2 beam levels per rack field

#### 2.3 Compartment heights

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

#### 2.4 Concrete quality of the hall floor

Minimum concrete quality of the hall floor: C20/25 as per DIN EN 19 921-1. Concrete thickness 200 mm



Information regarding inspection requirements

for rack systems

Chapter J, page J1



# PR 350 pallet racking

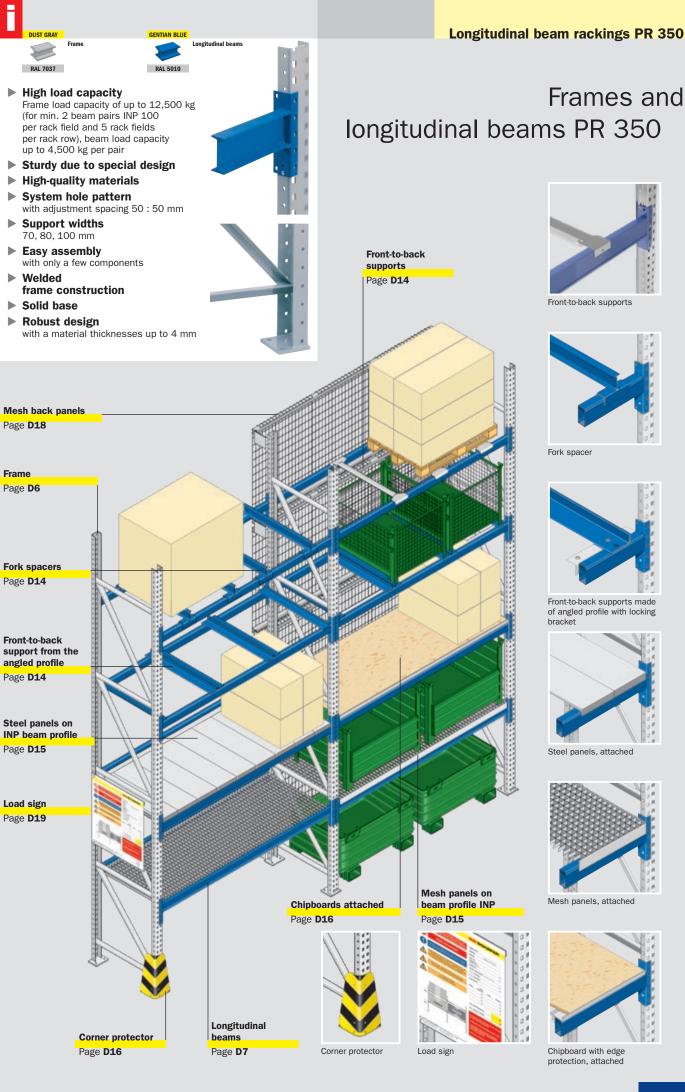
Longitudinal beam racks can be used universally for all tasks in the warehouse. Combined with suitable accessories, pallets and containers with even the most diverse dimensions can be stored optimally.

The PR 350 longitudinal beam rack is the further development of the robust and solid rack technology and represents the continuity at SSI SCHAEFER. The simple stacking system has been in use and thoroughly proven its qualities for more than 15 years.

The compatibility with other systems and extensive accessories allows the continuous expansion of existing equipment and rack solutions.







## PR 350 frame

#### Frame load capacity

1,000 mm

1,250 mm

1,500 mm

The permissible load capacity of the frame depends on the compartment height and the planned beam profile. The specified values apply for racks with at least 2 pairs of longitudinal beams/rack fields, rows with at least 5 rack fields and INP 100 beam profiles. The values vary depending on the beam profile.

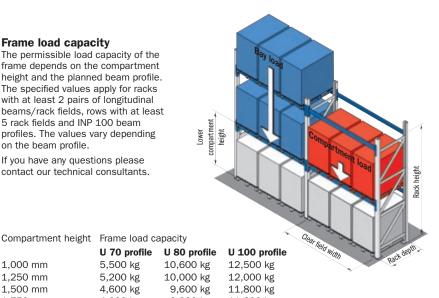
If you have any questions please contact our technical consultants.

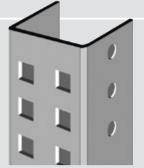
U 70 profile

5,500 kg

5,200 kg

4,600 kg





1,750 mm 4,000 kg 9,300 kg 11,600 kg 2,000 mm 3,650 kg 8,000 kg 10,000 kg 7,200 kg 9,000 kg 2,250 mm 3,300 kg 2,500 mm 2.900 kg 6.000 kg 7,500 kg Catalog dimensions 5,800 3,000 3,300 3,900 7,100 ,400 7,700 3,000 3,200 3,500 3,600 Other standard heights Item Frame Frame Order no. Frame Order no. Frame Frame Order no. Item Frame Item height depth height depth height depth (mm) (mm) (mm) (mm) (mm) (mm) U 70 profile RN 70258 2,500 850 126030 RN 70251 2,500 1,050 126390 RN 70252 2,500 1,250 126750 RN 70308 3,000 850 126090 RN 70301 3,000 1,050 126450 RN 70302 3,000 1,250 126810 126510 126870 RN 70368 3,600 850 126150 RN 70361 3,600 1.050 RN 70362 3.600 1.250 RN 70418 4,100 850 126210 RN 70411 4,100 1,050 126570 RN 70412 4,100 1,250 126930 4,700 126270 4,700 126630 1.250 126990 RN 70478 850 RN 70471 RN 70472 1.050 4.700 RN 70528 5,200 850 126330 RN 70521 5,200 1,050 126690 RN 70522 5,200 1,250 127050 U 80 profile RN 80258 2,500 850 126040 RN 80251 2.500 1.050 126400 RN 80252 2.500 1.250 126760 RN 80308 3,000 850 126100 RN 80301 3,000 1,050 126460 RN 80302 3,000 1,250 126820 RN 80368 3.600 850 126160 RN 80361 3.600 1.050 126520 RN 80362 3,600 1,250 126880 RN 80418 4,100 850 126220 RN 80411 1,050 126580 RN 80412 1,250 126940 4.100 4.100 RN 80478 4,700 850 126280 RN 80471 4,700 1,050 126640 RN 80472 4,700 1,250 127000 RN 80528 5,200 850 126340 RN 80521 5.200 1,050 126700 RN 80522 5,200 1.250 127060 RN 80588 5,800 850 127120 RN 80581 5,800 1,050 127480 RN 80582 5,800 1.250 127840

1.050

1,050

1.050

1,050

1,050

1,050

1.050

1,050

1,050

1.050

1,050

127540

127600

127660

126530

126590

126650

126710

127490

127550

127610

127670

RN 80632

RN 80692

RN 80742

RN 10362

RN 10412

RN 10472

RN 10522

RN 10582

RN 10632

RN 10692

RN 10742

6.300

6,900

7.400

3,600

4,100

4,700

5.200

5,800

6,300

6.900

7,400

Order no. = in stock

1.250

1,250

1.250

1,250

1,250

1,250

1.250

1,250

1.250

1,250

1,250

127900

127960

128020

126890

126950

127010

127070

127850

127910

127970

128030

RN 80638

RN 80698

RN 80748

RN 10418

RN 10478

RN 10528

RN 10588

RN 10638

RN 10698

RN 10748

U 100 profile RN 10368

6.300

6,900

7,400

3,600

4,100

4,700

5.200

5,800

6,300

6.900

7,400

850

850

850

850

850

850

850

850

850

850

850

127180

127240

127300

126170

126230

126290

126350

127130

127190

127250

127310

RN 80631

RN 80691

RN 80741

RN 10361

RN 10411

RN 10471

RN 10521

RN 10581

RN 10631

RN 10691

RN 10741

6.300

6,900

7.400

3,600

4,100

4,700

5.200

5.800

6,300

6.900

7,400

Longitudinal

beams





#### Support profiles

made from thick-walled U-profile. Welded together with horizontal and diagonal braces to create a stable frame.

System hole pattern 50 : 50 mm steps. Solid floor plates safely transfer the loads to the floor.

#### ▶ Longitudinal beams

with welded 5-hook rear lips. These guarantee an interlocking connection with the rack supports.

Adjustable using the system hole pattern 50:50 mm.

2 retaining pins (included in the scope of delivery) per section are required to prevent unintentional removal.

The load specifications apply for uniformly distributed loads.

The order numbers apply for one beam.

#### ► Longitudinal beam rack system dimensions Storage in depth direction

 Pallet dimensions
 Insertion depth
 Rack depth

 800 x 1,200 mm
 1,200 mm
 1,050 mm

 1,000 x 1,200 mm
 1,200 mm
 1,050 mm

 1,200 mm
 1,050 mm
 1,050 mm

#### Storage in transverse direction

 Pallet dimensions
 Insertion depth
 Rack depth

 800 x 1,200 mm
 800 mm
 850 mm

 1,000 x 1,200 mm
 1,000 mm
 1,050 mm





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PR 350 accessories

from page **D14** 

Longitudinal	beams wi	th INP pr	ofile								
Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.
Length 1,800 mm				Length 2,200 m	ım			Length 2,700 m	m		
TRN1-180-08-I	3,000	INP 80	323560	TRN1-220-08-I	2,500	INP 80	323600	TRN1-270-08-I	2,100	INP 80	323650
TRN1-180-10-I	4,500	INP 100	323720	TRN1-220-10-I	4,200	INP 100	323760	TRN1-270-10-I	3,500	INP 100	323810
								TRN1-270-12-I	4,500	INP 120	324030
Length 2,900 n TRN1-290-08-I TRN1-290-10-I TRN1-290-12-I	1,900 3,300 4,500	INP 80 INP 100 INP 120	323670 323830 324050	Length 3,300 m TRN1-330-08-I TRN1-330-10-I TRN1-330-12-I	1,400 2,700 4,400	INP 80 INP 100 INP 120	323710 323870 324090	2			
Length 3,600 n TRN1-360-10-I TRN1-360-12-I	2,300 3,900	INP 100 INP 120	323900 324120	Length 3,900 m TRN1-390-10-I TRN1-390-12-I	2,000 3,400	INP 100 INP 120	323930 324150	2			•
	ľ				ľ			2			>

Lander Park		u. 0 <b>.</b>	C11 -								
Longitudinal be	eams wi	tn CE pro	riie								
Item	Load/	Profile	Order no.	Item	Load/	Profile	Order no.	Item	Load/	Profile	Order no.
	pair (kg)	type			pair (kg)	type			pair (kg)	type	
Length 1,800 mm	1			Length 2,200 mm	1			Length 2,700 mn	1		
TRN1-180-085-30 CE	3,200	CE 80	324220	TRN1-220-085-30 CE	2,500	CE 80	324230	TRN1-270-085-30 CE	1,700	CE 80	324240
TRN1-180-105-30 CE	4,200	CE 100	on req.	TRN1-220-105-30 CE	3,500	CE 100	on req.	TRN1-270-105-30 CE	2,600	CE 100	on req.
TRN1-180-115-30 CE	4,500	CE 110	324300	TRN1-220-115-30 CE	3,900	CE 110	324310	TRN1-270-115-30 CE	3,000	CE 110	324320
								TRN1-270-125-30 CE	3,600	CE 120	on req.
								TRN1-270-145-30 CE	4,300	CE 140	312850
Length 2,900 mm	1			Length 3,300 mm	1				_		
TRN1-290-085-30 CE	1,500	CE 80	on req.	TRN1-330-115-30 CE	2,200	CE 110	324340		9		
TRN1-290-105-30 CE	2,300	CE 100	on req.	TRN1-330-125-30 CE	2,600	CE 120	on req.	8			
TRN1-290-115-30 CE	2,700	CE 110	324330	TRN1-330-145-30 CE	3,100	CE 140	312910				
TRN1-290-125-30 CE	3,200	CE 120	on req.								
TRN1-290-145-30 CE	3,800	CE 140	312870								
Length 3,600 mm	1			Length 3,900 mm	1						
TRN1-360-115-30 CE	1,900	CE 110	324350	TRN1-390-145-30 CE	2,300	CE 140	312970	10	A		
TRN1-360-125-30 CE	2,300	CE 120	on req.								
TRN1-360-145-30 CE	2,700	CE 140	312940					<b>B</b>	9		

<sup>\*</sup> Minimum order quantity on request.

# PR 600 – the modern pallet racking system

The PR 600 rack system is characterized by its diverse, versatile configuration options. This enables the implementation of all designs including longitudinal beams, front-to-back beams and drive-in racking systems for maximum storage capacity with a minimum volume.

One advantage that frequently does not come into play until later is the

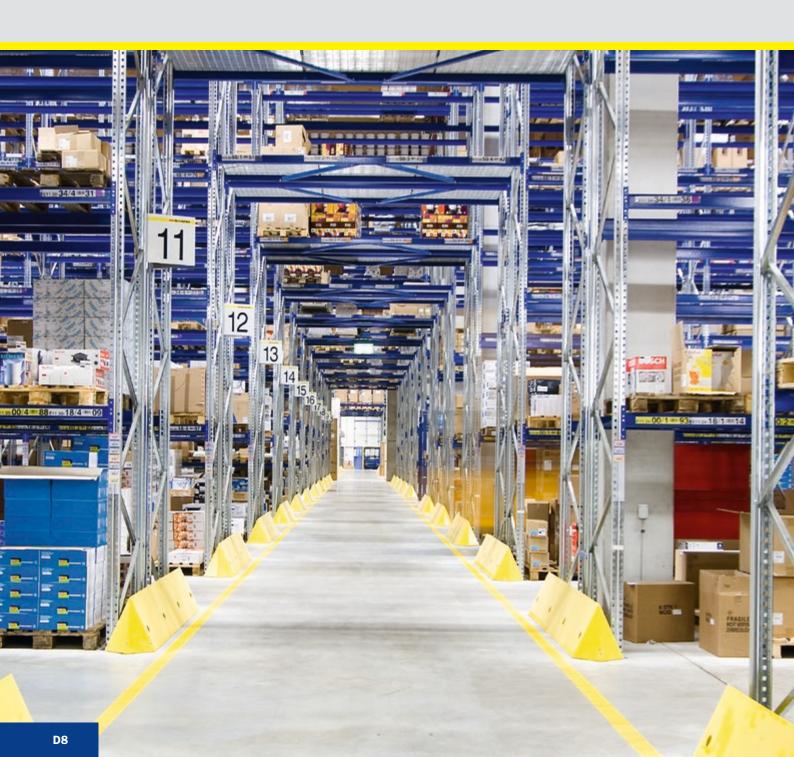
ability to adapt the system to changing circumstances. The rack frames are bolted together and also designed for the highest loads.

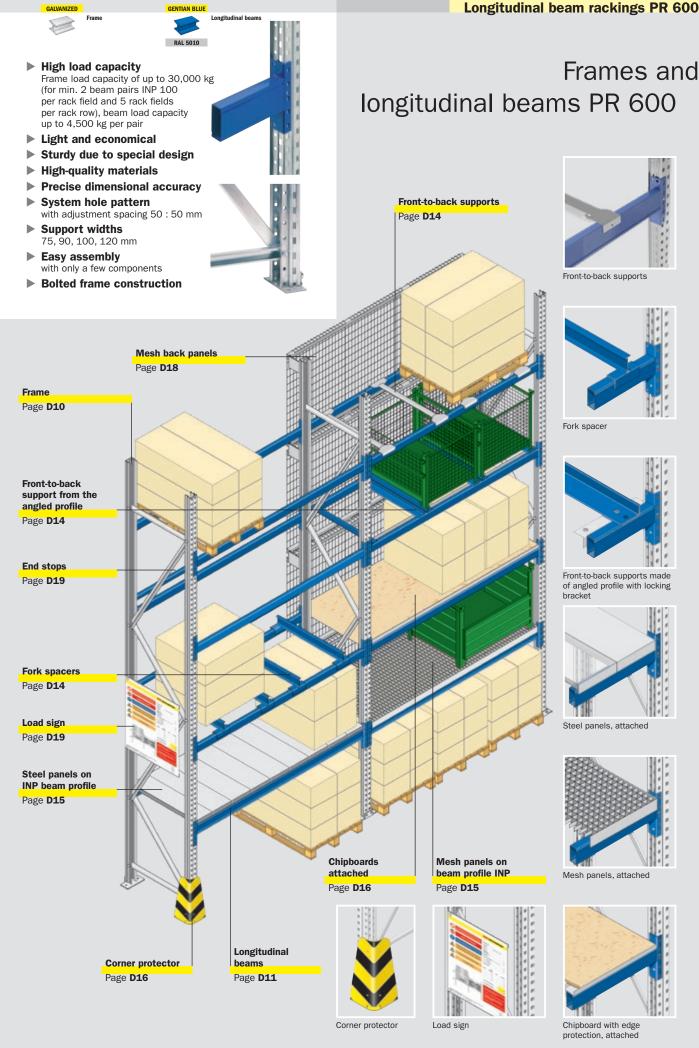
This is a modern pallet racking system – a versatile stacking system for individual solutions.

#### Tested quality

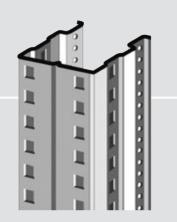
PR 600 longitudinal beam racks have the RAL-RG 614/2 seal of quality. Compliance with the criteria is checked twice per year by an independent authority. This guarantees that both the material and the production fulfill the high quality requirements.







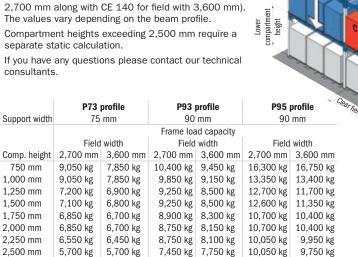
## PR 600 frame



#### Frame load capacity

The permissible bay load capacity of the frame depends on the compartment height and the the planned beam profile. The specified values apply for racks with at least 2 pairs of longitudinal beams/rack field, rows with at least 5 rack fields and CE 110 for fields width 2,700 mm along with CE 140 for field with 3,600 mm). The values vary depending on the beam profile.

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



# Other frame profiles PR 600 accessories on request from page **D12** Catalog dimensions 006'9 7,100 Other standard heights P 73 profile

Item	Frame	Order no.	Item	Frame	Order no.	Item	Frame	Order no.
	height (mm)			height (mm)			height (mm)	
Frame depth 850	mm	1	Frame depth 1,05	60 mm	1	Frame depth 1,250 mm		
RV1-773-0250-085	2,500	307280	RV1-773-0250-105	2,500	307520	RV1-773-0250-125	2,500	307760
RV1-773-0300-085	3,000	307290	RV1-773-0300-105	3,000	307530	RV1-773-0300-125	3,000	307770
RV1-773-0360-085	3,600	307300	RV1-773-0360-105	3,600	307540	RV1-773-0360-125	3,600	307780
RV1-773-0410-085	4,100	307310	RV1-773-0410-105	4,100	307550	RV1-773-0410-125	4,100	307790
RV1-773-0470-085	4,700	307320	RV1-773-0470-105	4,700	307560	RV1-773-0470-125	4,700	307800
RV1-773-0520-085	5,200	307330	RV1-773-0520-105	5,200	307570	RV1-773-0520-125	5,200	307810
P 93 profile								
RV1-973-0250-085	2,500	307340	RV1-973-0250-105	2,500	307580	RV1-973-0250-125	2,500	307820
RV1-973-0300-085	3,000	307350	RV1-973-0300-105	3,000	307590	RV1-973-0300-125	3,000	307830
RV1-973-0360-085	3,600	307360	RV1-973-0360-105	3,600	307600	RV1-973-0360-125	3,600	307840
RV1-973-0410-085	4,100	307370	RV1-973-0410-105	4,100	307610	RV1-973-0410-125	4,100	307850
RV1-973-0470-085	4,700	307380	RV1-973-0470-105	4,700	307620	RV1-973-0470-125	4,700	307860
RV1-973-0520-085	5,200	307390	RV1-973-0520-105	5,200	307630	RV1-973-0520-125	5,200	307870
RV1-973-0580-085	5,800	307400	RV1-973-0580-105	5,800	307640	RV1-973-0580-125	5,800	307880
RV1-973-0630-085	6,300	307410	RV1-973-0630-105	6,300	307650	RV1-973-0630-125	6,300	307890
RV1-973-0690-085	6,900	307420	RV1-973-0690-105	6,900	307660	RV1-973-0690-125	6,900	307900
RV1-973-0740-085	7,400	307430	RV1-973-0740-105	7,400	307670	RV1-973-0740-125	7,400	307910
P 95 profile								
RV1-975-0360-085	3,600	307440	RV1-975-0360-105	3,600	307680	RV1-975-0360-125	3,600	307920
RV1-975-0410-085	4,100	307450	RV1-975-0410-105	4,100	307690	RV1-975-0410-125	4,100	307930
RV1-975-0470-085	4,700	307460	RV1-975-0470-105	4,700	307700	RV1-975-0470-125	4,700	307940
RV1-975-0520-085	5,200	307470	RV1-975-0520-105	5,200	307710	RV1-975-0520-125	5,200	307950
RV1-975-0580-085	5,800	307480	RV1-975-0580-105	5,800	307720	RV1-975-0580-125	5,800	307960
RV1-975-0630-085	6,300	307490	RV1-975-0630-105	6,300	307730	RV1-975-0630-125	6,300	307970
RV1-975-0690-085	6,900	307500	RV1-975-0690-105	6,900	307740	RV1-975-0690-125	6,900	307980
RV1-975-0740-085	7,400	307510	RV1-975-0740-105	7,400	307750	RV1-975-0740-125	7,400	307990

Order no. = in stock

Longitudinal

beams





#### Support profiles

Made of cold rolled, high-strength steel. Their special shape makes the supports highly rigid. These are bolted together with horizontal and diagonal braces to create a sturdy frame. Delivered unassembled.

System hole pattern 50 : 50 mm steps.

Solid floor plates safely transfer the loads to the floor.

#### ▶ Longitudinal beams

with welded 5-hook rear lips. These guarantee an interlocking connection with the rack supports.

Adjustable using the system hole pattern 50:50 mm.

2 retaining pins (included in the scope of delivery) per section are required to prevent unintentional removal.

The load specifications apply for uniformly distributed loads.

The order numbers apply for one beam.

#### ► Longitudinal beam rack system dimensions Storage in depth direction

 Pallet dimensions
 Insertion depth
 Rack depth

 800 x 1,200 mm
 1,200 mm
 1,050 mm

 1,000 x 1,200 mm
 1,200 mm
 1,050 mm

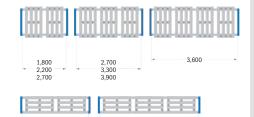
 1,200 x 1,200 mm
 1,050 mm
 1,050 mm

#### Storage in transverse direction

 Pallet dimensions
 Insertion depth
 Rack depth

 800 x 1,200 mm
 800 mm
 850 mm

 1,000 x 1,200 mm
 1,000 mm
 1,050 mm



# П

#### Compatible with WR 600 longspan racking systems

Chapter C, from page C1

#### Longitudinal beams with INP profile Profile Order no. Item Profile Order no. Item Profile Item Load/ Load/ Load/ Order no. pair (kg) pair (kg) type pair (kg) type Length 1,800 mm Length 2,200 mm Length 2,700 mm INP 80 INP 80 2.500 INP 80 321540 TRV1-270-08-I 2.100 TRV1-180-08-I 3.000 321500 TRV1-220-08-I 321590 TRV1-180-10-I **INP 100** 321660 TRV1-220-10-I INP 100 TRV1-270-10-I INP 100 321750 4,500 4,200 321700 3,500 TRV1-270-12-I 4.500 INP 120 321970 Length 2,900 mm Length 3,300 mm TRV1-290-08-I 1,900 321610 TRV1-330-08-I 1,400 321650 INP 80 INP 80 TRV1-290-10-I 3,300 **INP 100** 321770 TRV1-330-10-I 2,700 **INP 100** 321810 TRV1-290-12-I 4,500 INP 120 321990 TRV1-330-12-I 4,400 INP 120 322030 Length 3,600 mm Length 3,900 mm 2,300 2,000 TRV1-360-10-I **INP 100** 321840 TRV1-390-10-I **INP 100** 321870 TRV1-360-12-I 3,900 **INP 120** 322060 TRV1-390-12-I 3,400 INP 120 322090

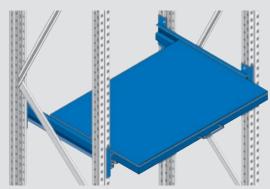
Longitudinal beams with CE profile											
Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.	Item	Load/ pair (kg)	Profile type	Order no.
Length 1,800 mm	1			Length 2,200 mm	1			Length 2,700 mm	1		
TRV1-180-085-30 CE	3,200	CE 80	322160	TRV1-220-085-30 CE	2,500	CE 80	322200	TRV1-270-085-30 CE	1,700	CE 80	322250
TRV1-180-105-30 CE	4,200	CE 100	on req.	TRV1-220-105-30 CE	3,500	CE 100	on req.	TRV1-270-105-30 CE	2,600	CE 100	on req.
TRV1-180-115-30 CE	4,500	CE 110	322720	TRV1-220-115-30 CE	3,900	CE 110	322760	TRV1-270-115-30 CE	3,000	CE 110	322810
								TRV1-270-125-30 CE	3,600	CE 120	on req.
								TRV1-270-145-30 CE	4,300	CE 140	323370
Length 2,900 mm		05.00		Length 3,300 mm		05110	200070				
TRV1-290-085-30 CE		CE 80	on req.	TRV1-330-115-30 CE		CE 110	322870				
TRV1-290-105-30 CE TRV1-290-115-30 CE	-	CE 100 CE 110	on req.	TRV1-330-125-30 CE TRV1-330-145-30 CE		CE 120 CE 140	on req.				
TRV1-290-115-30 CE		CE 120	on req.	1KV1-33U-143-3U CE	3,100	GE 140	323430	0			
TRV1-290-125-30 CE	-	CE 120	323390								
1KV1-230-143-30 0L	3,000	OL 140	323330					ė			
Length 3,600 mm	1			Length 3,900 mm	1						
TRV1-360-115-30 CE	1,900	CE 110	322900	TRV1-390-145-30 CE	2,300	CE 140	323490				
TRV1-360-125-30 CE	2,300	CE 120	on req.								
TRV1-360-145-30 CE	2,700	CE 140	323460								

<sup>\*</sup> Minimum order quantity on request.

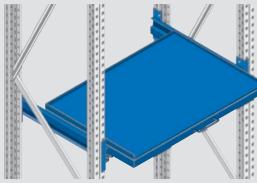


## PR 600 accessories

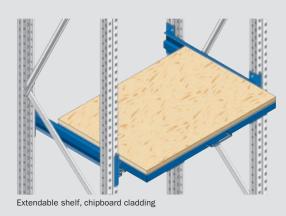




Extendable shelf, sheet metal cladding, smooth



Extendable shelf, sheet metal cladding, 3-sided rolling edge



#### Heavy duty extendable shelves

Precision construction made of welded steel profile with precise steel ball bearings. The guide rails are bolted to the frame and can be adjusted using the system hole pattern of 50:50 mm. A double lock secures the extendable shelf when it is pulled out and pushed in. Load capacity of up to 1,000 kg with an evenly distributed load.

Heavy duty extendable shelves, 67% extendable							
	Item	Frame depth (mm)	Usable depth (mm)	Extension length (mm)	Load		

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Item	Frame depth (mm)	Usable depth (mm)	Extension length (mm)	Load capacity (kg)	Order no.			
Extendable	shelf, sheet	metal cladd	ing, smooth					
For racks with clear field width 900 mm, usable width 800 mm.								
AB 08.091	850	800	530	1,000	143230			
AB 12.091	1,250	1,200	830	1,000	143260			
For racks with	th clear field	width 1,300	mm, usable	width 1,200	mm.			
AB 08.131	850	800	530	1,000	143290			
AB 12.131	1,250	1,200	830	1,000	143320			
Extendable	shelf, sheet	metal cladd	ing, 3-sided r	olling edge				
For racks with	th clear field	width 900 n	nm, usable wi	dth 800 mm				
AB 08.092	850	800	530	1,000	143240			
AB 12.092	1,250	1,200	830	1,000	143270			
For racks with	th clear field	width 1,300	mm, usable	width 1,200	mm.			
AB 08.132	850	800	530	1,000	143300			
AB 12.132	1,250	1,200	830	1,000	143330			
Extendable	shelf, chipbo	oard cladding	g S					
For racks with	th clear field	width 900 n	nm, usable wi	dth 800 mm				
AB 08.093	850	800	530	1,000	143250			
AB 12.093	1,250	1,200	830	1,000	143280			
For racks with clear field width 1,300 mm, usable width 1,200 mm								
AB 08.133	850	800	530	1,000	143310			
AB 12.133	1.250	1.200	830	1.000	143340			

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AB 08.133	850	800	530	1,000	143310
AB 12.133	1,250	1,200	830	1,000	143340

#### Heavy duty extendable shelves, 100 % extendable Usable Extension Load depth (mm) depth (mm) length (mm) capacity (kg) Extendable shelf, sheet metal cladding, smooth For racks with clear field width 900 mm, usable width 800 mm. AB 08.091 V 850 1,000 143800 AB 12.091 V 1,250 1,200 1,200 1,000 143860 For racks with clear field width 1,300 mm, usable width 1,200 mm. AB 08.131 V 850 800 800 1,000 143830 **AB 12.131 V** 1,250 1,200 1,200 143890

Extendable :	shelf, she	et metal clad	lding, 3-side	d rolling edge			
For racks wit	h clear fie	ld width 900	mm, usable	width 800 mm			
AB 08.092 V	850	800	800	1,000	143810		
AB 12.092 V	1,250	1,200	1,200	1,000	143870		
For racks wit	h clear fie	ld width 1,30	00 mm, usab	ole width 1,200	mm.		
AB 08.132 V	850	800	800	1,000	143840		
AB 12.132 V	1,250	1,200	1,200	1,000	143900		
Extendable	shelf, chip	board claddi	ng				
For racks wit	h clear fie	ld width 900	mm, usable	width 800 mm			
AB 08.093 V	850	800	800	1,000	143820		
AB 12.093 V	1,250	1,200	1,200	1,000	143880		
For racks with clear field width 1,300 mm, usable width 1,200							
AB 08.133 V	850	800	800	1,000	143850		

1,200

1,200

**AB 12.133 V** 1,250

Order no. = in stock

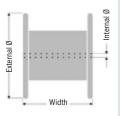
143910

1,000



#### ► Cable drum sizes as per DIN 46 391

Casic aram 61266 do por 5111 10 002										
		External Ø (mm)	Internal Ø (mm)	Width (mm)	Clear field width (mm)	Max. load-bearing capacity (kg)				
Ν	5	470	56	470	900	100				
Ν	6	630	56	470	900	100				
Ν	7	710	80	550	900	250				
Ν	8	800	80	550	900	650				
Ν	9	900	80	710	1,100	800				
Ν	10	1,050	80	710	1,100	1,000				
Ν	12	1,250	80	930	1,300	1,500				
	No siz N N N N N	Nominal size  N 5  N 6  N 7  N 8	Nominal size         External Ø (mm)           N 5         470           N 6         630           N 7         710           N 8         800           N 9         900           N 10         1,050	Nominal size         External Ø (mm)         Internal Ø (mm)           N 5         470         56           N 6         630         56           N 7         710         80           N 8         800         80           N 9         900         80           N 10         1,050         80	Nominal size         External Ø (mm)         Internal Ø (mm)         Width (mm)           N 5         470         56         470           N 6         630         56         470           N 7         710         80         550           N 8         800         80         550           N 9         900         80         710           N 10         1,050         80         710	size         (mm)         (mm)         (mm)         width (mm)           N 5         470         56         470         900           N 6         630         56         470         900           N 7         710         80         550         900           N 8         800         80         550         900           N 9         900         80         710         1,100           N 10         1,050         80         710         1,100				



### Accessories

#### Cable drum axles

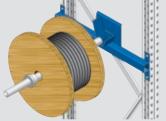
Cable drum axles made of hollow profile for fitting the cable drum.

Item	Clear field width (mm)	Design for	Cone type	for cable drums	Order no.
TRA KM 0905	900	Type KM	AK 33	N 5 - N 6	on req.
TRA KB 0905 TRA KM 0910		Type KB Type KM	AK 33 AK 48	N 5 - N 6 N 7 - N 8	on req.
TRA KB 0910 TRA KM 1105	1.100	Type KB Type KM	AK 48 AK 33	N 7 - N 8 N 5 - N 6	on req.
TRA KB 1105	1,100	Type KB	AK 33	N 5 - N 6	on req.
TRA KM 1110 TRA KB 1110		Type KM Type KB	AK 48 AK 48	N 7 - N 8 N 7 - N 8	on req.
TRA KM 1115 TRA KB 1115		Type KM Type KB	AK 60 AK 60	N 9 - N 10 N 9 - N 10	on req.
TRA KM 1315	1,300	Type KM	AK 60	N 9 - N 12	on req.
TRA KB 1315		Type KB	AK 60	N 9 - N 12	on req.

#### Cones

With the adjusting screw for centering the cable drum on the shaft.

Item	for cable drums	Material	Order no.
AK 33	N 5 - N 6	Polyamide	on req.
AK 48	N 7 - N 8	Polyamide	on req.
AK 60	N 9 - N 12	Polyamide	on req.





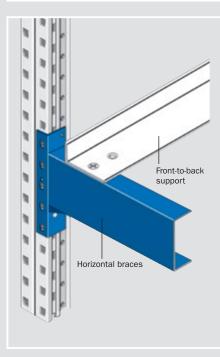
QT KM cable drum beam

QT KB cable drum beam

#### **Cable drum beams**

Cable drum beams made of square hollow profile are bolted onto the rack supports. Adjustment 50:50 mm, shaft fitting with tray or with friction liner as a load-dependent brake and for low-noise unwinding.

Item	Frame depth (mm)	Туре	for cable drums	Order no.
QT KM 6208	850	with tray	N 5 - N 12	on req.
QT KM 6210	1,050	with tray	N 5 - N 12	on req.
QT KB 6208	850	with friction lining	N 5 - N 12	on req.
QT KB 6210	1,050	with friction lining	N 5 - N 12	on req.



#### U 100 horizontal braces

With welded 5-hook rear lips guarantee an interlocking connection with the rack supports. Adjustment 50:50 mm steps.

4 retaining pins (included) per pair are required to prevent unintentional removal.

With holes for mounting the front-to-back supports.

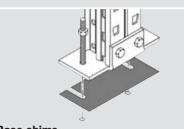
Item	Length (mm)	Pallet/ container depth (mm)	Order no.
LVU 090	900	800	116930
LVU 110	1,100	1,000	116940
LVU 130	1.300	1.200	116950

#### Floor anchor

The frame needs to be anchored to ensure the stability of the pallet racking systems. M10 expansion anchors are used for a normal C20/25 concrete floor; M10 adhesive anchors are used for floors containing magnesium.

Item		Order no.
<b>BA 10 SL</b>	M 10 expansion anchor	67030
BA 10 VA	M 10 adhesive anchor	67390





#### **Base shims**

To compensate for uneven ground, galvanized.

gaivariizci	u.		
Item	Thickness (mm)	Support profile	Order no.
for PR 350	pallet rackin	g systems	
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 PR 600	pallet rackin	g systems	
AP 60.91	1	all	143150
AP 60.92	2	all	155010

#### Insulation plates

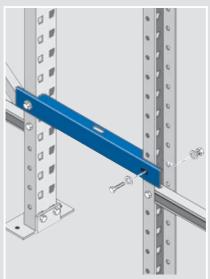
Insulation plates made of plastic are needed for each rack support in order to prevent corrosion on floors containing magnesium.

Item	Thickness (mm)	Support profile	Order no		
for PR 350	pallet racking	gs			
IP 35.81	1	U 70	151040		
IP 35.81	1	U 80	151040		
IP 35.11	1	U 100	151050		
for PR 600 pallet rackings					
IP 60.91	1	all	155020		





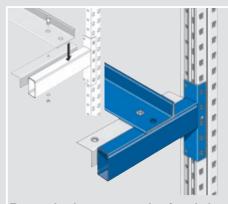
# Accessories for PR 350 and PR 600



#### **Spacers**

Two single-row racks can be positioned one behind the other and then connected with spacers to form double-row racks. The length of the spacers is calculated from the difference between the rack depth and loading aids/loading unit plus 100 mm.

Item	Distance (mm)	Order no.
D 50 L	50	151060
D 100 L	100	151070
D 150 L	150	151080
D 200 L	200	151090
D 250 L	250	151100
D 300 L	300	151110
D 350 L	350	151120
D 400 L	400	151130
D 450 L	450	151140
D 500 L	500	151150



#### Fixing angle for front-to-back supports

Fitting options for front-to-back supports, either designed for euro pallets, industrial pallets or DIN-box mesh box pallets.

Item	Clear field width (mm)	Order no.
		1
AW 18	1,800	155030
AW 22	2,200	155040
AW 27	2,700	155050
AW 29	2,900	155060
AW 33	3,300	155070
AW 36	3,600	155080
AW 39	3,900	155090

#### Front-to-back support made of angled profile for pallet and container storage

For the fitting loading aids in pallet racking systems. Loading aids for each pair of front-to-back supports are required for containers without a stable support surface on longitudinal beams. In the case of transverse storage of pallets and containers, one pair of front-to-back supports are required for each loading aid. Locking brackets are required for fastening and securing against sliding on the longitudinal beams (as fig. above).

#### Cross section L 80/40/6

Load capacity up to 1,000 kg

Without backstop					
Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.		
QA85	850	800	155100		
QA105	1,050	1,000	155120		
QA125-10	1,050	1,200	155260		
0A125	1.250	1.200	155140		

with 30 m	m backstop		
Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
QA85A	850	800	155110
QA105A	1,050	1,000	155130
QA125-10A	1,050	1,200	155280
QA125A	1,250	1,200	155150

#### Cross section L 100/50/6

Load capacity up to 1,500 kg

#### Without backstop Frame

Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no.
QA855	850	800	155160
QA1055	1,050	1,000	155180
QA1255-10	1,050	1,200	155270
QA1255	1,250	1,200	155200

#### With 40 mm backstop

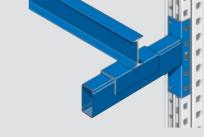
Item	Frame depth (mm)	Pallet/ container depth (mm)	Order no
QA855A	850	800	155170
QA1055A	1,050	1,000	155190
QA1255-10A	1,050	1,200	155290
QA1255A	1,250	1,200	155210



#### Front-to-back supports

The front-to-back supports are placed between the beams. The load specifications apply for uniformly distributed loads. For point loads they are not suitable.

Item	Frame depth (mm)	Max. pallet weight with 2 front-to-back supports (kg)	Order no.
TA-C-085-10	850	1.000	6700196
TA-C-105-10	1.050	1.000	6700197



#### Fork spacers

For storing wooden pallets, sheet metal packages, boxes, containers or other large storage objects. Ground clearance for forklifts 100 mm,  $\,$ max. load per piece 2,000 kg for evenly distributed loads.

Item	for frame depth (mm)	Order no.
QU 851	850	155220
QU 1051	1,050	155230
QU 1251	1,250	155240

Order no. = in stock



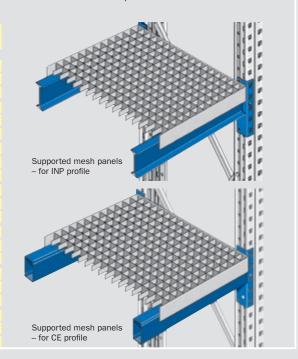
# Accessories for PR 350 and PR 600

#### Mesh panels

Placed on longitudinal beams and locked in place. Mesh size  $33 \times 33$  mm. Two-piece for clear field width 2,200 mm. The load specifications apply for evenly distributed loads. The variants listed are not suitable for point loads. Other versions available on request.

#### Supported mesh panels for INP and CE beam profiles

Supported mesh pa	Supported mesh panels for INP and CE beam profiles					
Item	Frame depth (mm)	Clear field width (mm)	Support member height (mm)	Compartment load (kg)	Order no.	
F0440 00F 20 424V	050	1.000	20	1.000	150000	
FGA18-085-30-134X	850	1,800	30	1,600	156090	
FGA18-105-30-134X	1,050	1,800	30	1,400	156160	
FGA18-125-35-140X	1,250	1,800	35	1,500	156230	
FGA22-085-30-134X	850	2,200	30	2,000	156100	
FGA22-105-30-134X	1,050	2,200	30	1,700	156170	
FGA22-125-35-140X	1,250	2,200	35	1,900	156240	
FGA27-085-30-134X	850	2,700	30	2,500	156110	
FGA27-105-30-134X	1,050	2,700	30	2,100	156180	
FGA27-125-35-140X	1,250	2,700	35	2,300	156250	
FGA29-085-30-134X	850	2,900	30	2,700	156120	
FGA29-105-30-134X	1,050	2,900	30	2,300	156190	
FGA29-125-35-140X	1,250	2,900	35	2,500	156260	
FGA33-085-30-134X	850	3,300	30	3,000	156130	
FGA33-105-30-134X	1,050	3,300	30	2,600	156200	
FGA33-125-35-140X	1,250	3,300	35	2,900	156270	
FGA36-085-30-134X	850	3,600	30	3,300	156140	
FGA36-105-30-134X	1,050	3,600	30	2,800	156210	
FGA36-125-35-140X	1,250	3,600	35	3,100	156280	
FGA39-085-30-134X	850	3,900	30	3,500	156150	
FGA39-105-30-134X	1,050	3,900	30	3,100	156220	
FGA39-125-35-140X	1,250	3,900	35	3,400	156290	



#### Sheet steel panels

C-shaped bevel. Locking in depth direction through short-side overlap of the beams. Individual or multiple covers can be used. The load specifications apply for evenly distributed loads.

Clear field width (mm)	Panel width (mm)	Number of panels
1,800	300	6
2,200	300	6
	200	2
2,700	300	9
2,900	300	9
	200	1

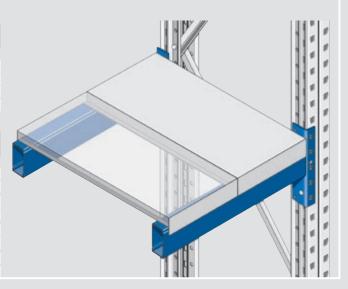
Clear field width (mm)	Panel width (mm)	Number of panels
3,300	300	11
3,600	300	12
3,900	300	13

#### Panel width 200 mm

Item	for frame depth (mm)	Load (kg)	Order no.
FPA 20-070-40-40X	700	400	193140
FPA 20-085-40-40X	850	400	193150
FPA 20-105-40-40X	1,050	300	193160
FPA 20-125-40-40X	1,250	200	193170

#### Panel width 300 mm

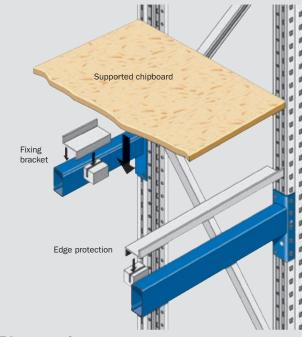
Panel Width 300 mm					
Item	for frame depth	Load	Order no.		
	(mm)	(kg)			
			1		
FPA 30-070-40-30X	700	300	193100		
FPA 30-070-40-50X		440	193180		
FPA 30-085-40-30X	850	300	193110		
FPA 30-085-40-50X		440	193190		
FPA 30-105-40-30X	1,050	240	193120		
FPA 30-105-40-50X		360	193200		
FPA 30-125-40-30X	1,250	190	193130		
FPA 30-125-40-50X		280	193210		



# Accessories for PR 350 and PR 600, safety accessories for pallet racking systems

#### Chipboard

Placed on the profile of the INP or CE longitudinal beams. Secured against moving with fixing brackets. Two-piece for clear field widths exceeding 3,300 mm. The load specifications apply for evenly distributed loads. The variants listed are not suitable for point loads. Other versions available on request. Surface: untreated.



#### **Edge protection**

For 38 mm chipboard and INP/CE longitudinal beams, incl. spacers.

Item	Clear field width (mm)	Order no.
KN 1824	1,800	157140
KN 2224	2,200	157150
KN 2724	2,700	157160
KN 2924	2,900	157170
KN 3324	3,300	157180
KN 3624	3,600	157190
KN 3924	3,900	157200

#### Fixing bracket

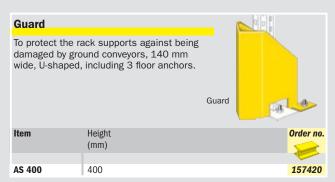
For 38 mm chipboard and INP/CE longitudinal beams. 4 fixing brackets are required for the clear field width 1,800 to 2,900 mm and 8 for the clear field width 3,300 to 3,900 mm.

FSHB 24	Fixing bracket, incl. spacer block (plastic)	1 pc.	156910
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38 mm thick, norr	nal compress	ion for INP an	d CE profiles	
Item	Frame	Clear field	Comp. load	Order no
	depth (mm)	width (mm)	(kg)	
FSA 18-085-38-NX	850	1,800	1,300	306840
FSA 18-105-38-NX	1,050	1,800	950	306980
FSA 18-125-38-NX	1,250	1,800	600	307120
FSA 22-085-38-NX	850	2,200	1,600	306850
FSA 22-105-38-NX	1,050	2,200	1,100	306990
FSA 22-125-38-NX	1,250	2,200	750	307130
FSA 27-085-38-NX	850	2,700	2,000	306860
FSA 27-105-38-NX	1,050	2,700	1,400	307000
FSA 27-125-38-NX	1,250	2,700	900	307140
FSA 29-085-38-NX	850	2,900	2,200	306870
FSA 29-105-38-NX	1,050	2,900	1,500	307010
FSA 29-125-38-NX	1,250	2,900	1,000	307150
FSA 33-085-38-NX	850	3,300	2,500	306880
FSA 33-105-38-NX	1,050	3,300	1,700	307020
FSA 33-125-38-NX	1,250	3,300	1,100	307160
FSA 36-085-38-NX	850	3,600	2,700	306890
FSA 36-105-38-NX	1,050	3,600	1,900	307030
FSA 36-125-38-NX	1,250	3,600	1,200	307170
FSA 39-085-38-NX	850	3,900	2,900	306900
FSA 39-105-38-NX	1,050	3,900	2,000	307040
FSA 39-125-38-NX	1,250	3,900	1,300	307180
38 mm thick, high	ly compresse	ed for INP and	CE profiles	
Item	Frame	Clear field	Comp. load	Order no
	depth (mm)	width (mm)	(kg)	
FSA 18-085-38-HX	850	1,800	2,100	306910
FSA 18-105-38-HX	1,050	1,800	1,500	307050

Item	Frame depth (mm)	Clear field width (mm)	Comp. load (kg)	Order no.
FSA 18-085-38-HX	850	1,800	2,100	306910
FSA 18-105-38-HX	1,050	1,800	1,500	307050
FSA 18-125-38-HX	1,250	1,800	1,000	307190
FSA 22-085-38-HX	850	2,200	2,600	306920
FSA 22-105-38-HX	1,050	2,200	1,900	307060
FSA 22-125-38-HX	1,250	2,200	1,300	307200
FSA 27-085-38-HX	850	2,700	3,200	306930
FSA 27-105-38-HX	1,050	2,700	2,300	307070
FSA 27-125-38-HX	1,250	2,700	1,600	307210
FSA 29-085-38-HX	850	2,900	3,500	306940
FSA 29-105-38-HX	1,050	2,900	2,500	307080
FSA 29-125-38-HX	1,250	2,900	1,700	307220
FSA 33-085-38-HX	850	3,300	4,000	306950
FSA 33-105-38-HX	1,050	3,300	2,800	307090
FSA 33-125-38-HX	1,250	3,300	1,900	307230
FSA 36-085-38-HX	850	3,600	4,000	306960
FSA 36-105-38-HX	1,050	3,600	3,100	307100
FSA 36-125-38-HX	1,250	3,600	2,100	307240
FSA 39-085-38-HX	850	3,900	4,000	306970
FSA 39-105-38-HX	1,050	3,900	3,300	307110
FSA 39-125-38-HX	1,250	3,900	2,300	307250

# Corner protector Sturdy, angle profile with strong floor plate, including an anchor for attachment to the hall floor. ES 400 C corner protector Item Height (mm) ES 400 C 400 157390



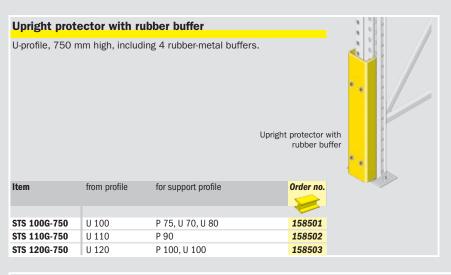
Order no. = in stock

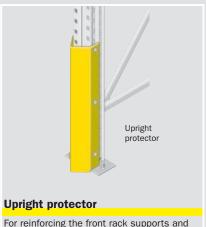


#### Security regulations

Fixed racks that are served by non-track-bound ground conveyors require adequate protection against damage to the rack frame on the corners and gangways

# Safety accessories for pallet racking systems





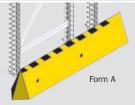
For reinforcing the front rack supports and as a protection against damage, 750 mm high, including fixing kit.

for PR 350 system:					
Item	for support width (mm)	Height (mm)	for support profile	Order no.	
STS 70-3-400	70	400	U 70	158500	
STS 70-3-750	70	750	U 70	158570	
STS 80-3-400	80	400	U 80	158510	
STS 80-3-750		750	U 80	158580	
STS 100-3-400	100	400	U 100	158520	
STS 100-3-750		750	U 100	158590	

#### for PR 600 system: for support Height for support Order no. width (mm) (mm) profile STS 75-6-400 P 75 158530 75 400 STS 75-6-750 750 P 75 158600 STS 90-6-400 Р 90 158540 STS 90-6-750 750 P 90 158610 STS 100-6-400 100 400 P 100 158550 STS 100-6-750 750 P 100 158620 STS 120-6-400 400 P 120 158560 STS 120-6-750 750 P 120 158630

#### Buffer

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







#### Form A

 $400~\rm mm$  high,  $250~\rm mm$  wide, short side for optimum transfer of the impact forces into the floor, including floor anchors.

Item	for frame depth (mm)	Order no.
		· ·
RS 854 A	850	157800
RS 1054 A	1,050	157810
RS 1254 A	1,250	157820
RS 1804 A	1,800	157830
RS 2204 A	2,200	157840
RS 2354 A	2,350	157850
RS 2604 A	2,600	157860

#### Form C

,	Sigma profile, 400 mm high, 75 mm wide, inclu h additional support above 1,800 mm long.	ding
RS 854 C	850	157430
RS 1054 C	1,050	157440
RS 1254 C	1,250	157450
RS 1804 CZ	1,800	157690
RS 2204 CZ	2,200	157700
RS 2354 CZ	2,350	157710
RS 2604 CZ	2,600	157720

#### Form B

400 mm high, 245 mm wide, including floor anchors. For support profiles Type P 75 and P 90.

Item	for frame depth (mm)	Order no.
RS24 0854 B	850	151510
K324 U834 B	830	191910
RS24 1054 B	1,050	151520
RS24 1254 B	1,250	151530
RS24 1804 B	1,800	151540
RS24 2204 B	2,200	151550
RS24 2354 B	2,350	151560
RS24 2604 B	2,600	151610
Form B		
400 mm high, 2	265 mm wide, including floor anchors.	

For support profiles Type P 100 and P 120. 151400 RS26 0854 B 850 151410 RS26 1054 B 1,050 151420 RS26 1254 B 1.250 RS26 1804 B 1,800 151430 RS26 2204 B 2,200 151440 RS26 2354 B 2,350 151450 RS26 2604 B 2,600 151500



# Safety accessories for pallet racking systems

#### Mesh back panel cladding

The rear sides of free-standing racks must be secured to prevent the loading units from falling out. Observe the applicable safety regulations or ask our technical consultants.

The mesh back panels are made of mesh mats with defined lengths and heights. They are combined depending on the rack height and clear field widths. The mesh spacing is 100 x 50 mm. A GRM mesh segment consists of 2 C-profiles and the necessary mesh mats. Depending on the number of mesh mats, mesh connectors and compensating rods are required to secure the bracket sets (including fixing kit) - please order separately.

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

#### **Ordering note**

The mesh and fittings should not protrude beyond the frame. The top edge of the mesh back panel is identical to the rack height. All of the frames in a rack row must also be the same height. Load securing must also be fitted to prevent the loading units from falling out of the sides and must also be taken into

#### **Number of mesh connectors**

Rack			Clea	r field v	vidth		
height	1,800	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

#### **Ordering example**

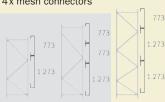
For 3,600 mm high rack you require:

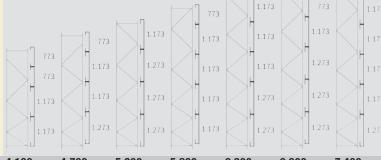
1 723 mm high mesh segment height 723 mm and 2 1,273 mm high mesh segments.

#### For a 3,600 mm high pallet racking and the field width 3,900 mm order:

1x GRM-3907, 2x GRM-3912, 4x bracket set,

4x compensating rods, 4x mesh connectors





Rack height in mm	2,500	3,000	3,600	4,100	4,700	5,200	5,800	6,300	6,900	7,400
Lower dimension in mm	345	45	45	45	45	45	45	45	45	45
The number of required i	mesh segr	ments								
H 773 mm	1	2	1	2	1	_	1	_	2	_
H 1,173 mm	-	-	-	2	2	1	4	3	1	5
H 1,273 mm	1	1	2	_	1	3	_	2	3	1
No. of console sets	3	4	4	5	5	5	6	6	7	7
No. of compensating rods	2	2	4	4	4	4	6	6	6	6

#### Mesh segment height 773 mm

Item	Clear field width	Order no.
	(mm)	
		4
GRM-0907	900	6686319
GRM-1107	1,100	6686320
GRM-1307	1,300	6686321
GRM-1807	1,800	6686328
GRM-2207	2,200	6686329
GRM-2707	2,700	6686330
GRM-2907	2,900	6686331
GRM-3307	3,300	6686332
GRM-3607	3,600	6686333
GRM-3907	3.900	6686334

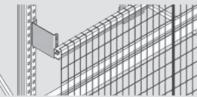
Item	Clear field width
	(mm)

Mesh segment height 1,173 mm

Item	(mm)	Order no.
		1
GRM-0911	900	6686322
GRM-1111	1,100	6686323
GRM-1311	1,300	6686324
GRM-1811	1,800	6686336
GRM-2211	2,200	6686337
GRM-2711	2,700	6686338
GRM-2911	2,900	6686339
GRM-3311	3,300	6686340
GRM-3611	3,600	6686341
GRM-3911	3,900	6686342

#### Mesh segment height 1,273 mm

Item	Clear field width (mm)	Order no.
		1
GRM-0912	900	6686325
GRM-1112	1,100	6686326
GRM-1312	1,300	6686327
GRM-1812	1,800	6686344
GRM-2212	2,200	6686345
GRM-2712	2,700	6686346
GRM-2912	2,900	6686347
GRM-3312	3,300	6686348
GRM-3612	3,600	6686349
GRM-3912	3,900	6686350

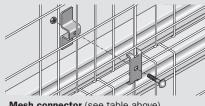


M IIII	et (incl	fixing k	[]4]   it)	נווע	anu

Console set	(incl. fixing kit)	
Item	Length (mm)	Order no.
GRM.K-180-S	180	6686317

Compensating rods (incl. fixing kit)

Compensating rods (incl. fixing kit)		
Item	Order no.	
GRM-ASS	6686298	



						/
IV	lesh conne	ctor (see	table	above)		
It	em				Order	no.
G	DM-GVS				6686	256

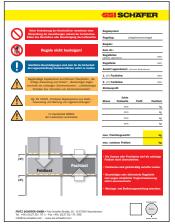
Order no. = in stock



#### Mandatory labeling

The regulations of the trade associations demand labeling of rack facilities with all the necessary load specifications





# Safety accessories for pallet racking systems

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

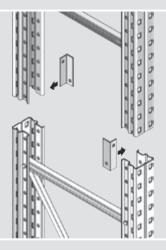
<sup>\*</sup> The technical data is defined via a time sheet. It is offered and invoiced as part of the price of the sign.

#### Frame extension at row end

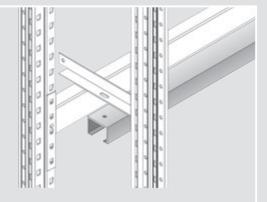
Protects against lower units from falling out of the sides, 500 mm high including fixing kit.

Surface: Dust Gray, RAL 7037 or galvanized.

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



Item	System	Frame profile (mm)	Frame depth (mm)	Surface	Order no.
AN 78	PR 350	70	850	RAL 7037	33160
AN 68	PR 600	75	850	Galvanized	34870
AN 88	PR 350	80	850	RAL 7037	33170
AN 98	PR 600	90	850	Galvanized	34860
AN 18	PR 350	100	850	RAL 7037	33180
AN 71	PR 350	70	1,050	RAL 7037	33190
AN 61	PR 600	75	1,050	Galvanized	34880
AN 81	PR 350	80	1,050	RAL 7037	33200
AN 91	PR 600	90	1,050	Galvanized	34840
AN 11	PR 350	100	1,050	RAL 7037	33210
AN 72	PR 350	70	1,250	RAL 7037	33220
AN 62	PR 600	75	1,250	Galvanized	34890
AN 82	PR 350	80	1,250	RAL 7037	33230
AN 92	PR 600	90	1,250	Galvanized	34850
AN 12	PR 350	100	1,250	RAL 7037	33240

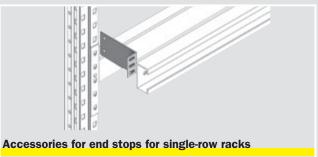


#### End stops

Double-row racks require end stops if the distance between the loading aids or the load unit is less than 100 mm. On single-row racks, end stops prevent the load units from unintentionally falling out. Depending on the requirements, a 40 or 60 mm wide profile can be used.

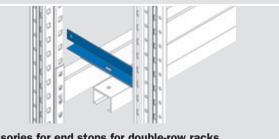
Spacing: 95 mm outer edge of the rack supports – inner edge DS profile; 135 mm outer edge of the rack supports – inner edge DS profile.

Item	Clear field width (mm)	Profile	Order no.
DSC060FW1900	1.900	C 60/40	6689260
DSC060FW2300	2.300	C 60/40	6689264
DSC060FW2700	2.700	C 60/40	6689268
DSC100FW2900	2.900	C 100/60	6689270
DSC100FW3300	3.300	C 100/60	6689274
DSC100FW3600	3.600	C 100/60	6689277
DSC100FW3900	3.900	C 100/60	6689280



Single-row racks require 2 brackets with 95 mm spacing for each end stop.

Item	for frame depth (mm)
KDS 1	1,050



#### Accessories for end stops for double-row racks

For double-face rack rows require 2 spacers as brackets for each end stop.

Further information is available on page D14.

Order no.

158480



The potentials for accelerating logistics processes and, thus, permanently reducing costs are extremely high.

Both manual and computer-controlled warehouses can be optimized with visual warehouse organization procedures and systems.

Rapid and safe storage, retrieval and relocation significantly enhance the employees' productivity. Pickers and forklift drivers are guided to the right location in the shortest possible time.

The solution is a clearly understandable guidance system that can be implemented quickly and easily. At the same time, the investment to install the visual warehouse organization is particularly low.

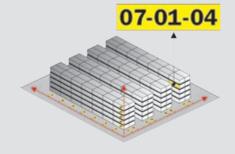
Systematic numbering of all storage spaces and the number key form the basis and the prerequisite for efficient warehouse organization.

Each storage space is the signed a unique and unmistakable code, which consists of at least three coordinates: rack row, longitudinal position and height position.

Additional information can also be printed on the labels such as storage areas, check digits, barcodes and position arrows.

A diverse range of fonts, colors and sizes for signs, labels, label holders and ground markings are available.

Please inquire if you would like a version that is not listed here.



Further versions

on request



5-128-07

012-05-3

06-03-05

from 2,000 units on request

•	ers including sepa quantity: 100 pie	
Quantity scale	: 1 – 1,999 pieces	6
Item	W x H (mm)	Order no
R SK 1230 SG	120 x 30	189900
R SK 1438 SG	140 x 38	

220 x 65

5-128-07

012-05-3

06-03-05

from 2,000 units on request

Storage space labels

R SK 2265 SG

Storage space labels

Self-adhesive polyethylene film, Color: yellow, lettering: black,

Self-adhesive polyethylene film, Color: white, lettering: black, up to 8 characters including separators. Minimum order quantity: 100 pieces.

Quantity scale: 1 – 1,999 pieces Item W x H

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

Order no. = in stock

189902



#### Storage space labels

Self-adhesive polyethylene film, Color: yellow, lettering: black, up to 8 characters including separators, additionally with barcode.

Minimum order quantity: 100 pieces.



quantities, occurren	,ooo p.ooo	
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

5-128-07





from 2,000 units on request



#### Storage space labels 5-128-07 Self-adhesive polyethylene film, Color: white, lettering: black, up to 8 characters including separators, additionally with barcode. Minimum order quantity: 100 pieces. 012-05-3

Quantity scale: 1 – 1,999 pieces			
Item	WxH	Order no.	
	(mm)		
R SK 1230 SWB	192 x 38	189909	
R SK 1438 SWB	224 x 38	189910	
R SK 2265 SWB	380 x 65	189911	



from 2,000 units on request







#### Floor markings

For the identification of pallet and (block) storage areas or driving and walking lanes, self-adhesive, thickness: 0.3 mm, color: yellow.

Item	Forms	PU	Order no.
R BM K	Circle	1	189917
R BM R	Circular blank	50	189918
R BM T	T-piece	10	189919
R BM KR	Cross	1	189920
R BM E	Corner piece	10	189921
	with label		on req.



#### Rack row signs

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

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



(mm)

300 x 300

189915

R RW 30300



#### Label holder

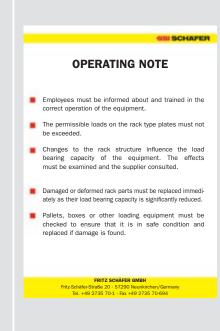
Self-adhesive plastic label holders, total height 33 mm (for label height 30 mm). Without label inserts.

Item	Length (mm)	Order no.
K EH 0880	780	442518
K EH 1080	980	442538
K EH 1280	1,180	442558
K EH 1350	1,250	442565
K EH 1800	1,700	442610
K EH 2200	2,100	442650
K EH 2700	2,600	442700



Pre-perforated labels made of 120 g/m<sup>2</sup> paper, white, 20 labels on one DIN A4 sheet for self printing. Label format: 100 x 30 mm.

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





#### Operating note / Safety note

FEM regulations for storage facilities.

Made of aluminum composite, W 420 x H 600 mm, multi-colored printing, incl. fixing kit.

Item		Order no.	Item		Order no.
TS 7050 BH	Operating note	992305	TS 7050 SH	Safety note	992305

Order no. = in stock



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

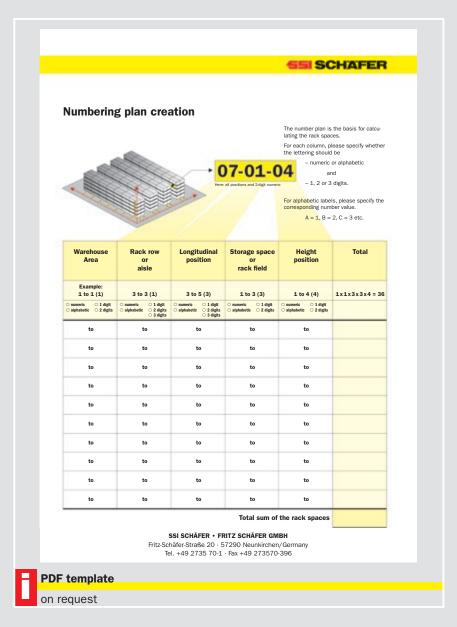
Item		Order no.
R RM	Cleaning agent 0.5 I	189922
R RA	Scraper	189923
R RT	Cleaning cloths 50 pcs.	189924



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

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









# PR 600 front-to-back beam racks

SSI SCHAEFER's front-to-back beam racks are outstanding for single-space storage. They are the ideal solution for this warehousing tasks. They make optimum use of the room height as almost none of the construction elements restrict the height of the goods being stored.

Front-to-back beam racks are especially suitable for order picking from laterally positioned containers and pallets. The

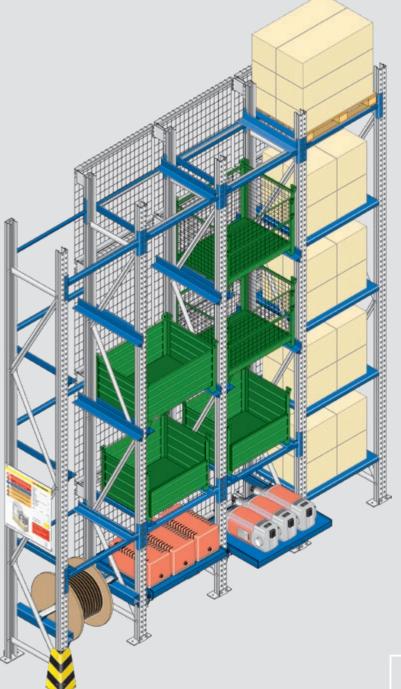
order picking height can be used optimally. The single-row design is also beneficial for high racks, especially when heavy goods are stored in high stacks.

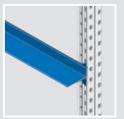


# Staging PR 600 front-to-back beams

#### Advantages of the front-to-back beam rack:

Virtually no restriction of storage height due to construction elements enables you to make optimum use of the room height. Front-to-back beam racks are especially suitable for order picking from laterally positioned containers and pallets. The crosspieces are self-locking and can be adjusted very easily without the





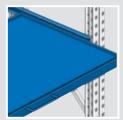
Front-to-back beam



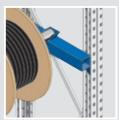
Front-to-back support with horizontal brace



Shelf



Extendable shelf



Cable drum beams



Corner protector



Load sign

# Drive-in and drive-through racking

SSI SCHÄFER's pallet racking systems are practically designed for use as drive-in and drive-through racking. This storage system proves its value especially when storing a small range of different articles in very large quantities. It provides maximum storage capacity in a minimum spatial volume.

The systems are loaded and unloaded using conventional forklifts that drive into the rack channels. Although direct access to all the stored pallets is only

possible to a limited extent, drive-in racking systems are an integral part of modern warehouse logistics, typically in transshipment warehouses.

Drive-in and drive-through pallet racking systems are accessed with front forklifts or reach trucks. The typical applications include the food and non-food industry, in particular a small range of articles stored in large quantities, such as fruit, fruit juices or care products. The design of the

front-to-back supports is an important aspect of the functionality of drive-in and drive-through racking. Preferably, drive-in and drive-through racking should be equipped with floor rails to protect the rack supports and provide forklift drivers with better guidance.

Consider the following system features if you are planning a new warehouse or intend to restructure an existing facility. We help you to plan and develop the most efficient logistics solution.



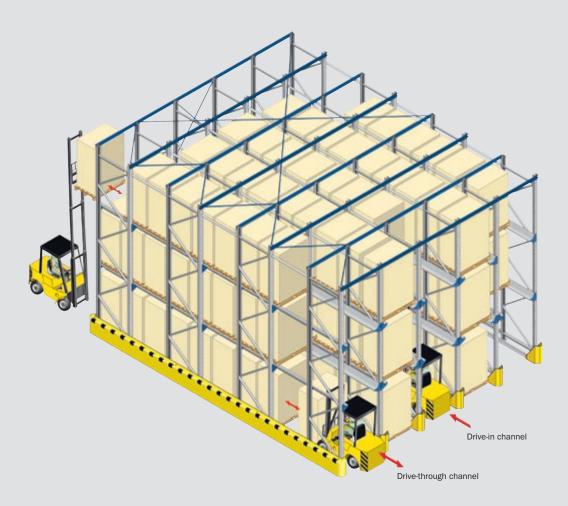
# Staging drive-in and drive-through racking

#### Advantages of the drive-in racking:

Maximum storage capacity with minimum spatial volume is the unique characteristic of drive-in racking systems. The racks are loaded and unloaded from one side. The channels can only be accessed in one direction.

#### Advantages of the drive-through racking:

Free-standing rack units can be accessed from both sides. A forklift can be driven through the racks. The advantage is that loading and unloading can be carried out separately.

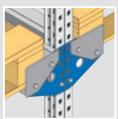




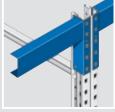
Front-to-back support



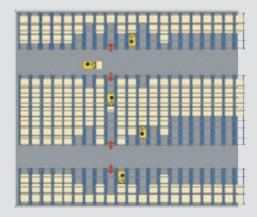
Attachment bracket

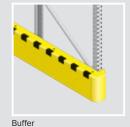


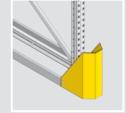
End stop

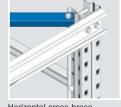


Horizontal brace









Guard and floor rails Horizontal cross brace

# Mobile racking for pallets and long goods

Available storage spaces cannot always be expanded to any desired extent. Space needs to be saved for new production areas. Mobile racking storage is worth considering wherever these requirements exist. Modern management concepts and sound planning enable previously unimagined options.

The mobile racking system is both simple and impressive. Any desired number of rack rows are mounted on traveling units and moved on rails using an electric motor. The access aisle is only opened where it is currently needed.

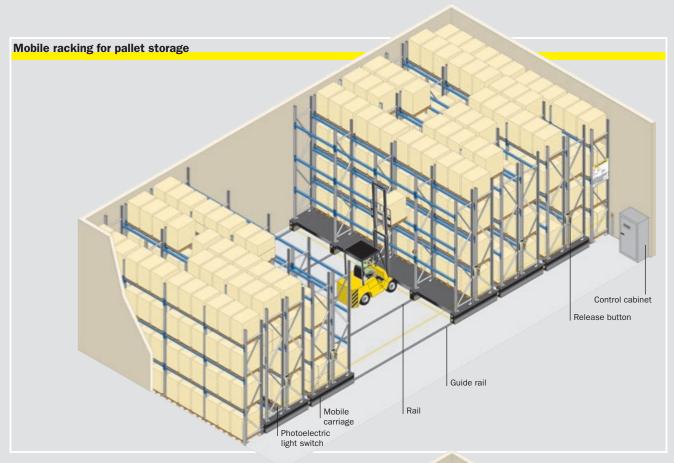
Consider these system advantages if you are planning a new warehouse or intend to restructure an existing facility.

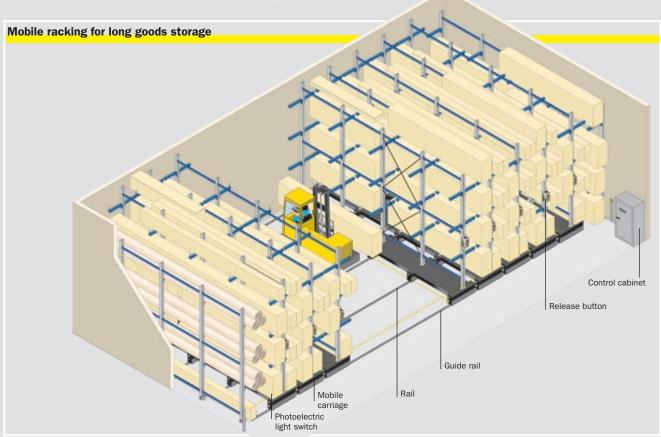
- ▶ 85% increase in capacity with the same surface area.
- ▶ 60% less construction volume if you are planning a new construction.
- ▶ 40% space savings that you can use without having to construct a new building.

We help you to plan and develop the most efficient logistics solution.



# Mobile rack staging





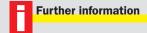
# Pallet live storage racking

Pallet live storage racking systems are used as buffer storage for shipping, in production and also for incoming and outgoing goods. The racks are usually accessed using front forklifts and reach trucks. Manual lifting trolleys can also be used for the lowest level on the removal side. The storage utilizes the first-in-first-out principle (FiFo). Stored goods with an expiry date or product batches are easier to monitor. The design of the gravity roller conveyors can be

adapted to the specific goods using different roll divisions and brake rollers. The other advantages of this storage system are the optimum use of surface area and volume as well as the ability to integrate the system into the automated material flow.

Furthermore, the pallets can also be accessed on multiple stories with additional order picking levels or tunnels.





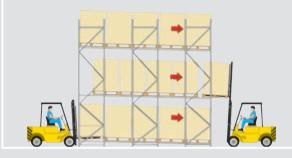
on request



# Staging live storage and pushback racks

#### Pallet live storage

The live storage warehouse consists of gravity roller conveyors installed in a rack as live storage levels. The space it is used highly efficiently as multiple channels are positioned next to each other and the room height is optimally utilized. The storage and retrieval sides are separated. Roller conveyors provide both storage and transport functions.

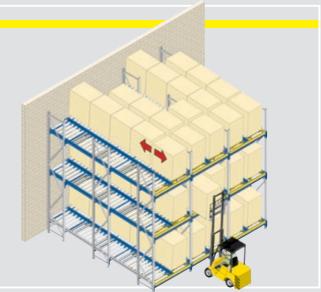




#### Pallet pushback racking

Pallets pushback racking is space-saving buffer storage with only one access aisle. This storage technology pushes the stored goods up the incline of the roller conveyor and into a channel with the help of a feeding device. During removal, the following pallets are braked by the removal process with the forklift. Eliminating brake rollers and separators creates a cost-effective solution. All of the articles are always accessible on the removal side of the rack. Pallet pushback racking utilizes the LiFo principle (last-in-first-out).





#### Pallet live storage rack storage with order picking tunnel

Pallet live storage racking systems are becoming an increasingly important part of warehouse logistics due to the consistent combination of buffer storage and order picking. Pallet live storage racking with order picking tunnels utilizes the FIFO principle (first-in-first-out). The resupply and order picking operations are separated and large article volumes are possible. These systems provide optimum solutions for a beverage trade or electrical equipment manufacturers.



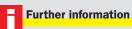
# Narrow aisle high rise racking system

High rise warehouse solutions with narrow-aisle designs enable the highest storage capacity even with confined areas and restricted storage space.

SSI SCHAEFER systems have proven themselves in numerous applications. We apply our worldwide expertise and many years of experience gained through collaboration with manufacturers of floors, storage and retrieval devices, aisle protection and fire protection equipment when implementing a storage solution for our customers.

SSI SCHAEFER sees itself as a professional service provider.





on request

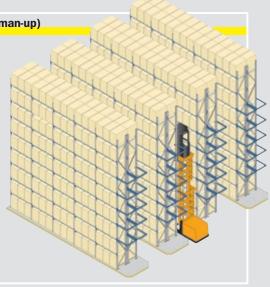


# High rise racking staging

#### Narrow aisle system with order picking trucks (man-up)

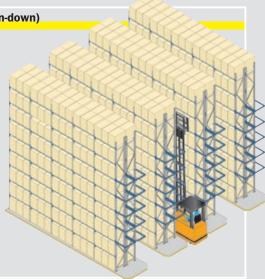
This is by far the most frequently used storage type. The advantages are:

- Operator constantly at removal height, therefore no positioning aid is required.
- Order picking from the pallet is possible.



#### Narrow aisle system with high-bay stackers (man-down)

This type storage is used when entire loading aids need to be stored and retrieved. In contrast to man-up devices, higher racks and smaller tolerances for the floor and rack need to be observed and both horizontal and vertical positioning aids are required.



# Narrow aisle system with order picking trucks (man-up) and upper guide rail

This additional upper guide rail with integrated power rail allows large rack heights (up to 19 m) and rack lengths (> 100 m) together with high traveling speeds. Compliance with very small floor and rack tolerances is an important prerequisite to ensure a perfect functioning.

