

# PALLET RACKING SYSTEMS

**2020**  
**2021**

Extract from general catalog

**ssi-schaefer.com**

**Chapter D**



**SSI SCHÄFER**

# Pallet racking – a modular system with limitless versatility



SSI SCHAEFER's pallet racking systems are so handy as the Euro and Industrial pallets themselves. It doesn't matter what kind of load carrier – pallets, mesh boxes or any other – longitudinal beam racks for single- or multiple place storage ensure high mobility of ware and quick goods turnover. Multi-place longitudinal beam rack systems are used in diverse branches from wholesale or spare parts warehouses in the electronics, mechanics and automotive industries.

Single-place rack systems are ideal for storing goods with the same base carrier and varying heights. Drive-in rack systems have proven their value especially when storing a very large quantity of a limited range of articles.

Using adequate accessories, pallets and containers, even with varying sizes, this kind of rack system enables optimal storage.



**Changed frame depth in 2021**

for PR 350 and PR 600 from 1,050 mm to **1,100 mm**







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Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix





# Overview of pallet racking systems

|                        | Longitudinal beam rackings PR 350   | Longitudinal beam rackings PR 600  |
|------------------------|---|--|
| Areas of use           | Pallet storage of medium and high-volume goods with medium to high loads, e.g. in production areas and for on-line shelving                                     | Pallet storage of medium and high-volume goods with medium to high loads, e.g. for logistics services or in distribution warehouses                      |
| Advantages             | <ul style="list-style-type: none"> <li>▶ Solid and robust construction</li> <li>▶ Easy assembly with only a few components</li> </ul>                           | <ul style="list-style-type: none"> <li>▶ Light and economical</li> <li>▶ Sturdy due to special design</li> <li>▶ Highest dimensional accuracy</li> </ul> |
| Design                 | ▶ Welded frame construction with longitudinal beams, 3 types of upright profiles each with 3 frame depths, 10 frame heights, 2 beam profile types, 7 bay widths | ▶ Bolted frame construction with longitudinal beams, 4 stand profiles each with 3 frame depths, 10 frame heights, 2 beam types, 7 bay width              |
| Beam connection        | ▶ Bolt-free system  | ▶ Bolt-free system   |
| System hole pattern    | ▶ 50 : 50 mm  | ▶ 50 : 50 mm   |
| Upright profile widths | ▶ 70, 80, 100 mm  | ▶ 75, 90, 100, 120 mm  |
| Frame load capacity    | ▶ Up to 12,500 kg   | ▶ Up to 30,000 kg  |
| Beam load capacity     | ▶ Up to 4,500 kg per pair   | ▶ Up to 4,500 kg per pair  |
| Frame surface          | ▶ Painted RAL 7037, Dust Gray   | ▶ Galvanized   |
| Beam surface           | ▶ Painted RAL 5010, Gentian Blue  | ▶ Painted RAL 5010, Gentian Blue   |



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from pages

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**Safety equipment for racks according to German regulation DG-UV 108-007**

**1.1 Row end frame height increase**  
by at least 500 mm above the top rack height

**1.2 Passage overhead protection**  
These must be covered by chipboard, grating or similar.  
Clear passage height must be at least minimum 2,000 mm

**1.3 Safety distance between load carriers**  
Safety distance between load carriers lower than 100 mm?  
Back stops will be necessary inside double-sided racks

**1.4 End Frames**  
Corner protectors must be installed at all free-standing end frames.  
This also applies to passages

**1.5 Single-sided rack rows**  
If one side of a free-standing single-row rack is not used for loading or unloading, this side must be secured, preventing ware units from falling out. For example using nets, solid or mesh back panels

**1.6 Transposed storage**  
If the skids or feet of load carriers are parallel to beams, or not directly supported by beams, they must be secured by front-to-back supports, chipboards, mesh grates or similar devices

**1.7 Load signs**  
These must be provided for all rack installations

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**Technical regulations for the pallet racking**

**2.1 Rack rows**  
A rack row must consist of at least 3 rack bays

**2.2 Beam levels**  
There must be at least 2 beam levels per rack bay

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

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





## PR 350 pallet racking

Longitudinal beam racks can be used universally for all tasks in the warehouse. Using adequate accessories, pallets and containers, even with varying sizes, this kind of rack system enables optimal storage.

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

The compatibility to other systems and the high range of accessories allow the continuous expansion of existing equipment and rack solutions.







# Frames and longitudinal beams PR 350

## ► High load capacity

Frame load capacity of up to 12,500 kg (for min. 2 beam pairs INP 100 per rack bay and 5 rack bays per rack row), beam load capacity up to 4,500 kg per pair

## ► Sturdy due to special design

## ► High-quality materials

## ► System hole pattern

with adjustment spacing 50 : 50 mm

## ► Support widths

70, 80, 100 mm

## ► Easy assembly

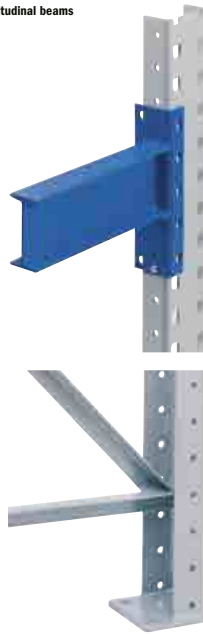
with only a few components

## ► Welded frame construction

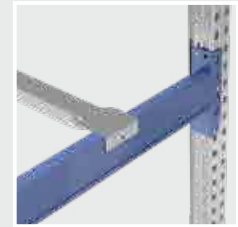
## ► Solid base

## ► Robust design

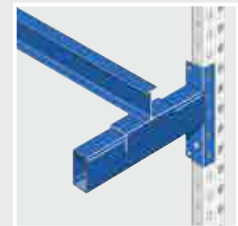
with a material thicknesses up to 4 mm



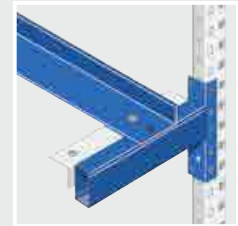
Front-to-back supports  
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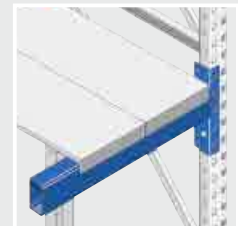
Front-to-back supports



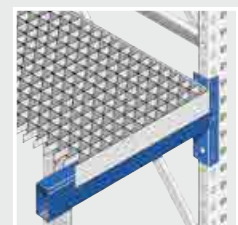
Fork spacer



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



Steel panels, attached



Mesh panels, attached



Chipboard with edge protection, attached

Mesh back panels

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Frame

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Fork spacers

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Front-to-back support from the angled profile

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Steel panels on INP beam profile

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Load sign

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Chipboards attached

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Mesh panels on beam profile INP

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Corner protector

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Longitudinal beams

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Corner protector



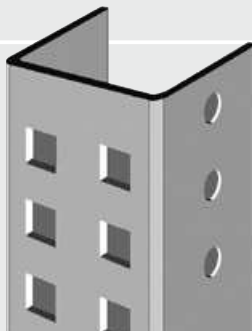
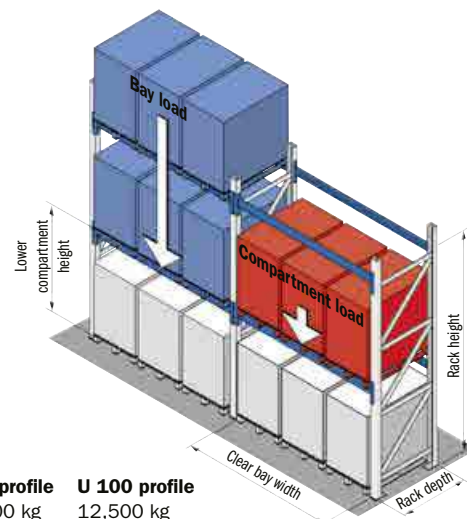
Load sign

# PR 350 frame

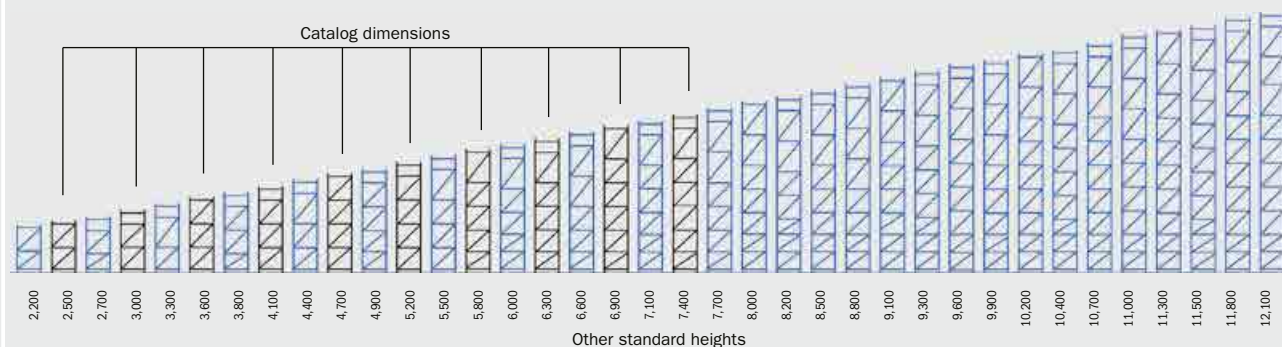
## ► Frame load capacity

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

If you have any questions please contact our technical consultants.



| Compartment height | Frame load capacity |              |               |
|--------------------|---------------------|--------------|---------------|
|                    | U 70 profile        | U 80 profile | U 100 profile |
| 1,000 mm           | 5,500 kg            | 10,600 kg    | 12,500 kg     |
| 1,250 mm           | 5,200 kg            | 10,000 kg    | 12,000 kg     |
| 1,500 mm           | 4,600 kg            | 9,600 kg     | 11,800 kg     |
| 1,750 mm           | 4,000 kg            | 9,300 kg     | 11,600 kg     |
| 2,000 mm           | 3,650 kg            | 8,000 kg     | 10,000 kg     |
| 2,250 mm           | 3,300 kg            | 7,200 kg     | 9,000 kg      |
| 2,500 mm           | 2,900 kg            | 6,000 kg     | 7,500 kg      |



| Item                 | Frame height (mm) | Frame depth (mm) | Order no. | Item     | Frame height (mm) | Frame depth (mm) | Order no. | Item     | Frame height (mm) | Frame depth (mm) | Order no. |
|----------------------|-------------------|------------------|-----------|----------|-------------------|------------------|-----------|----------|-------------------|------------------|-----------|
| <b>U 70 profile</b>  |                   |                  |           |          |                   |                  |           |          |                   |                  |           |
| RN 70258             | 2,500             | 850              | 126030    | RN 70251 | 2,500             | 1,050            | 126390    | RN 70252 | 2,500             | 1,250            | 126750    |
| RN 70308             | 3,000             | 850              | 126090    | RN 70301 | 3,000             | 1,050            | 126450    | RN 70302 | 3,000             | 1,250            | 126810    |
| RN 70368             | 3,600             | 850              | 126150    | RN 70361 | 3,600             | 1,050            | 126510    | RN 70362 | 3,600             | 1,250            | 126870    |
| RN 70418             | 4,100             | 850              | 126210    | RN 70411 | 4,100             | 1,050            | 126570    | RN 70412 | 4,100             | 1,250            | 126930    |
| RN 70478             | 4,700             | 850              | 126270    | RN 70471 | 4,700             | 1,050            | 126630    | RN 70472 | 4,700             | 1,250            | 126990    |
| RN 70528             | 5,200             | 850              | 126330    | RN 70521 | 5,200             | 1,050            | 126690    | RN 70522 | 5,200             | 1,250            | 127050    |
| <b>U 80 profile</b>  |                   |                  |           |          |                   |                  |           |          |                   |                  |           |
| RN 80258             | 2,500             | 850              | 126040    | RN 80251 | 2,500             | 1,050            | 126400    | RN 80252 | 2,500             | 1,250            | 126760    |
| RN 80308             | 3,000             | 850              | 126100    | RN 80301 | 3,000             | 1,050            | 126460    | RN 80302 | 3,000             | 1,250            | 126820    |
| RN 80368             | 3,600             | 850              | 126160    | RN 80361 | 3,600             | 1,050            | 126520    | RN 80362 | 3,600             | 1,250            | 126880    |
| RN 80418             | 4,100             | 850              | 126220    | RN 80411 | 4,100             | 1,050            | 126580    | RN 80412 | 4,100             | 1,250            | 126940    |
| RN 80478             | 4,700             | 850              | 126280    | RN 80471 | 4,700             | 1,050            | 126640    | RN 80472 | 4,700             | 1,250            | 127000    |
| RN 80528             | 5,200             | 850              | 126340    | RN 80521 | 5,200             | 1,050            | 126700    | RN 80522 | 5,200             | 1,250            | 127060    |
| RN 80588             | 5,800             | 850              | 127120    | RN 80581 | 5,800             | 1,050            | 127480    | RN 80582 | 5,800             | 1,250            | 127840    |
| RN 80638             | 6,300             | 850              | 127180    | RN 80631 | 6,300             | 1,050            | 127540    | RN 80632 | 6,300             | 1,250            | 127900    |
| RN 80698             | 6,900             | 850              | 127240    | RN 80691 | 6,900             | 1,050            | 127600    | RN 80692 | 6,900             | 1,250            | 127960    |
| RN 80748             | 7,400             | 850              | 127300    | RN 80741 | 7,400             | 1,050            | 127660    | RN 80742 | 7,400             | 1,250            | 128020    |
| <b>U 100 profile</b> |                   |                  |           |          |                   |                  |           |          |                   |                  |           |
| RN 10368             | 3,600             | 850              | 126170    | RN 10361 | 3,600             | 1,050            | 126530    | RN 10362 | 3,600             | 1,250            | 126890    |
| RN 10418             | 4,100             | 850              | 126230    | RN 10411 | 4,100             | 1,050            | 126590    | RN 10412 | 4,100             | 1,250            | 126950    |
| RN 10478             | 4,700             | 850              | 126290    | RN 10471 | 4,700             | 1,050            | 126650    | RN 10472 | 4,700             | 1,250            | 127010    |
| RN 10528             | 5,200             | 850              | 126350    | RN 10521 | 5,200             | 1,050            | 126710    | RN 10522 | 5,200             | 1,250            | 127070    |
| RN 10588             | 5,800             | 850              | 127130    | RN 10581 | 5,800             | 1,050            | 127490    | RN 10582 | 5,800             | 1,250            | 127850    |
| RN 10638             | 6,300             | 850              | 127190    | RN 10631 | 6,300             | 1,050            | 127550    | RN 10632 | 6,300             | 1,250            | 127910    |
| RN 10698             | 6,900             | 850              | 127250    | RN 10691 | 6,900             | 1,050            | 127610    | RN 10692 | 6,900             | 1,250            | 127970    |
| RN 10748             | 7,400             | 850              | 127310    | RN 10741 | 7,400             | 1,050            | 127670    | RN 10742 | 7,400             | 1,250            | 128030    |

Order no. = on stock



### ► Support profiles

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

System hole pattern 50 : 50 mm steps.

Solid floor plates safely transfer the loads to the floor.

### ► Longitudinal beams

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

Adjustable using the system hole pattern 50 : 50 mm.

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

The load specifications apply for uniformly distributed loads.

The order numbers apply for one beam.

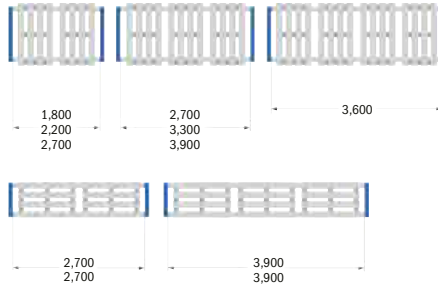
### ► Longitudinal beam rack system dimensions

#### Storage in depth direction

| Pallet dimensions | Insertion depth | Rack depth |
|-------------------|-----------------|------------|
| 800 x 1,200 mm    | 1,200 mm        | 1,050 mm   |
| 1,000 x 1,200 mm  | 1,200 mm        | 1,050 mm   |
| 1,200 x 1,200 mm  | 1,200 mm        | 1,050 mm   |

#### Storage in transverse direction

| Pallet dimensions | Insertion depth | Rack depth |
|-------------------|-----------------|------------|
| 800 x 1,200 mm    | 800 mm          | 850 mm     |
| 1,000 x 1,200 mm  | 1,000 mm        | 1,050 mm   |



# Longitudinal beams

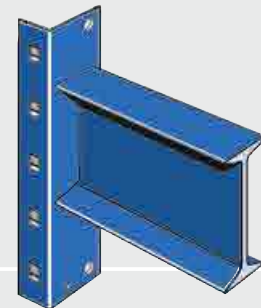


## PR 350 accessories

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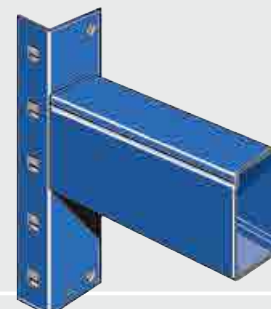
### Longitudinal beams with INP profile

| Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. |
|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|
| <b>Length 1,800 mm</b> |                    |                 |           | <b>Length 2,200 mm</b> |                    |                 |           | <b>Length 2,700 mm</b> |                    |                 |           |
| TRN1-180-08-I          | 3,000              | INP 80          | 323560    | TRN1-220-08-I          | 2,500              | INP 80          | 323600    | TRN1-270-08-I          | 2,100              | INP 80          | 323650    |
| TRN1-180-10-I          | 4,500              | INP 100         | 323720    | TRN1-220-10-I          | 4,200              | INP 100         | 323760    | TRN1-270-10-I          | 3,500              | INP 100         | 323810    |
| <b>Length 2,900 mm</b> |                    |                 |           | <b>Length 3,300 mm</b> |                    |                 |           | <b>Length 3,600 mm</b> |                    |                 |           |
| TRN1-290-08-I          | 1,900              | INP 80          | 323670    | TRN1-330-08-I          | 1,400              | INP 80          | 323710    | TRN1-360-10-I          | 2,300              | INP 100         | 323900    |
| TRN1-290-10-I          | 3,300              | INP 100         | 323830    | TRN1-330-10-I          | 2,700              | INP 100         | 323870    | TRN1-360-12-I          | 3,900              | INP 120         | 324120    |
| TRN1-290-12-I          | 4,500              | INP 120         | 324050    | TRN1-330-12-I          | 4,400              | INP 120         | 324090    |                        |                    |                 |           |
| <b>Length 3,900 mm</b> |                    |                 |           | <b>Length 3,900 mm</b> |                    |                 |           |                        |                    |                 |           |
|                        |                    |                 |           | TRN1-390-10-I          | 2,000              | INP 100         | 323930    |                        |                    |                 |           |
|                        |                    |                 |           | TRN1-390-12-I          | 3,400              | INP 120         | 324150    |                        |                    |                 |           |



### Longitudinal beams with CE profile

| Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. |
|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|
| <b>Length 1,800 mm</b> |                    |                 |           | <b>Length 2,200 mm</b> |                    |                 |           | <b>Length 2,700 mm</b> |                    |                 |           |
| TRN1-180-085-30 CE     | 3,200              | CE 80           | 324220    | TRN1-220-085-30 CE     | 2,500              | CE 80           | 324230    | TRN1-270-085-30 CE     | 1,700              | CE 80           | 324240    |
| TRN1-180-105-30 CE     | 4,200              | CE 100          | on req.   | TRN1-220-105-30 CE     | 3,500              | CE 100          | on req. * | TRN1-270-105-30 CE     | 2,600              | CE 100          | on req. * |
| TRN1-180-115-30 CE     | 4,500              | CE 110          | 324300    | TRN1-220-115-30 CE     | 3,900              | CE 110          | 324310    | TRN1-270-115-30 CE     | 3,000              | CE 110          | 324320    |
| <b>Length 2,900 mm</b> |                    |                 |           | <b>Length 3,300 mm</b> |                    |                 |           | <b>Length 3,600 mm</b> |                    |                 |           |
| TRN1-290-085-30 CE     | 1,500              | CE 80           | on req. * | TRN1-330-115-30 CE     | 2,200              | CE 110          | 324340    | TRN1-360-115-30 CE     | 1,900              | CE 110          | 324350    |
| TRN1-290-105-30 CE     | 2,300              | CE 100          | on req. * | TRN1-330-125-30 CE     | 2,600              | CE 120          | on req. * | TRN1-360-125-30 CE     | 2,300              | CE 120          | on req. * |
| TRN1-290-115-30 CE     | 2,700              | CE 110          | 324330    | TRN1-330-145-30 CE     | 3,100              | CE 140          | 312910    | TRN1-360-145-30 CE     | 2,700              | CE 140          | 312940    |
| TRN1-290-125-30 CE     | 3,200              | CE 120          | on req. * |                        |                    |                 |           |                        |                    |                 |           |
| TRN1-290-145-30 CE     | 3,800              | CE 140          | 312870    |                        |                    |                 |           |                        |                    |                 |           |
| <b>Length 3,900 mm</b> |                    |                 |           | <b>Length 3,900 mm</b> |                    |                 |           |                        |                    |                 |           |
|                        |                    |                 |           | TRN1-390-145-30 CE     | 2,300              | CE 140          | 312970    |                        |                    |                 |           |



\* Minimum order quantity on request.

## PR 600 – the modern pallet racking system

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

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

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

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

### ► Tested quality

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





GALVANIZED

Frame



GENTIAN BLUE

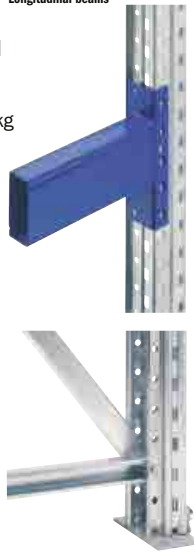
Longitudinal beams



RAL 5010

# Frames and longitudinal beams PR 600

- **High load capacity**  
Frame load capacity of up to 30,000 kg (for min. 2 beam pairs INP 100 per rack bay and 5 rack bays per rack row), beam load capacity up to 4,500 kg per pair
- **Light and economical**
- **Sturdy due to special design**
- **High-quality materials**
- **Precise dimensional accuracy**
- **System hole pattern**  
with adjustment spacing 50 : 50 mm
- **Support widths**  
75, 90, 100, 120 mm
- **Easy assembly**  
with only a few components
- **Bolted frame construction**

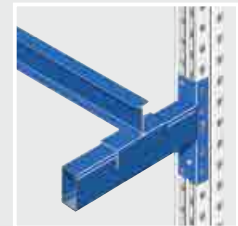


Front-to-back supports

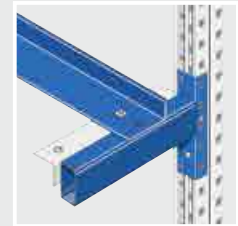
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Front-to-back supports



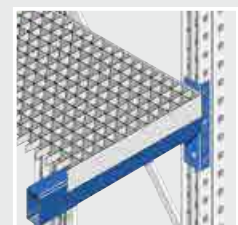
Fork spacer



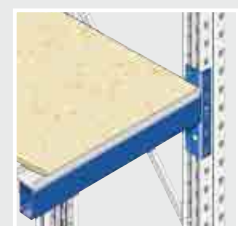
Front-to-back supports made of angled profile with locking bracket



Steel panels, attached



Mesh panels, attached



Chipboard with edge protection, attached

Mesh back panels

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Frame

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Front-to-back support from the angled profile

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End stops

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Fork spacers

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Load sign

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Steel panels on INP beam profile

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Chipboards attached

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Mesh panels on beam profile INP

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Corner protector

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Longitudinal beams

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Corner protector



Load sign

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

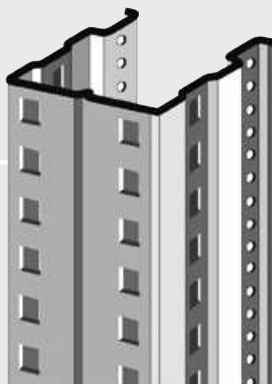
On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix

# PR 600 frame

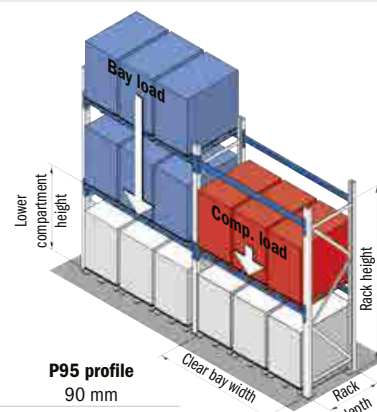


## ► Frame load capacity

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

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

If you have any questions please contact our technical consultants.



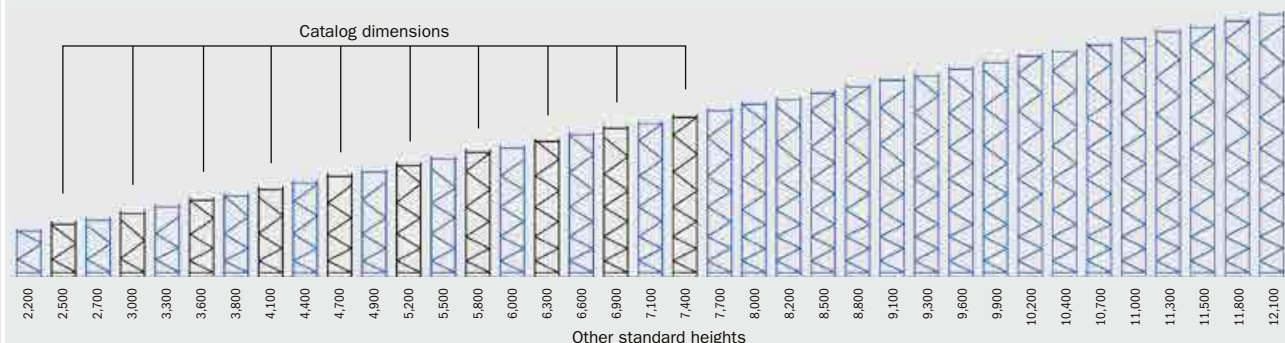
| Support width | P73 profile<br>75 mm |          | P93 profile<br>90 mm |          | P95 profile<br>90 mm |           |
|---------------|----------------------|----------|----------------------|----------|----------------------|-----------|
|               | Bay width            |          | Bay width            |          | Bay width            |           |
|               | 2,700 mm             | 3,600 mm | 2,700 mm             | 3,600 mm | 2,700 mm             | 3,600 mm  |
| Comp. height  |                      |          |                      |          |                      |           |
| 750 mm        | 9,050 kg             | 7,850 kg | 10,400 kg            | 9,450 kg | 16,300 kg            | 16,750 kg |
| 1,000 mm      | 9,050 kg             | 7,850 kg | 9,850 kg             | 9,150 kg | 13,350 kg            | 13,400 kg |
| 1,250 mm      | 7,200 kg             | 6,900 kg | 9,250 kg             | 8,500 kg | 12,700 kg            | 11,700 kg |
| 1,500 mm      | 7,100 kg             | 6,800 kg | 9,250 kg             | 8,500 kg | 12,600 kg            | 11,350 kg |
| 1,750 mm      | 6,850 kg             | 6,700 kg | 8,900 kg             | 8,300 kg | 10,700 kg            | 10,400 kg |
| 2,000 mm      | 6,850 kg             | 6,700 kg | 8,750 kg             | 8,150 kg | 10,700 kg            | 10,400 kg |
| 2,250 mm      | 6,550 kg             | 6,450 kg | 8,750 kg             | 8,100 kg | 10,050 kg            | 9,950 kg  |
| 2,500 mm      | 5,700 kg             | 5,700 kg | 7,450 kg             | 7,750 kg | 10,050 kg            | 9,750 kg  |

## Other frame profiles

on request

## PR 600 accessories

from page D12



### P 73 profile

| Item                      | Frame height (mm) | Order no. | Item                        | Frame height (mm) | Order no. | Item                        | Frame height (mm) | Order no. |
|---------------------------|-------------------|-----------|-----------------------------|-------------------|-----------|-----------------------------|-------------------|-----------|
| <b>Frame depth 850 mm</b> |                   |           | <b>Frame depth 1,050 mm</b> |                   |           | <b>Frame depth 1,250 mm</b> |                   |           |
| RV1-773-0250-085          | 2,500             | 307280    | RV1-773-0250-105            | 2,500             | 307520    | RV1-773-0250-125            | 2,500             | 307760    |
| RV1-773-0300-085          | 3,000             | 307290    | RV1-773-0300-105            | 3,000             | 307530    | RV1-773-0300-125            | 3,000             | 307770    |
| RV1-773-0360-085          | 3,600             | 307300    | RV1-773-0360-105            | 3,600             | 307540    | RV1-773-0360-125            | 3,600             | 307780    |
| RV1-773-0410-085          | 4,100             | 307310    | RV1-773-0410-105            | 4,100             | 307550    | RV1-773-0410-125            | 4,100             | 307790    |
| RV1-773-0470-085          | 4,700             | 307320    | RV1-773-0470-105            | 4,700             | 307560    | RV1-773-0470-125            | 4,700             | 307800    |
| RV1-773-0520-085          | 5,200             | 307330    | RV1-773-0520-105            | 5,200             | 307570    | RV1-773-0520-125            | 5,200             | 307810    |

### P 93 profile

|                  |       |        |                  |       |        |                  |       |        |
|------------------|-------|--------|------------------|-------|--------|------------------|-------|--------|
| RV1-973-0250-085 | 2,500 | 307340 | RV1-973-0250-105 | 2,500 | 307580 | RV1-973-0250-125 | 2,500 | 307820 |
| RV1-973-0300-085 | 3,000 | 307350 | RV1-973-0300-105 | 3,000 | 307590 | RV1-973-0300-125 | 3,000 | 307830 |
| RV1-973-0360-085 | 3,600 | 307360 | RV1-973-0360-105 | 3,600 | 307600 | RV1-973-0360-125 | 3,600 | 307840 |
| RV1-973-0410-085 | 4,100 | 307370 | RV1-973-0410-105 | 4,100 | 307610 | RV1-973-0410-125 | 4,100 | 307850 |
| RV1-973-0470-085 | 4,700 | 307380 | RV1-973-0470-105 | 4,700 | 307620 | RV1-973-0470-125 | 4,700 | 307860 |
| RV1-973-0520-085 | 5,200 | 307390 | RV1-973-0520-105 | 5,200 | 307630 | RV1-973-0520-125 | 5,200 | 307870 |
| RV1-973-0580-085 | 5,800 | 307400 | RV1-973-0580-105 | 5,800 | 307640 | RV1-973-0580-125 | 5,800 | 307880 |
| RV1-973-0630-085 | 6,300 | 307410 | RV1-973-0630-105 | 6,300 | 307650 | RV1-973-0630-125 | 6,300 | 307890 |
| RV1-973-0690-085 | 6,900 | 307420 | RV1-973-0690-105 | 6,900 | 307660 | RV1-973-0690-125 | 6,900 | 307900 |
| RV1-973-0740-085 | 7,400 | 307430 | RV1-973-0740-105 | 7,400 | 307670 | RV1-973-0740-125 | 7,400 | 307910 |

### P 95 profile

|                  |       |        |                  |       |        |                  |       |        |
|------------------|-------|--------|------------------|-------|--------|------------------|-------|--------|
| RV1-975-0360-085 | 3,600 | 307440 | RV1-975-0360-105 | 3,600 | 307680 | RV1-975-0360-125 | 3,600 | 307920 |
| RV1-975-0410-085 | 4,100 | 307450 | RV1-975-0410-105 | 4,100 | 307690 | RV1-975-0410-125 | 4,100 | 307930 |
| RV1-975-0470-085 | 4,700 | 307460 | RV1-975-0470-105 | 4,700 | 307700 | RV1-975-0470-125 | 4,700 | 307940 |
| RV1-975-0520-085 | 5,200 | 307470 | RV1-975-0520-105 | 5,200 | 307710 | RV1-975-0520-125 | 5,200 | 307950 |
| RV1-975-0580-085 | 5,800 | 307480 | RV1-975-0580-105 | 5,800 | 307720 | RV1-975-0580-125 | 5,800 | 307960 |
| RV1-975-0630-085 | 6,300 | 307490 | RV1-975-0630-105 | 6,300 | 307730 | RV1-975-0630-125 | 6,300 | 307970 |
| RV1-975-0690-085 | 6,900 | 307500 | RV1-975-0690-105 | 6,900 | 307740 | RV1-975-0690-125 | 6,900 | 307980 |
| RV1-975-0740-085 | 7,400 | 307510 | RV1-975-0740-105 | 7,400 | 307750 | RV1-975-0740-125 | 7,400 | 307990 |

Order no. = on stock





# Longitudinal beams

## Support profiles

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

System hole pattern 50 : 50 mm steps.

Solid floor plates safely transfer the loads to the floor.

## Longitudinal beams

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

Adjustable using the system hole pattern 50:50 mm.

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

The load specifications apply for uniformly distributed loads.

The order numbers apply for one beam.

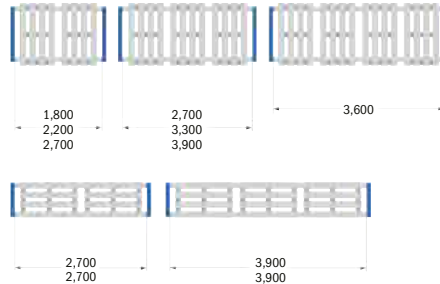
## Longitudinal beam rack system dimensions

### Storage in depth direction

| Pallet dimensions | Insertion depth | Rack depth |
|-------------------|-----------------|------------|
| 800 x 1,200 mm    | 1,200 mm        | 1,050 mm   |
| 1,000 x 1,200 mm  | 1,200 mm        | 1,050 mm   |
| 1,200 x 1,200 mm  | 1,200 mm        | 1,050 mm   |

### Storage in transverse direction

| Pallet dimensions | Insertion depth | Rack depth |
|-------------------|-----------------|------------|
| 800 x 1,200 mm    | 800 mm          | 850 mm     |
| 1,000 x 1,200 mm  | 1,000 mm        | 1,050 mm   |

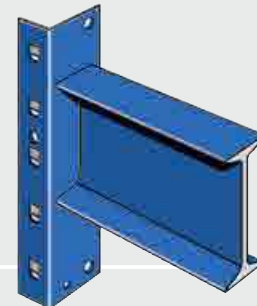


Compatible with WR 600 longspan racking systems

Chapter C, from page C1

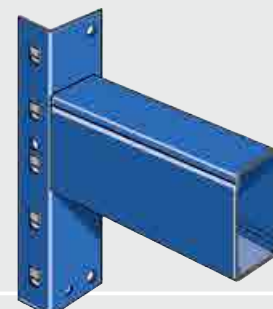
## Longitudinal beams with INP profile

| Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. |
|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|
| <b>Length 1,800 mm</b> |                    |                 |           | <b>Length 2,200 mm</b> |                    |                 |           | <b>Length 2,700 mm</b> |                    |                 |           |
| TRV1-180-08-I          | 3,000              | INP 80          | 321500    | TRV1-220-08-I          | 2,500              | INP 80          | 321540    | TRV1-270-08-I          | 2,100              | INP 80          | 321590    |
| TRV1-180-10-I          | 4,500              | INP 100         | 321660    | TRV1-220-10-I          | 4,200              | INP 100         | 321700    | TRV1-270-10-I          | 3,500              | INP 100         | 321750    |
| <b>Length 2,900 mm</b> |                    |                 |           | <b>Length 3,300 mm</b> |                    |                 |           | <b>Length 3,900 mm</b> |                    |                 |           |
| TRV1-290-08-I          | 1,900              | INP 80          | 321610    | TRV1-330-08-I          | 1,400              | INP 80          | 321650    | TRV1-390-10-I          | 2,000              | INP 100         | 321870    |
| TRV1-290-10-I          | 3,300              | INP 100         | 321770    | TRV1-330-10-I          | 2,700              | INP 100         | 321810    | TRV1-390-12-I          | 3,400              | INP 120         | 322090    |
| TRV1-290-12-I          | 4,500              | INP 120         | 321990    | TRV1-330-12-I          | 4,400              | INP 120         | 322030    |                        |                    |                 |           |
| <b>Length 3,600 mm</b> |                    |                 |           |                        |                    |                 |           |                        |                    |                 |           |
| TRV1-360-10-I          | 2,300              | INP 100         | 321840    |                        |                    |                 |           |                        |                    |                 |           |
| TRV1-360-12-I          | 3,900              | INP 120         | 322060    |                        |                    |                 |           |                        |                    |                 |           |



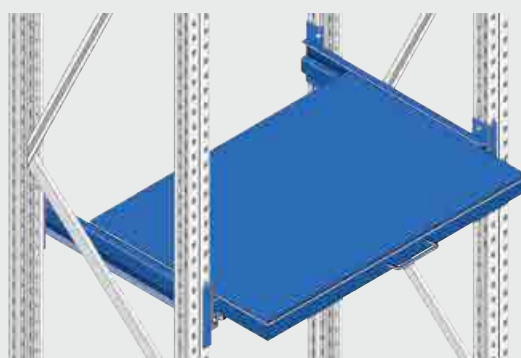
## Longitudinal beams with CE profile

| Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. | Item                   | Load/<br>pair (kg) | Profile<br>type | Order no. |
|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|------------------------|--------------------|-----------------|-----------|
| <b>Length 1,800 mm</b> |                    |                 |           | <b>Length 2,200 mm</b> |                    |                 |           | <b>Length 2,700 mm</b> |                    |                 |           |
| TRV1-180-085-30 CE     | 3,200              | CE 80           | 322160    | TRV1-220-085-30 CE     | 2,500              | CE 80           | 322200    | TRV1-270-085-30 CE     | 1,700              | CE 80           | 322250    |
| TRV1-180-105-30 CE     | 4,200              | CE 100          | on req.*  | TRV1-220-105-30 CE     | 3,500              | CE 100          | on req.*  | TRV1-270-105-30 CE     | 2,600              | CE 100          | on req.*  |
| TRV1-180-115-30 CE     | 4,500              | CE 110          | 322720    | TRV1-220-115-30 CE     | 3,900              | CE 110          | 322760    | TRV1-270-115-30 CE     | 3,000              | CE 110          | 322810    |
| <b>Length 2,900 mm</b> |                    |                 |           | <b>Length 3,300 mm</b> |                    |                 |           | <b>Length 3,900 mm</b> |                    |                 |           |
| TRV1-290-085-30 CE     | 1,500              | CE 80           | on req.*  | TRV1-330-115-30 CE     | 2,200              | CE 110          | 322870    | TRV1-390-145-30 CE     | 2,300              | CE 140          | 323490    |
| TRV1-290-105-30 CE     | 2,300              | CE 100          | on req.*  | TRV1-330-125-30 CE     | 2,600              | CE 120          | on req.*  |                        |                    |                 |           |
| TRV1-290-115-30 CE     | 2,700              | CE 110          | 322830    | TRV1-330-145-30 CE     | 3,100              | CE 140          | 323430    |                        |                    |                 |           |
| TRV1-290-125-30 CE     | 3,200              | CE 120          | on req.*  |                        |                    |                 |           |                        |                    |                 |           |
| TRV1-290-145-30 CE     | 3,800              | CE 140          | 323390    |                        |                    |                 |           |                        |                    |                 |           |
| <b>Length 3,600 mm</b> |                    |                 |           |                        |                    |                 |           |                        |                    |                 |           |
| TRV1-360-115-30 CE     | 1,900              | CE 110          | 322900    |                        |                    |                 |           |                        |                    |                 |           |
| TRV1-360-125-30 CE     | 2,300              | CE 120          | on req.*  |                        |                    |                 |           |                        |                    |                 |           |
| TRV1-360-145-30 CE     | 2,700              | CE 140          | 323460    |                        |                    |                 |           |                        |                    |                 |           |

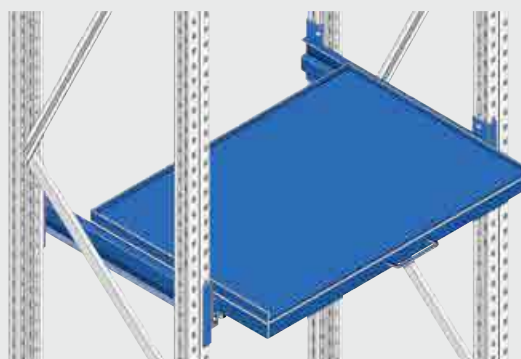


\* Minimum order quantity on request.

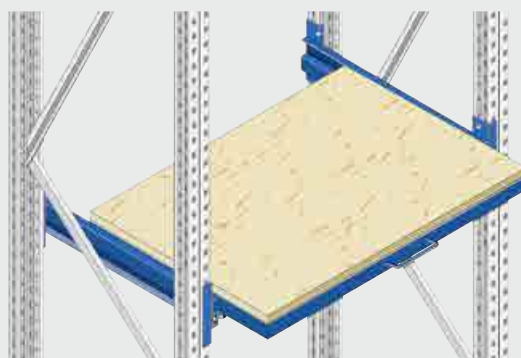
# PR 600 accessories



Extendable shelf, sheet metal cladding, smooth



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



Extendable shelf, chipboard cladding

## Heavy duty extendable shelves

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

## Heavy duty extendable shelves, 67% extendable

| Item  | Frame depth (mm) | Usable depth (mm) | Extension length (mm) | Load capacity (kg) | Order no.     |
|---|------------------|-------------------|-----------------------|--------------------|---------------|
| <b>Extendable shelf, sheet metal cladding, smooth</b>       |                  |                   |                       |                    |               |
| For racks with clear bay width 900 mm, usable width 800 mm. |                  |                   |                       |                    |               |
| <b>AB 08.091</b>  | 850              | 800               | 530                   | 1,000              | <b>143230</b> |
| <b>AB 12.091</b>  | 1,250            | 1,200             | 830                   | 1,000              | <b>143260</b> |

|   |       |       |     |       |               |
|---|-------|-------|-----|-------|---------------|
| For racks with clear bay width 1,300 mm, usable width 1,200 mm. |       |       |     |       |               |
| <b>AB 08.131</b>  | 850   | 800   | 530 | 1,000 | <b>143290</b> |
| <b>AB 12.131</b>  | 1,250 | 1,200 | 830 | 1,000 | <b>143320</b> |

|   |       |       |     |       |               |
|---|-------|-------|-----|-------|---------------|
| <b>Extendable shelf, sheet metal cladding, 3-sided rolling edge</b> |       |       |     |       |               |
| For racks with clear bay width 900 mm, usable width 800 mm.         |       |       |     |       |               |
| <b>AB 08.092</b>  | 850   | 800   | 530 | 1,000 | <b>143240</b> |
| <b>AB 12.092</b>  | 1,250 | 1,200 | 830 | 1,000 | <b>143270</b> |

|   |       |       |     |       |               |
|---|-------|-------|-----|-------|---------------|
| For racks with clear bay width 1,300 mm, usable width 1,200 mm. |       |       |     |       |               |
| <b>AB 08.132</b>  | 850   | 800   | 530 | 1,000 | <b>143300</b> |
| <b>AB 12.132</b>  | 1,250 | 1,200 | 830 | 1,000 | <b>143330</b> |

|   |       |       |     |       |               |
|---|-------|-------|-----|-------|---------------|
| <b>Extendable shelf, chipboard cladding</b>                 |       |       |     |       |               |
| For racks with clear bay width 900 mm, usable width 800 mm. |       |       |     |       |               |
| <b>AB 08.093</b>  | 850   | 800   | 530 | 1,000 | <b>143250</b> |
| <b>AB 12.093</b>  | 1,250 | 1,200 | 830 | 1,000 | <b>143280</b> |

|   |       |       |     |       |               |
|---|-------|-------|-----|-------|---------------|
| For racks with clear bay width 1,300 mm, usable width 1,200 mm. |       |       |     |       |               |
| <b>AB 08.133</b>  | 850   | 800   | 530 | 1,000 | <b>143310</b> |
| <b>AB 12.133</b>  | 1,250 | 1,200 | 830 | 1,000 | <b>143340</b> |

## Heavy duty extendable shelves, 100% extendable

| Item  | Frame depth (mm) | Usable depth (mm) | Extension length (mm) | Load capacity (kg) | Order no.     |
|---|------------------|-------------------|-----------------------|--------------------|---------------|
| <b>Extendable shelf, sheet metal cladding, smooth</b>       |                  |                   |                       |                    |               |
| For racks with clear bay width 900 mm, usable width 800 mm. |                  |                   |                       |                    |               |
| <b>AB 08.091 V</b>  | 850              | 800               | 800                   | 1,000              | <b>143800</b> |
| <b>AB 12.091 V</b>  | 1,250            | 1,200             | 1,200                 | 1,000              | <b>143860</b> |

|   |       |       |       |       |               |
|---|-------|-------|-------|-------|---------------|
| For racks with clear bay width 1,300 mm, usable width 1,200 mm. |       |       |       |       |               |
| <b>AB 08.131 V</b>  | 850   | 800   | 800   | 1,000 | <b>143830</b> |
| <b>AB 12.131 V</b>  | 1,250 | 1,200 | 1,200 | 1,000 | <b>143890</b> |

|   |       |       |       |       |               |
|---|-------|-------|-------|-------|---------------|
| <b>Extendable shelf, sheet metal cladding, 3-sided rolling edge</b> |       |       |       |       |               |
| For racks with clear bay width 900 mm, usable width 800 mm.         |       |       |       |       |               |
| <b>AB 08.092 V</b>  | 850   | 800   | 800   | 1,000 | <b>143810</b> |
| <b>AB 12.092 V</b>  | 1,250 | 1,200 | 1,200 | 1,000 | <b>143870</b> |

|   |       |       |       |       |               |
|---|-------|-------|-------|-------|---------------|
| For racks with clear bay width 1,300 mm, usable width 1,200 mm. |       |       |       |       |               |
| <b>AB 08.132 V</b>  | 850   | 800   | 800   | 1,000 | <b>143840</b> |
| <b>AB 12.132 V</b>  | 1,250 | 1,200 | 1,200 | 1,000 | <b>143900</b> |

|   |       |       |       |       |               |
|---|-------|-------|-------|-------|---------------|
| <b>Extendable shelf, chipboard cladding</b>                 |       |       |       |       |               |
| For racks with clear bay width 900 mm, usable width 800 mm. |       |       |       |       |               |
| <b>AB 08.093 V</b>  | 850   | 800   | 800   | 1,000 | <b>143820</b> |
| <b>AB 12.093 V</b>  | 1,250 | 1,200 | 1,200 | 1,000 | <b>143880</b> |

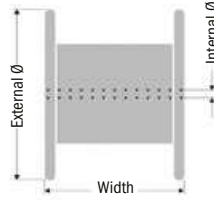
|   |       |       |       |       |               |
|---|-------|-------|-------|-------|---------------|
| For racks with clear bay width 1,300 mm, usable width 1,200 mm. |       |       |       |       |               |
| <b>AB 08.133 V</b>  | 850   | 800   | 800   | 1,000 | <b>143850</b> |
| <b>AB 12.133 V</b>  | 1,250 | 1,200 | 1,200 | 1,000 | <b>143910</b> |

Order no. = on stock



## ► Cable drum sizes as per DIN 46 391

| Nominal size | External Ø (mm) | Internal Ø (mm) | Width (mm) | Clear bay width (mm) | Max. load-bearing capacity (kg) |
|--------------|-----------------|-----------------|------------|----------------------|---------------------------------|
| N 5          | 470             | 56              | 470        | 900                  | 100                             |
| N 6          | 630             | 56              | 470        | 900                  | 100                             |
| N 7          | 710             | 80              | 550        | 900                  | 250                             |
| N 8          | 800             | 80              | 550        | 900                  | 650                             |
| N 9          | 900             | 80              | 710        | 1,100                | 800                             |
| N 10         | 1,050           | 80              | 710        | 1,100                | 1,000                           |
| N 12         | 1,250           | 80              | 930        | 1,300                | 1,500                           |

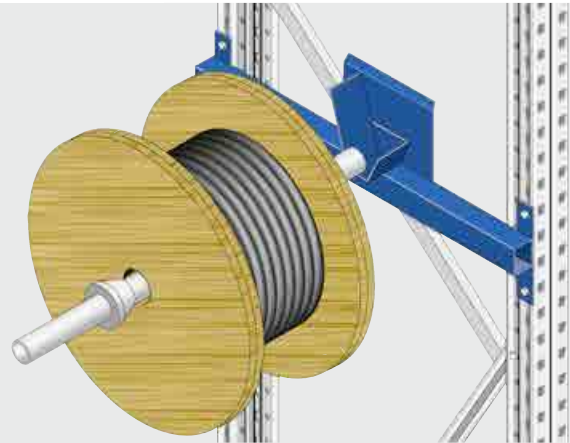


## Accessories

## Cable drum axles

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

| Item        | Clear bay width (mm) | Design for | Cone type | for cable drums | Order no. |
|-------------|----------------------|------------|-----------|-----------------|-----------|
| TRA KM 0905 | 900                  | Type KM    | AK 33     | N 5 - N 6       | 143410    |
| TRA KM 0910 |                      | Type KM    | AK 48     | N 7 - N 8       | 143920    |
| TRA KM 1105 | 1,100                | Type KM    | AK 33     | N 5 - N 6       | 143930    |
| TRA KM 1110 |                      | Type KM    | AK 48     | N 7 - N 8       | 143420    |
| TRA KM 1115 |                      | Type KM    | AK 60     | N 9 - N 10      | 143430    |
| TRA KM 1315 | 1,300                | Type KM    | AK 60     | N 9 - N 12      | 143440    |



QT KM cable drum beam

## Cable drum beams

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

| Item       | Frame depth (mm) | Type      | for cable drums | Order no. |
|------------|------------------|-----------|-----------------|-----------|
| QT KM 6208 | 850              | with tray | N 5 - N 12      | 143370    |
| QT KM 6210 | 1,050            | with tray | N 5 - N 12      | 143390    |

## Cones

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

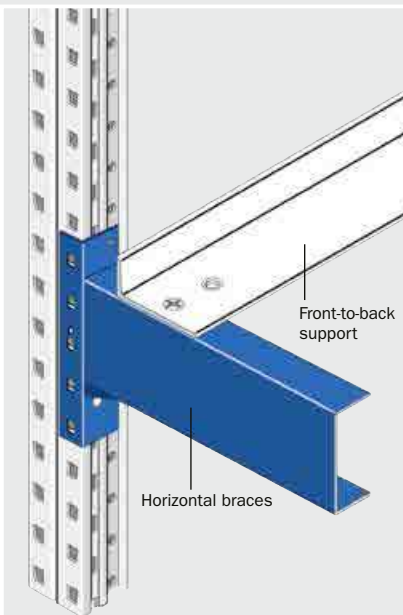
| Item  | for cable drums | Material  | Order no. |
|-------|-----------------|-----------|-----------|
| AK 33 | N 5 - N 6       | Polyamide | 143940    |
| AK 48 | N 7 - N 8       | Polyamide | 143350    |
| AK 60 | N 9 - N 12      | Polyamide | 143360    |

## U 100 horizontal braces

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

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

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

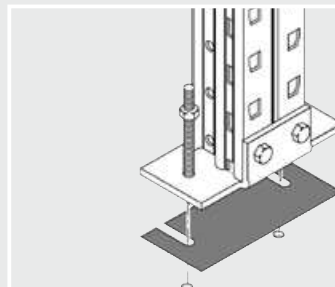
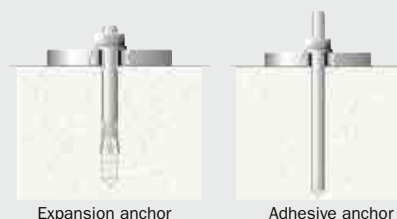


| Item    | Length (mm) | Pallet/container depth (mm) | Order no. |
|---------|-------------|-----------------------------|-----------|
| LVU 090 | 900         | 800                         | 116930    |
| LVU 110 | 1,100       | 1,000                       | 116940    |
| LVU 130 | 1,300       | 1,200                       | 116950    |

## Floor anchor

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

| Item     |                       | Order no. |
|----------|-----------------------|-----------|
| BA 10 SL | M 10 expansion anchor | 67030     |
| BA 10 VA | M 10 adhesive anchor  | 67390     |



## Base shims

To compensate for uneven ground, galvanized.

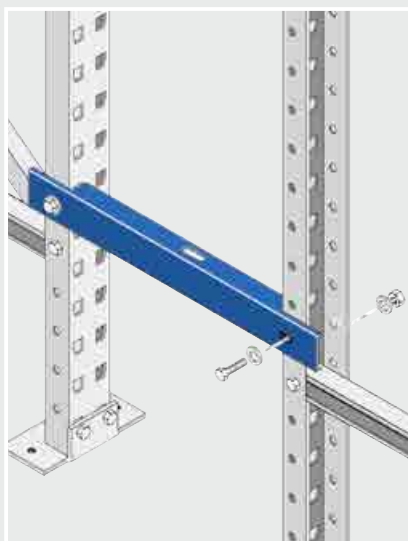
| Item                                     | Thickness (mm) | Support profile | Order no. |
|--|----------------|-----------------|-----------|
| <b>for PR 350 pallet racking systems</b> |                |                 |           |
| AP 35.81                                 | 1              | U 70            | 151000    |
| AP 35.81                                 | 1              | U 80            | 151000    |
| AP 35.11                                 | 1              | U 100           | 151020    |
| <b>for PR 600 pallet racking systems</b> |                |                 |           |
| AP 60.91                                 | 1              | all             | 143150    |
| AP 60.92                                 | 2              | all             | 155010    |

## Insulation plates

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

| Item                              | Thickness (mm) | Support profile | Order no. |
|-----------------------------------|----------------|-----------------|-----------|
| <b>for PR 350 pallet rackings</b> |                |                 |           |
| IP 35.81                          | 1              | U 70            | 151040    |
| IP 35.81                          | 1              | U 80            | 151040    |
| IP 35.11                          | 1              | U 100           | 151050    |
| <b>for PR 600 pallet rackings</b> |                |                 |           |
| IP 60.91                          | 1              | all             | 155020    |

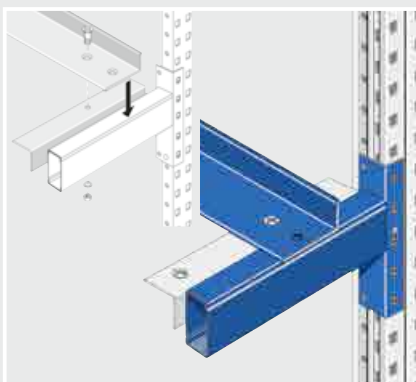
# Accessories for PR 350 and PR 600



## Spacers

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

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



## Fixing angle for front-to-back supports

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

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

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

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

### Cross section L 80/40/6

Load capacity up to 1,000 kg

#### Without backstop

| Item            | Frame depth (mm) | Pallet/ container depth (mm) | Order no.     |
|-----------------|------------------|------------------------------|---------------|
| <b>QA85</b>     | 850              | 800                          | <b>155100</b> |
| <b>QA105</b>    | 1,050            | 1,000                        | <b>155120</b> |
| <b>QA125-10</b> | 1,050            | 1,200                        | <b>155260</b> |
| <b>QA125</b>    | 1,250            | 1,200                        | <b>155140</b> |

#### With 30 mm backstop

| Item             | Frame depth (mm) | Pallet/ container depth (mm) | Order no.     |
|------------------|------------------|------------------------------|---------------|
| <b>QA85A</b>     | 850              | 800                          | <b>155110</b> |
| <b>QA105A</b>    | 1,050            | 1,000                        | <b>155130</b> |
| <b>QA125-10A</b> | 1,050            | 1,200                        | <b>155280</b> |
| <b>QA125A</b>    | 1,250            | 1,200                        | <b>155150</b> |

### Cross section L 100/50/6

Load capacity up to 1,500 kg

#### Without backstop

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

#### With 40 mm backstop

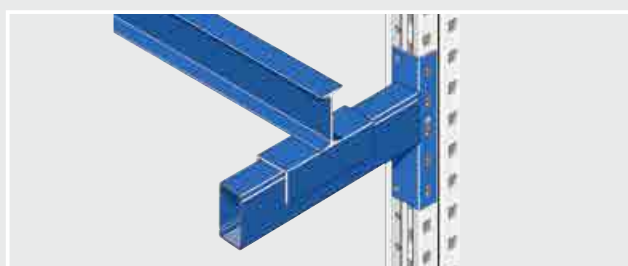
| Item              | Frame depth (mm) | Pallet/ container depth (mm) | Order no.     |
|-------------------|------------------|------------------------------|---------------|
| <b>QA855A</b>     | 850              | 800                          | <b>155170</b> |
| <b>QA1055A</b>    | 1,050         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



## Front-to-back supports

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

| Item               | Frame depth (mm) | Max. pallet weight with 2 front-to-back supports (kg) | Order no.      |
|--------------------|------------------|---|----------------|
| <b>TA-C-085-10</b> | 850              | 1,000   | <b>6700196</b> |
| <b>TA-C-105-10</b> | 1,050            | 1,000   | <b>6700197</b> |



## Fork spacers

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

| Item           | for frame depth (mm) | Order no.     |
|----------------|----------------------|---------------|
| <b>QU 851</b>  | 850                  | <b>155220</b> |
| <b>QU 1051</b> | 1,050                | <b>155230</b> |
| <b>QU 1251</b> | 1,250                | <b>155240</b> |

Order no. = on stock



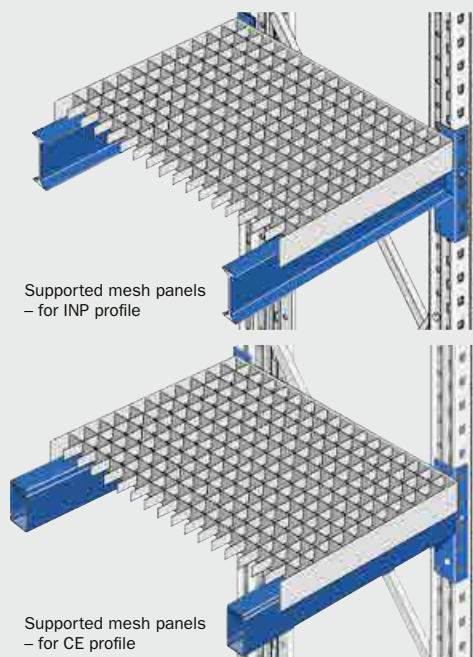
# Accessories for PR 350 and PR 600

## Mesh panels

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

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

| Item              | Frame depth (mm) | Clear bay width (mm) | Support member height (mm) | Compartment load (kg) | Order no. |
|-------------------|------------------|----------------------|----------------------------|-----------------------|-----------|
| FGA18-085-30-134X | 850              | 1,800                | 30                         | 1,600                 | 156090    |
| FGA18-105-30-134X | 1,050            | 1,800                | 30                         | 1,400                 | 156160    |
| FGA18-125-35-140X | 1,250            | 1,800                | 35                         | 1,500                 | 156230    |
| FGA22-085-30-134X | 850              | 2,200                | 30                         | 2,000                 | 156100    |
| FGA22-105-30-134X | 1,050            | 2,200                | 30                         | 1,700                 | 156170    |
| FGA22-125-35-140X | 1,250            | 2,200                | 35                         | 1,900                 | 156240    |
| FGA27-085-30-134X | 850              | 2,700                | 30                         | 2,500                 | 156110    |
| FGA27-105-30-134X | 1,050            | 2,700                | 30                         | 2,100                 | 156180    |
| FGA27-125-35-140X | 1,250            | 2,700                | 35                         | 2,300                 | 156250    |
| FGA29-085-30-134X | 850              | 2,900                | 30                         | 2,700                 | 156120    |
| FGA29-105-30-134X | 1,050            | 2,900                | 30                         | 2,300                 | 156190    |
| FGA29-125-35-140X | 1,250            | 2,900                | 35                         | 2,500                 | 156260    |
| FGA33-085-30-134X | 850              | 3,300                | 30                         | 3,000                 | 156130    |
| FGA33-105-30-134X | 1,050            | 3,300                | 30                         | 2,600                 | 156200    |
| FGA33-125-35-140X | 1,250            | 3,300                | 35                         | 2,900                 | 156270    |
| FGA36-085-30-134X | 850              | 3,600                | 30                         | 3,300                 | 156140    |
| FGA36-105-30-134X | 1,050            | 3,600                | 30                         | 2,800                 | 156210    |
| FGA36-125-35-140X | 1,250            | 3,600                | 35                         | 3,100                 | 156280    |
| FGA39-085-30-134X | 850              | 3,900                | 30                         | 3,500                 | 156150    |
| FGA39-105-30-134X | 1,050            | 3,900                | 30                         | 3,100                 | 156220    |
| FGA39-125-35-140X | 1,250            | 3,900                | 35                         | 3,400                 | 156290    |



## Sheet steel panels

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

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

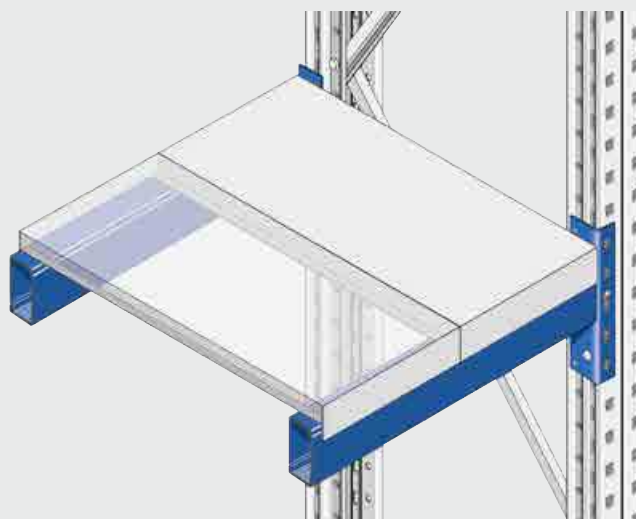
| Clear bay width (mm) | Panel width (mm) | Number of panels |
|----------------------|------------------|------------------|
| 3,300                | 300              | 11               |
| 3,600                | 300              | 12               |
| 3,900                | 300              | 13  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

### Panel width 200 mm

| Item              | for frame depth (mm) | Load (kg) | Order no. |
|-------------------|----------------------|-----------|-----------|
| FPA 20-070-40-40X | 700                  | 740       | 193140    |
| FPA 20-085-40-40X | 850                  | 680       | 193150    |
| FPA 20-105-40-40X | 1,050                | 550       | 193160    |
| FPA 20-125-40-40X | 1,250                | 460       | 193170    |

### Panel width 300 mm

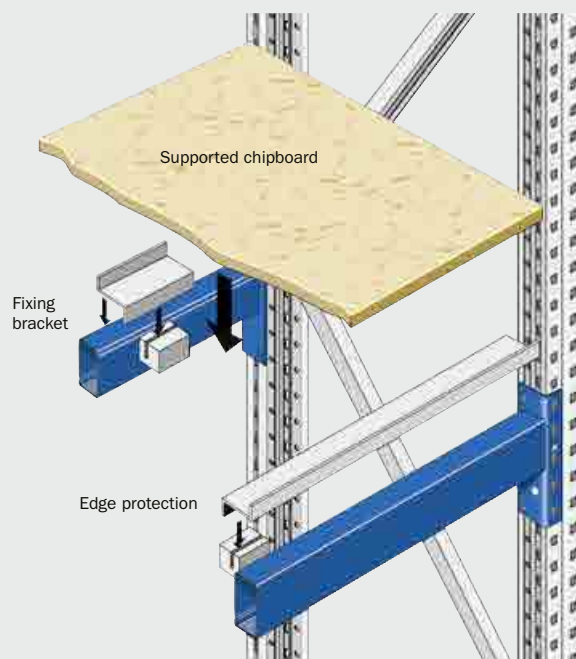
| Item              | for frame depth (mm) | Load (kg) | Order no. |
|-------------------|----------------------|-----------|-----------|
| FPA 30-070-40-30X | 700                  | 270       | 193100    |
| FPA 30-070-40-50X |                      | 730       | 193180    |
| FPA 30-085-40-30X | 850                  | 340       | 193110    |
| FPA 30-085-40-50X |                      | 700       | 193190    |
| FPA 30-105-40-30X | 1,050                | 200       | 193120    |
| FPA 30-105-40-50X |                      | 630       | 193200    |
| FPA 30-125-40-30X | 1,250                | 190       | 193130    |
| FPA 30-125-40-50X |                      | 500       | 193210    |



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

## Chipboard

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



## Edge protection

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

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

## Fixing bracket

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

|         |  |       |        |
|---------|--|-------|--------|
| FSHB 24 | Fixing bracket, incl. spacer block (plastic) | 1 pc. | 156910 |
|---------|--|-------|--------|

## Corner protector

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

ES 400 C corner protector

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

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

| Item             | Frame depth (mm) | Clear bay width (mm) | Comp. load (kg) | Order no. |
|------------------|------------------|----------------------|-----------------|-----------|
| FSA 18-085-38-NX | 850              | 1,800                | 1,300           | 306840    |
| FSA 18-105-38-NX | 1,050            | 1,800                | 950             | 306980    |
| FSA 18-125-38-NX | 1,250            | 1,800                | 600             | 307120    |
| FSA 22-085-38-NX | 850              | 2,200                | 1,600           | 306850    |
| FSA 22-105-38-NX | 1,050            | 2,200                | 1,100           | 306990    |
| FSA 22-125-38-NX | 1,250            | 2,200                | 750             | 307130    |
| FSA 27-085-38-NX | 850              | 2,700                | 2,000           | 306860    |
| FSA 27-105-38-NX | 1,050            | 2,700                | 1,400           | 307000    |
| FSA 27-125-38-NX | 1,250            | 2,700                | 900             | 307140    |
| FSA 29-085-38-NX | 850              | 2,900                | 2,200           | 306870    |
| FSA 29-105-38-NX | 1,050            | 2,900                | 1,500           | 307010    |
| FSA 29-125-38-NX | 1,250            | 2,900                | 1,000           | 307150    |
| FSA 33-085-38-NX | 850              | 3,300                | 2,500           | 306880    |
| FSA 33-105-38-NX | 1,050            | 3,300                | 1,700           | 307020    |
| FSA 33-125-38-NX | 1,250            | 3,300                | 1,100           | 307160    |
| FSA 36-085-38-NX | 850              | 3,600                | 2,700           | 306890    |
| FSA 36-105-38-NX | 1,050            | 3,600                | 1,900           | 307030    |
| FSA 36-125-38-NX | 1,250            | 3,600                | 1,200           | 307170    |
| FSA 39-085-38-NX | 850              | 3,900                | 2,900           | 306900    |
| FSA 39-105-38-NX | 1,050            | 3,900                | 2,000           | 307040    |
| FSA 39-125-38-NX | 1,250            | 3,900                | 1,300           | 307180    |

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

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

## Guard

To protect the rack supports against being damaged by ground conveyors, 140 mm wide, U-shaped, including 3 floor anchors.

Guard

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

Order no. = on stock





RAL 1021

MARKING

**Security regulations**

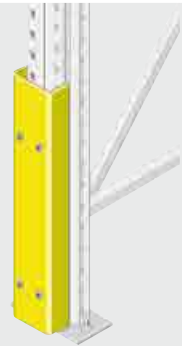
Fixed racks that are served by non-track-bound ground conveyors require adequate protection against damage to the rack frame on the corners and gangways

# Safety accessories for pallet racking systems

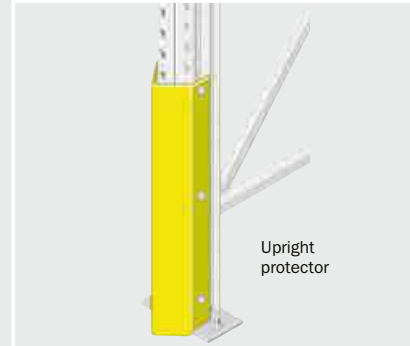
**Upright protector with rubber buffer**

U-profile, 750 mm high, including 4 rubber-metal buffers.

Upright protector with rubber buffer



Upright protector



| Item         | from profile | for support profile | Order no. |
|--------------|--------------|---------------------|-----------|
| STS 100G-750 | U 100        | P 75, U 70, U 80    | 158501    |
| STS 110G-750 | U 110        | P 90                | 158502    |
| STS 120G-750 | U 120        | P 100, U 100        | 158503    |

**Upright protector**

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

**for PR 350 system:**

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

**for PR 600 system:**

| Item          | for support width (mm) | Height (mm) | for support profile | Order no. |
|---------------|------------------------|-------------|---------------------|-----------|
| STS 75-6-400  | 75                     | 400         | P 75                | 158530    |
| STS 75-6-750  |                        | 750         | P 75                | 158600    |
| STS 90-6-400  | 90                     | 400         | P 90                | 158540    |
| STS 90-6-750  |                        | 750         | P 90                | 158610    |
| STS 100-6-400 | 100                    | 400         | P 100               | 158550    |
| STS 100-6-750 |                        | 750         | P 100               | 158620    |
| STS 120-6-400 | 120                    | 400         | P 120               | 158560    |
| STS 120-6-750 |                        | 750         | P 120               | 158630    |

**Buffer**

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

**Form B**

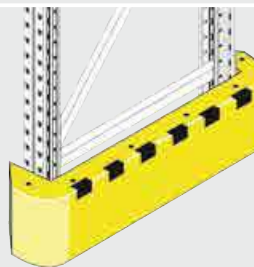
400 mm high, 245 mm wide, including floor anchors. For support profiles Type P 75 and P 90.

| Item        | for frame depth (mm) | Order no. |
|-------------|----------------------|-----------|
| RS24 0854 B | 850                  | 151510    |
| RS24 1054 B | 1,050                | 151520    |
| RS24 1254 B | 1,250                | 151530    |
| RS24 1804 B | 1,800                | 151540    |
| RS24 2204 B | 2,200                | 151550    |
| RS24 2354 B | 2,350                | 151560    |
| RS24 2604 B | 2,600                | 151610    |

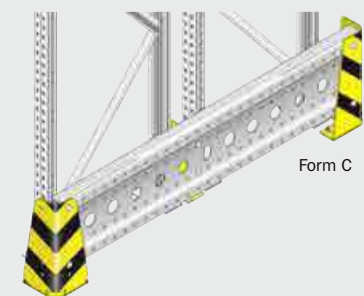
**Form B**

400 mm high, 265 mm wide, including floor anchors. For support profiles Type P 100 and P 120.

|             |       |        |
|-------------|-------|--------|
| RS26 0854 B | 850   | 151400 |
| RS26 1054 B | 1,050 | 151410 |
| RS26 1254 B | 1,250 | 151420 |
| RS26 1804 B | 1,800 | 151430 |
| RS26 2204 B | 2,200 | 151440 |
| RS26 2354 B | 2,350 | 151450 |
| RS26 2604 B | 2,600 | 151500 |



Form B



Form C

**Form C**

With a sturdy C-Sigma profile, 400 mm high, 75 mm wide, including floor anchor, with additional support above 1,800 mm long.

| Item       | for frame depth (mm) | Order no. |
|------------|----------------------|-----------|
| RS 854 C   | 850                  | 157430    |
| RS 1054 C  | 1,050                | 157440    |
| RS 1254 C  | 1,250                | 157450    |
| RS 1804 CZ | 1,800                | 157690    |
| RS 2204 CZ | 2,200                | 157700    |
| RS 2354 CZ | 2,350                | 157710    |
| RS 2604 CZ | 2,600                | 157720    |

# Safety accessories for pallet racking systems

## Mesh back panel cladding

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

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

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

## Ordering example

**For 3,600 mm high rack you require:**

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

**For a 3,600 mm high pallet racking and  
the bay width 3,900 mm order:**

1x GRM-3907, 2x GRM-3912, 4x bracket set,  
4x compensating rods, 4x mesh connectors



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

## Mesh segment height 773 mm

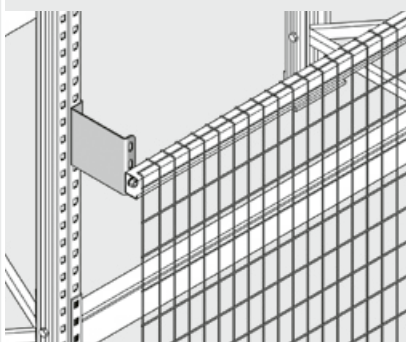
| Item     | Clear bay width (mm) | Order no. |
|----------|----------------------|-----------|
| GRM-0907 | 900                  | 6686319   |
| GRM-1107 | 1,100                | 6686320   |
| GRM-1307 | 1,300                | 6686321   |
| GRM-1807 | 1,800                | 6686328   |
| GRM-2207 |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

## Mesh segment height 1,173 mm

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

## Mesh segment height 1,273 mm

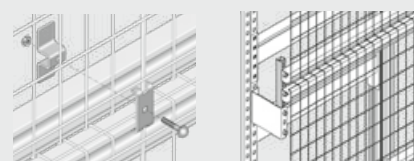
| Item     | Clear bay width (mm) | Order no. |
|----------|----------------------|-----------|
| GRM-0912 | 900                  | 6686325   |
| GRM-1112 | 1,100                | 6686326   |
| GRM-1312 | 1,300                | 6686327   |
| GRM-1812 | 1,800                | 6686344   |
| GRM-2212 |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



## Console set (incl. fixing kit)

| Item                                       | Length (mm) | Frame depth (mm) | Order no. |
|--|-------------|------------------|-----------|
| <b>without consideration of a end stop</b> |             |                  |           |
| GRM-K2-060-S                               | 60          | 850, 1,250       | 6690045   |
| GRM-K2-130-S                               | 130         | 1,050            | 6690046   |
| <b>with consideration of a end stop</b>    |             |                  |           |
| GRM-K2-180-S                               | 180         | 850, 1,250       | 6690047   |
| GRM-K2-340-S                               | 340         | 1,050            | 6690050   |

An adapter plate is required to install brackets on U 70 profile.  
Further information is available on request.



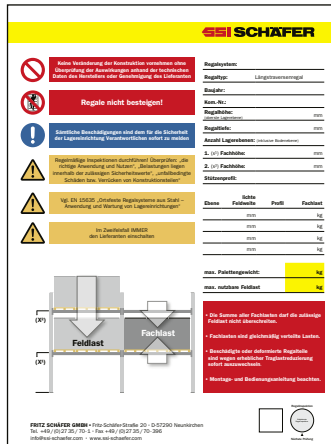
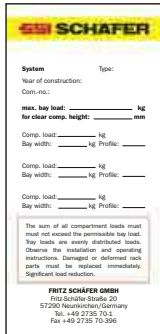
| Item  | Order no. |
|---|-----------|
| <b>Mesh connector (see table above)</b>     |           |
| GRM-GVS                                     | 6687406   |
| <b>Compensating rods (incl. fixing kit)</b> |           |
| GRM-ASS                                     | 6686298   |

Order no. = on stock



► **Mandatory labeling**

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



## Safety accessories for pallet racking systems

## Load signs

| Item                 | W x H<br>(mm) | Material                   | Order no.       |
|----------------------|---------------|----------------------------|-----------------|
| <b>PRTS 7050 LTR</b> | 450 x 600     | Aluminum, incl. fixing kit | <i>on req.*</i> |
| <b>PRTS 7050 QTR</b> | 450 x 600     | Aluminum, incl. fixing kit | <i>on req.*</i> |
| <b>TS 0615</b>       | 60 x 150      | PVC adhesive film          | <i>on req.*</i> |

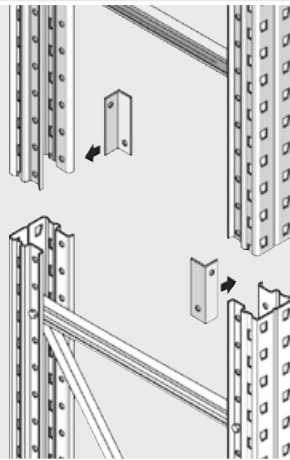
\* The technical data is defined via a time sheet. It is offered and invoiced as part of the price of the sign.

### Frame extension at row end

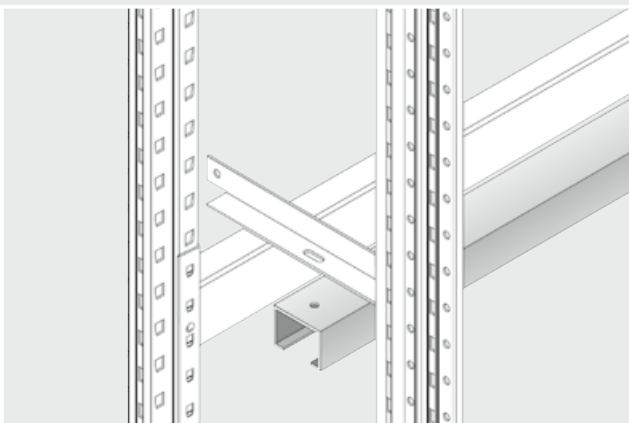
Protects against lower units from falling out of the sides, 500 mm high including fixing kit.

Surface: Dust Gray, RAL 7037 or galvanized.

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




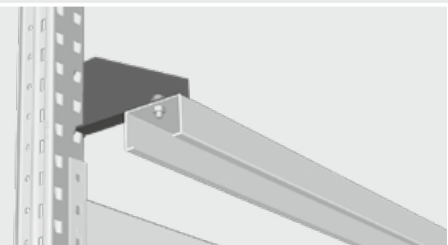
| Item  | System | Frame profile (mm) | Frame depth (mm) | Surface    | Order no. |
|-------|--------|--------------------|------------------|------------|-----------|
| AN 78 | PR 350 | 70                 | 850              | RAL 7037   | 33160     |
| AN 68 | PR 600 | 75                 | 850     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



## End stops


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

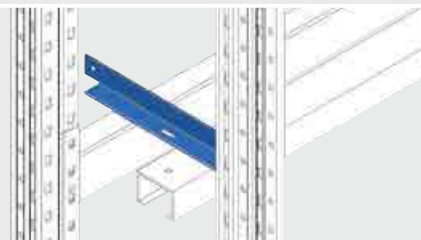
| Item         | Clear bay width<br>(mm) | Profile  | Order no.<br> |
|--------------|-------------------------|----------|--|
| DSC060FW1900 | 1,900                   | C 60/40  | 6689260  |
| DSC060FW2300 | 2,300                   | C 60/40  | 6689264  |
| DSC060FW2700 | 2,700                   | C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



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

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

| Item            | for frame depth<br>(mm) | Order no.<br> |
|-----------------|-------------------------|--|
| <b>DSC-K105</b> | 1,050                   | <b>6689690</b>   |



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

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

Further information is available on **page D14**.

# Storage and storage space marking

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

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

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

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

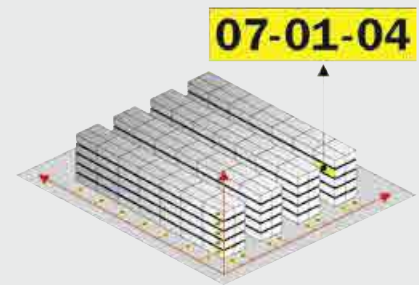
Systematic numbering of all storage spaces and the number key form the basis and the prerequisite for efficient warehouse organization.

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

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

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

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



## Further versions

on request



**5-128-07**

**012-05-3**

**06-03-05**

from 2,000 units on request

### Storage space labels

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

#### Quantity scale: 1 – 1,999 pieces

| Item         | W x H (mm) | Order no. |
|--------------|------------|-----------|
| R SK 1230 SG | 120 x 30   | 189900    |
| R SK 1438 SG | 140 x 38   | 189901    |
| R SK 2265 SG | 220 x 65   | 189902    |

**5-128-07**

**012-05-3**

**06-03-05**

from 2,000 units on request

### Storage space labels

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

#### Quantity scale: 1 – 1,999 pieces

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

Order no. = on stock



## Storage and storage space marking

**Label versions**

Colors: yellow, white. Other surface, normal or retro-reflective, self-adhesive or magnetic

**Position information**

one or more digits, numeric or alphanumeric

**Check digit**

with or without, inverted or normal

**Barcode**

with or without, various barcode types, various positions on the label (left, right, top, bottom), with or without clear text information

**Lettering**

Colors: signal black, blue, red. Other font heights scalable in steps, fonts with or without serifs

**Separators**

with or without various signs

**Logo/company symbol**

with or without text or graphics

**Border**

with or without

**Position arrow**

with or without, pointing up or down, various positions on the label (left, right)

**Storage space labels**

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

**Quantity scale: 1 – 1,999 pieces**

| Item          | W x H (mm) | Order no. |
|---------------|------------|-----------|
| R SK 1230 SGB | 192 x 38   | 189906    |
| R SK 1438 SGB | 224 x 38   | 189907    |
| R SK 2265 SGB | 380 x 65   | 189908    |



from 2,000 units on request

**Storage space labels**

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

**Quantity scale: 1 – 1,999 pieces**

| Item          | W x H (mm) | Order no. |
|---------------|------------|-----------|
| R SK 1230 SWB | 192 x 38   | 189909    |
| R SK 1438 SWB | 224 x 38   | 189910    |
| R SK 2265 SWB | 380 x 65   | 189911    |



from 2,000 units on request

Boxes / containers

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelving / KDR shelving

Semi-automated solutions

Logistics systems

Appendix

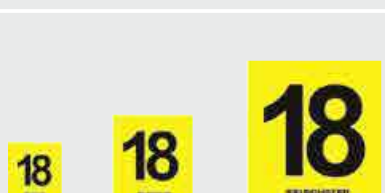
# Storage and storage space marking



## Floor markings

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

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



## Rack row signs

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

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



## Rack row angle sign

Made of PVC, impact-resistant, color: yellow, Font: black, up to 3 characters, including fixing kit.

| Item       | Length (mm) | Order no. |
|------------|-------------|-----------|
| R RW 30300 | 300 x 300   | 189915    |



## Label holder

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

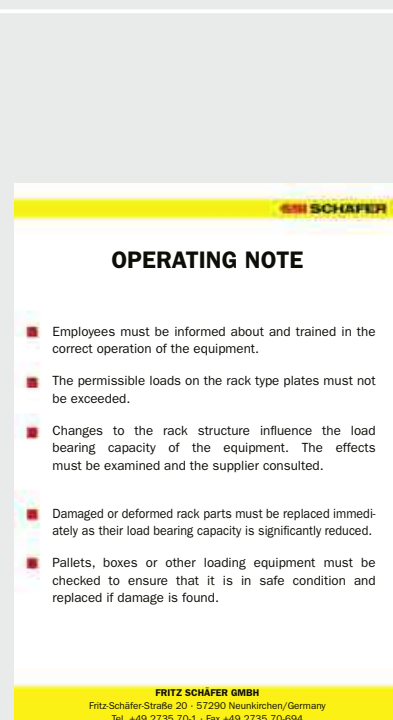
| Item      | Length (mm) | Order no. |
|-----------|-------------|-----------|
| K EH 0880 | 780         | 442518    |
| K EH 1080 | 980         | 442538    |
| K EH 1280 | 1,180       | 442558    |
| K EH 1350 | 1,250       | 442565    |
| K EH 1800 | 1,700       | 442610    |
| K EH 2200 | 2,100 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



## Push-in label

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

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



## Operating note / Safety note

FEM regulations for storage facilities.

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

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

Order no. = on stock





## PR 600 front-to-back beam racks

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

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

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

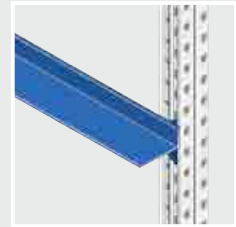
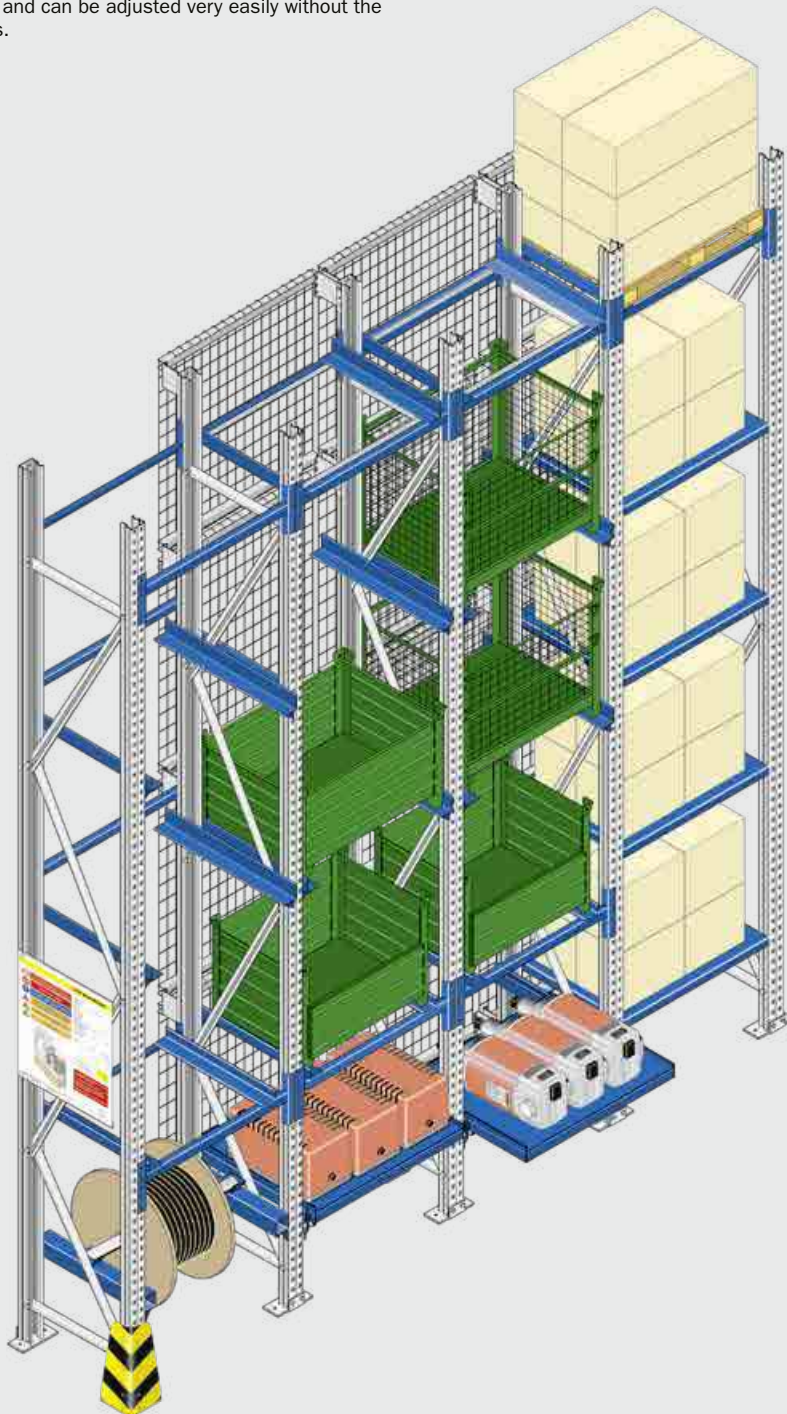




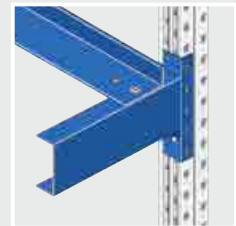
# Staging PR 600 front-to-back beams

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

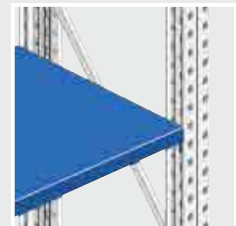
Virtually no restriction of storage height due to construction elements enables you to make optimum use of the room height. Front-to-back beam racks are especially suitable for order picking from laterally positioned containers and pallets. The crosspieces are self-locking and can be adjusted very easily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



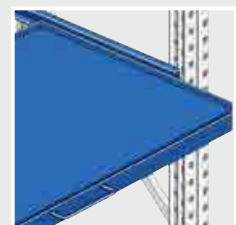
Front-to-back beam



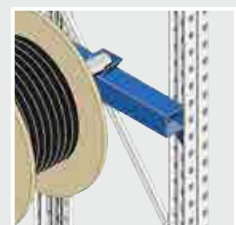
Front-to-back support with horizontal brace



Shelf



Extendable shelf



Cable drum beams



Corner protector



Load sign

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

Appendix

## Drive-in and drive-through racking

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

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

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

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

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

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



Further information

on request



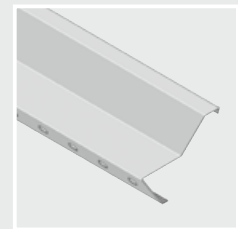
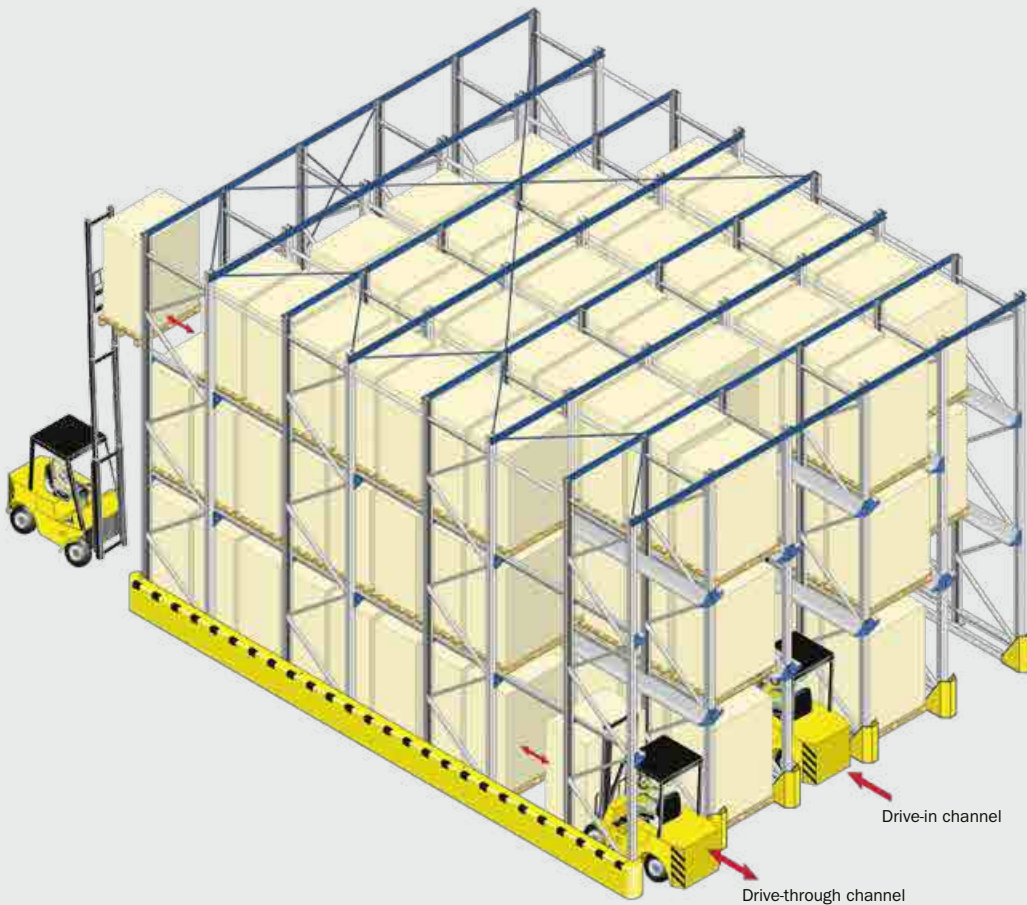
# Staging drive-in and drive-through racking

## Advantages of the drive-in racking:

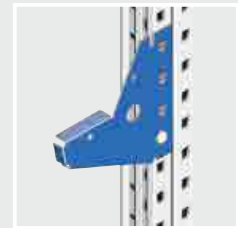
Maximum storage capacity with minimum spatial volume is the unique characteristic of drive-in racking systems. The racks are loaded and unloaded from one side. The channels can only be accessed in one direction.

## Advantages of the drive-through racking:

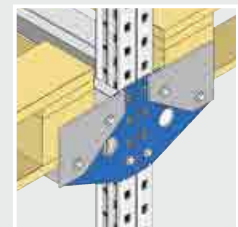
Free-standing rack units can be accessed from both sides. A forklift can be driven through the racks. The advantage is that loading and unloading can be carried out separately.



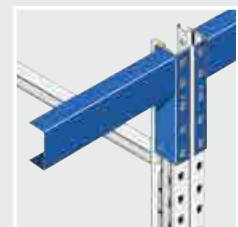
Front-to-back support



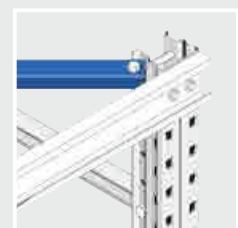
Attachment bracket



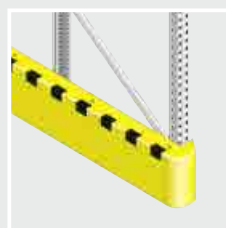
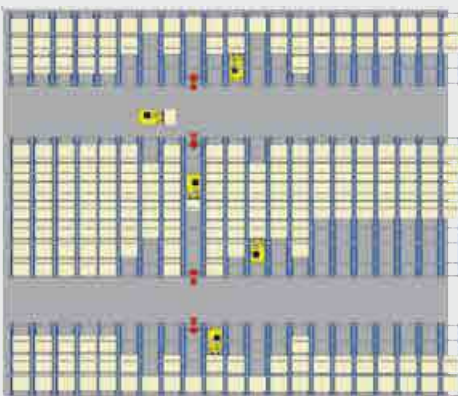
End stop



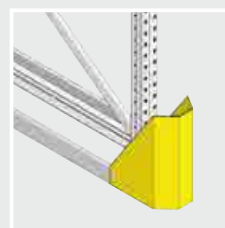
Horizontal brace



Horizontal cross brace



Buffer



Guard and floor rails

## Mobile racking for pallets and long goods

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

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

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

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

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



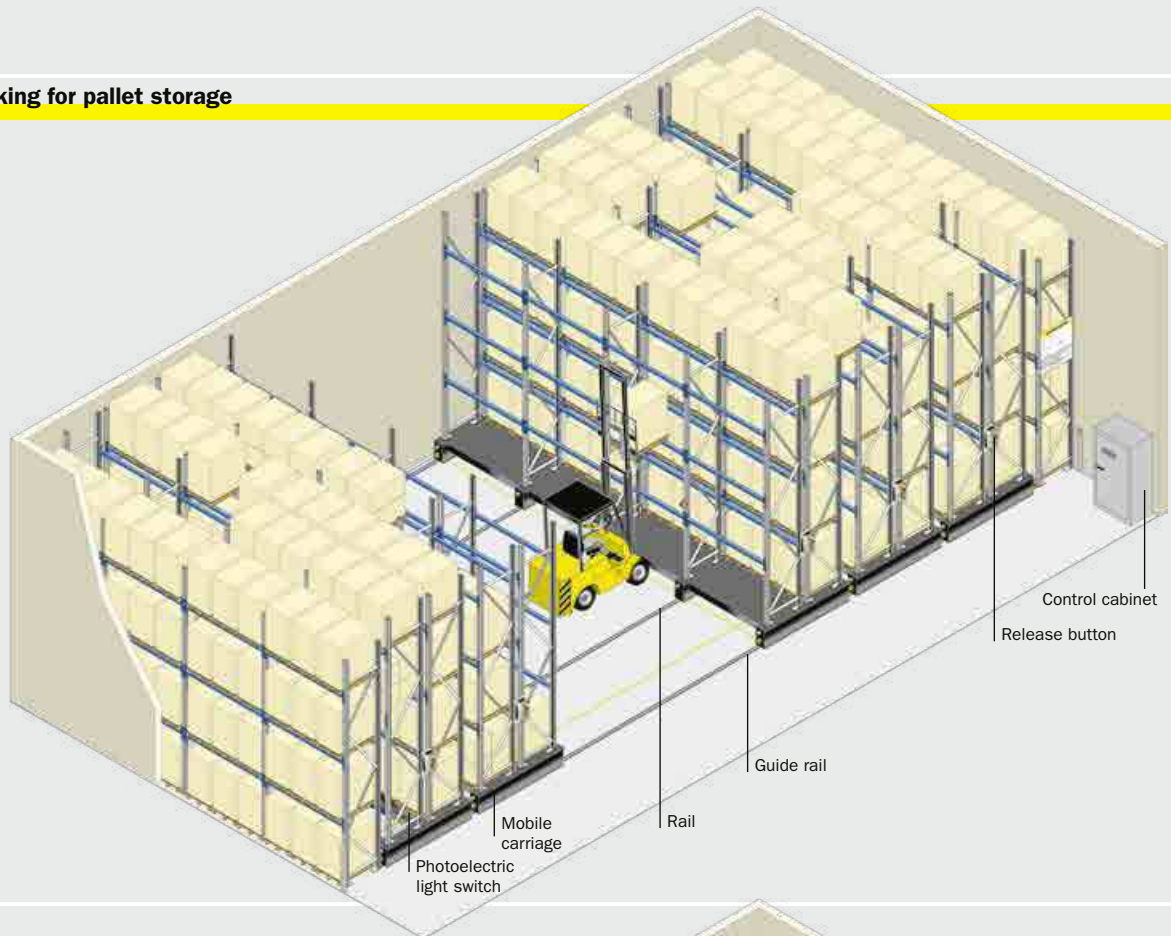
**Changed frame depth in 2021**

for **Mobile Racking Systems** from 1,050 mm to **1,100 mm**

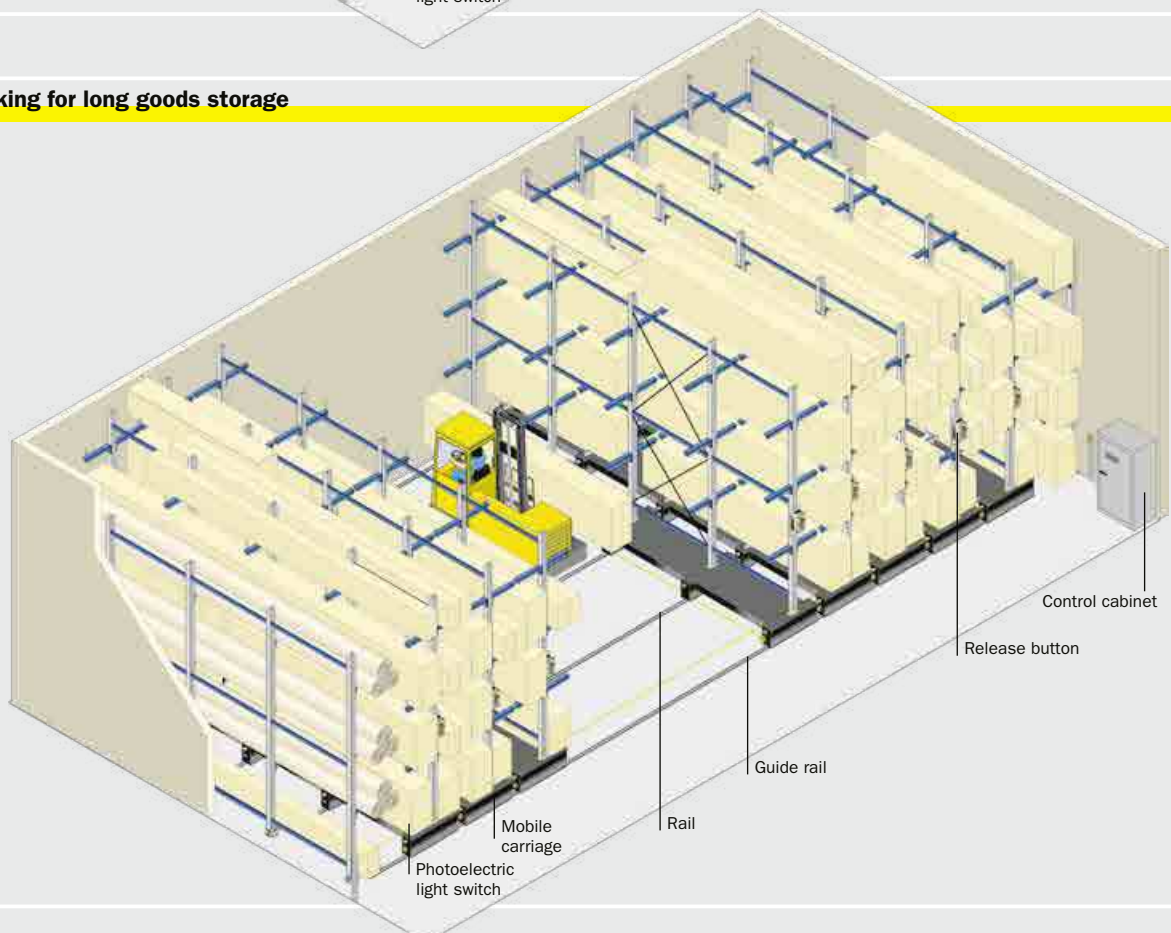


# Mobile rack staging

## Mobile racking for pallet storage



## Mobile racking for long goods storage


Boxes /  
containers

Modular  
shelving

Longspan  
racking

Pallet  
racking

Cantilever  
racking

Mezzanines /  
platforms

On-line shelving /  
KDR shelving

Semi-automated  
solutions

Logistics  
systems

Appendix



## Pallet live storage racking

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

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

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



**Further information**

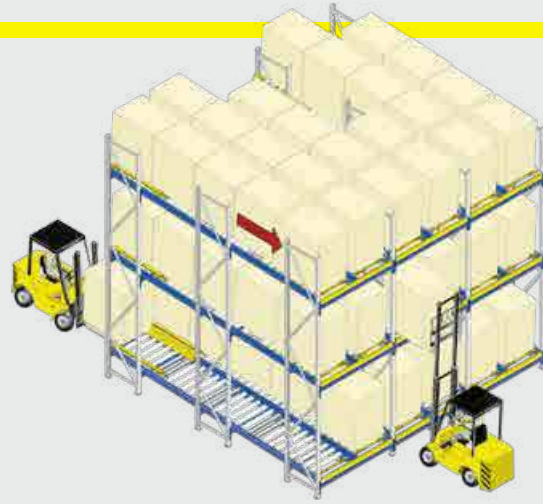
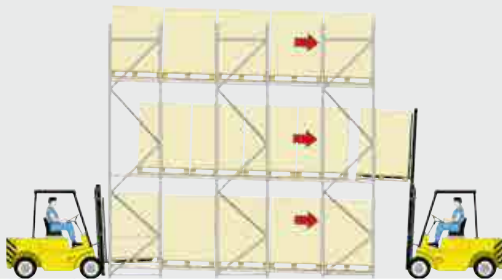
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# Staging live storage and pushback racks

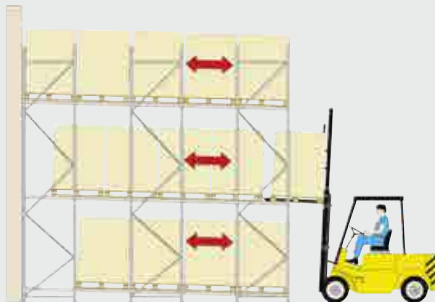
## Pallet live storage

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.



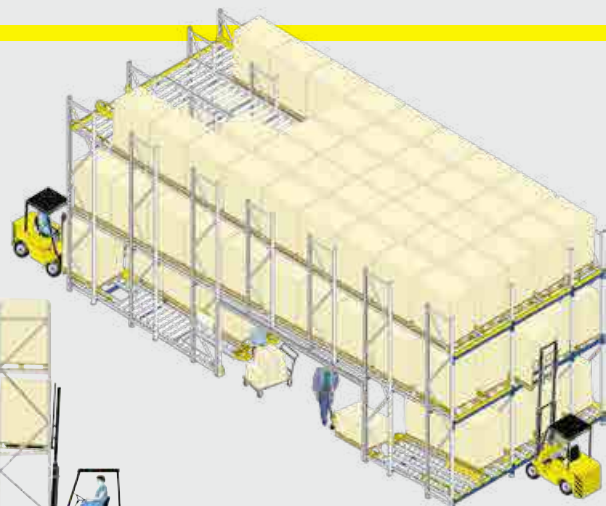
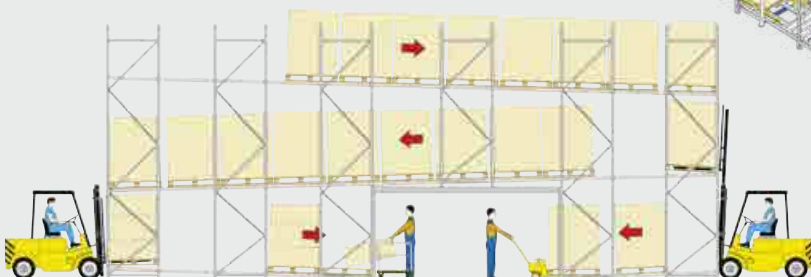
## Pallet pushback racking

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.

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Appendix



## Narrow aisle high rise racking system

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

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

SSI SCHAEFER sees itself as a professional service provider.



Further information

on request



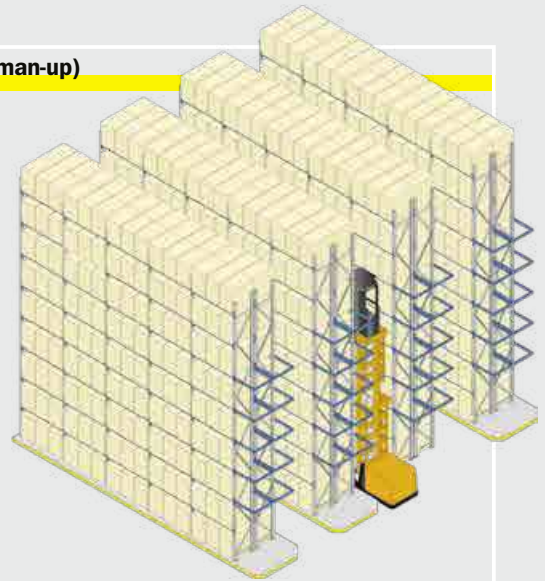
# High rise racking staging



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

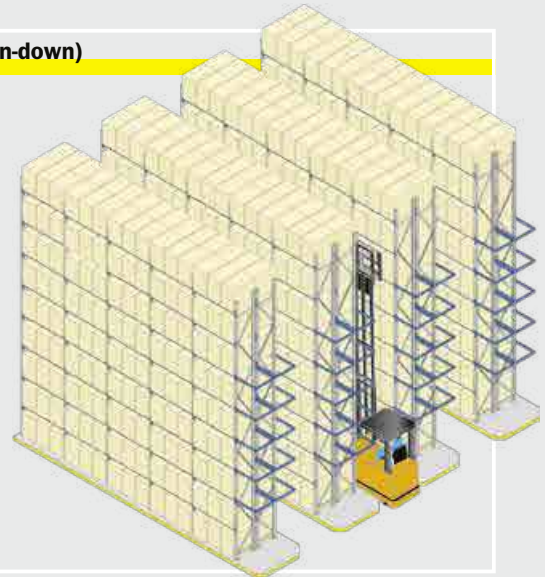
This is by far the most frequently used storage type. The advantages are:

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



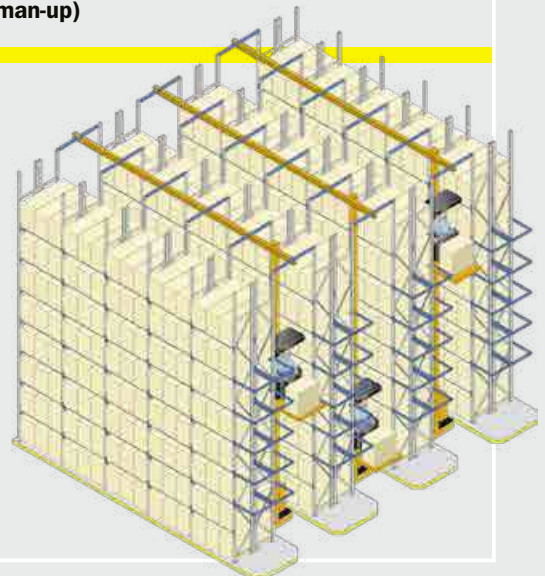
## Narrow aisle system with high-bay stackers (man-down)

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



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

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

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