

## **KDR – CARTON LIVE STORAGE SYSTEM**

System-based warehouse technology  
for order-picking, line feeding and handling





# Carton live storage system – for highly efficient use of storage space

As the variety of available products increases, so do the requirements imposed on order-picking. SSI SCHAEFER's live storage system makes the provision of goods and order-picking both flexible and efficient. It can be used for various storage tasks in all types of industry and the principle of "first in, first out" ensures that no outdated stock remains on the shelves. The stored goods roll automatically into an ideal picking position.

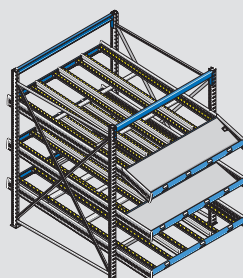
The system features a stable screw-type plug connection for maximum rigidity. The uprights are suitable for multi-tier installations and form an independent unit when used in conjunction with reinforcing crossbeams. Many different flow bed configurations can be selected with adjustable hooks within the "racking frame". These levels are assembled in one unit and the inclination as well as the heights between levels can be adjusted in small intervals without screws.

Sturdy roller tracks guarantee frictionless movement of containers from the replenishing side to the picking side. The different flow beds (with fixed stop and angled picking chutes, available in adjustable versions on request) provide an intelligent solution to every application.

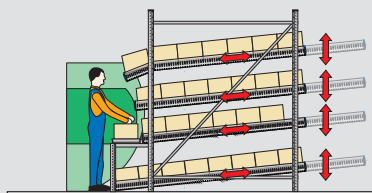


**KDR – the system**

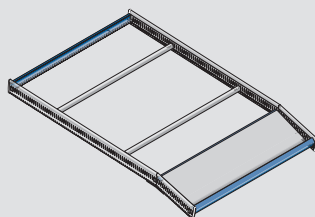
Flexible, modular slot-in system, designed to match your specifications with a minimum of fuss; can be combined with other SSI SCHAEFER systems; wide range of accessories available

**Ergonomics and solutions**

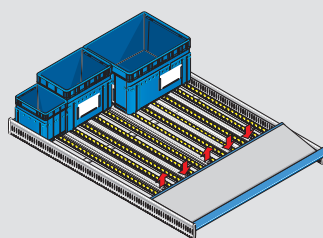
Ergonomic flow bed layout, infinitely adjustable in the height, thanks to 25 mm fixing holes in side-section; height adjustable in steps of 6.25 mm

**Material handling flow beds**

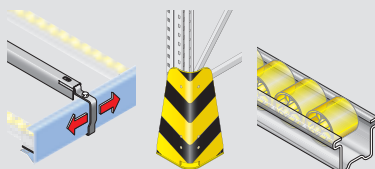
Combinations and configurations of material handling flow beds to fulfil any specification

**KDR – the system for KLT boxes**

For all sizes of container, for stowing lengthways or sideways; easy assembly and adjustment thanks to slot-in configuration

**Modular components – accessories**

Wide range of accessories to enhance working procedures and safety accessories that comply with the valid regulations



page

|                                               |    |
|-----------------------------------------------|----|
| ▶ KDR Carton Live Storage – the system        | 6  |
| ▶ Frame combinations                          | 8  |
| ▶ Standard frames                             | 9  |
| ▶ Frames with mono-posts                      | 11 |
| ▶ Frames with palletised buffer stock         | 13 |
| ▶ Floor fixing, Insulation plates             | 15 |
| ▶ Material handling flow beds and ergonomics  | 16 |
| ▶ Shelving fronts and order-picking capacity  | 17 |
| ▶ Solutions for order-picking systems         | 18 |
| ▶ Sample configurations                       | 21 |
| ▶ Combinations of material handling flow beds | 22 |
| ▶ Flat flow beds                              | 23 |
| ▶ Flat flow beds with front chute             | 27 |
| ▶ Flow beds with angled front chute           | 31 |
| ▶ The system for KLT boxes                    | 35 |
| ▶ Flat flow beds                              | 38 |
| ▶ Flat flow beds with front chute             | 40 |
| ▶ Flow beds with angled front chute           | 42 |
| ▶ KDR in ESD version                          | 44 |
| ▶ KDR – adapter solution                      | 46 |
| ▶ Flow beds – modular components              | 47 |
| ▶ Roller track                                | 52 |
| ▶ Guide rails                                 | 54 |
| ▶ Accessories                                 | 55 |
| ▶ Safety accessories                          | 58 |



## Examples of application



Material provision for assembly with KDR in the automotive industry



KDR with integrated conveyor system, pick-by-light and KMB returnable containers



KDR with integrated conveyor system in pharmaceutical wholesale



## Examples of application



Order-picking for drinks – with multiple guide rails



Flow beds combined with pick-by-light and FK boxes for order-picking



KDR with pick-by-light in the food industry

# KDR Carton Live Storage

## The advantages

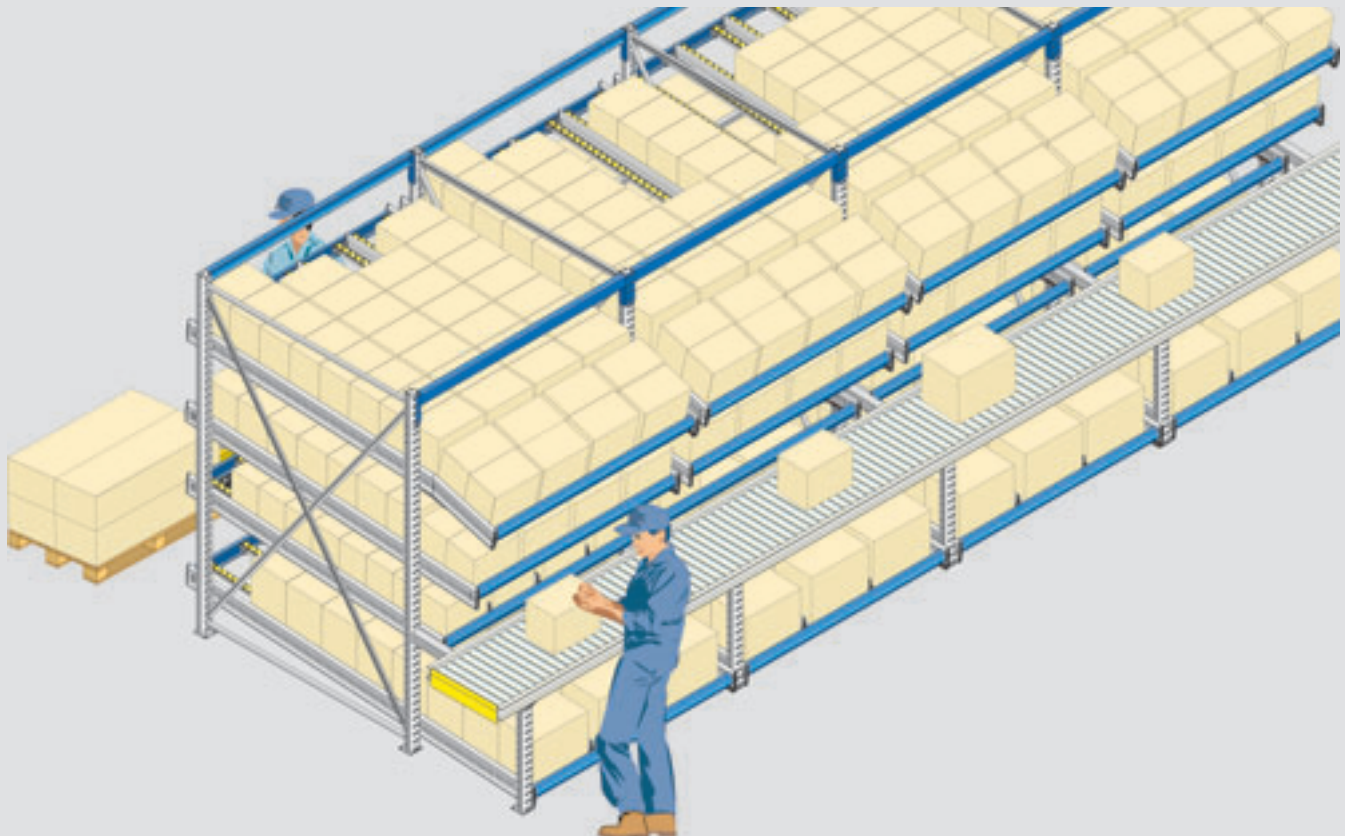
- Flexible, modular slot-in system for easy adaptation to your specifications
- Smooth-running roller tracks – choose between load capacities of 5 kg and 12 kg
- Can be combined with other SSI SCHAEFER shelving systems
- Smooth integration with conveyor systems
- Extra-wide range of accessories

## Supports

- Stability provided by 60, 75 and 90 mm uprights, for maximum rigidity and load-bearing performance
- Adjustment at intervals of just 6.25 mm, for maximum adaptability of storage system to items being handled
- Anti-tip clips

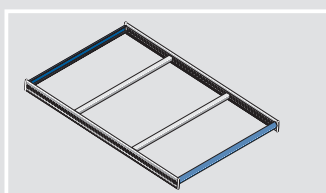
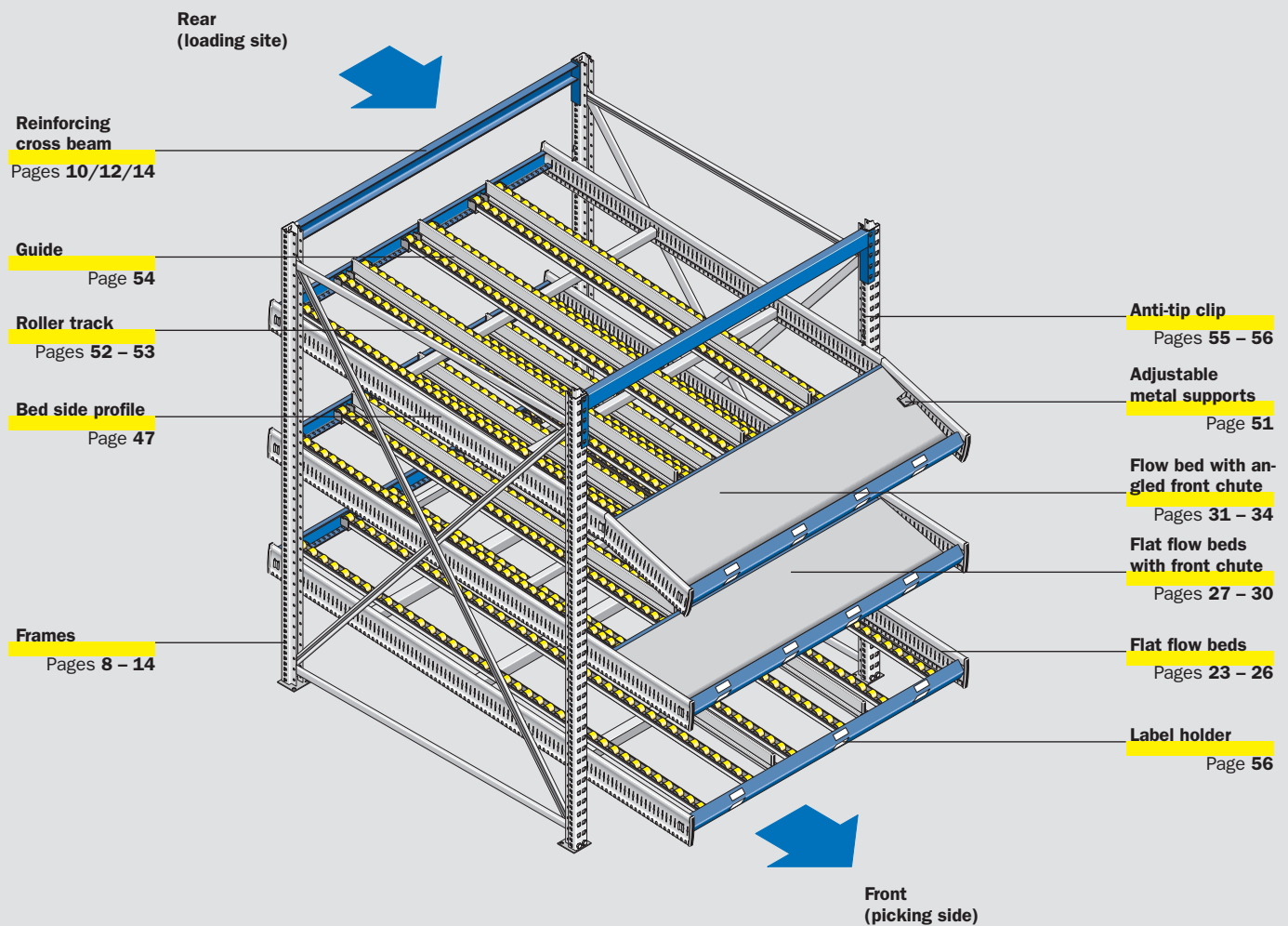
## Material handling flow beds

- The assembly of bolted braces provides frames with maximum rigidity
- Large range of flow bed-widths (up to 3,000 mm)
- Large range of flow bed-depths (up to 5,000 mm)
- Special fixing clips permit easy slot-in configuration with fixed positioning of roller tracks and guides in intervals of 5 mm
- Modular construction allows conversion from flat to angled front chute configuration – and much more besides
- The easy slot-in attachment of additional internal cross supports allows load capacity to be increased at any time
- Adjustment holes along the entire length of each side-section permit ergonomic configuration of flow beds, without any depth restrictions
- Add optional guide rails for really wide-ranging configuration possibilities
- All-round adjustments allow you to adapt the width or depth of each material handling flow bed to suit your needs at any time
- Three-way angle adjustment lets you optimise the system for smooth picking of material from the flow bed
- Label holders at the picking end

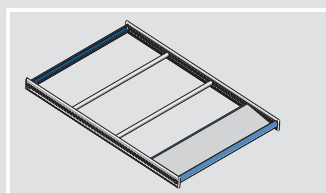




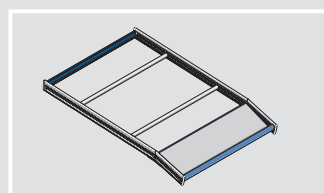
# KDR Carton Live Storage – the system



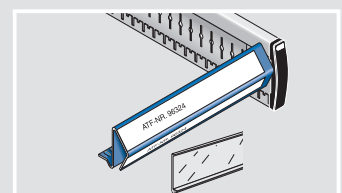
Flat flow bed



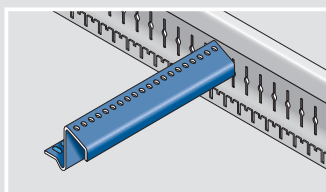
Flat flow bed with angled front chute



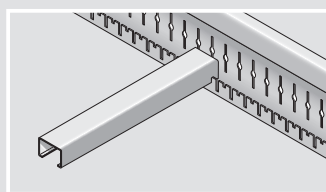
Flow bed with angled front chute



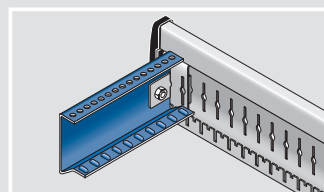
Front profile



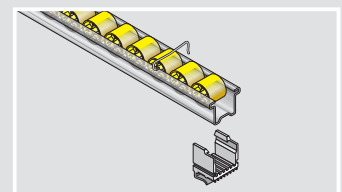
Chute profile



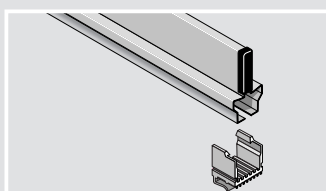
Cross support



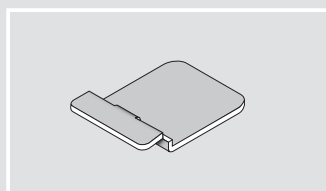
Rear profile



Roller track with spring clip and retainer clip



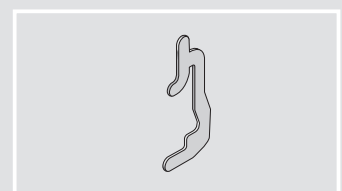
Guide with retainer clip



Support clip for chute plate

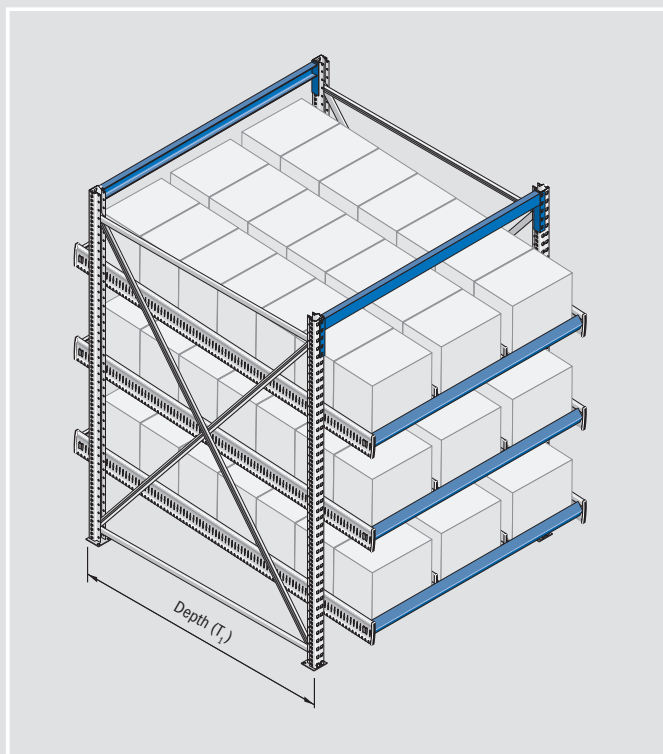


End cap

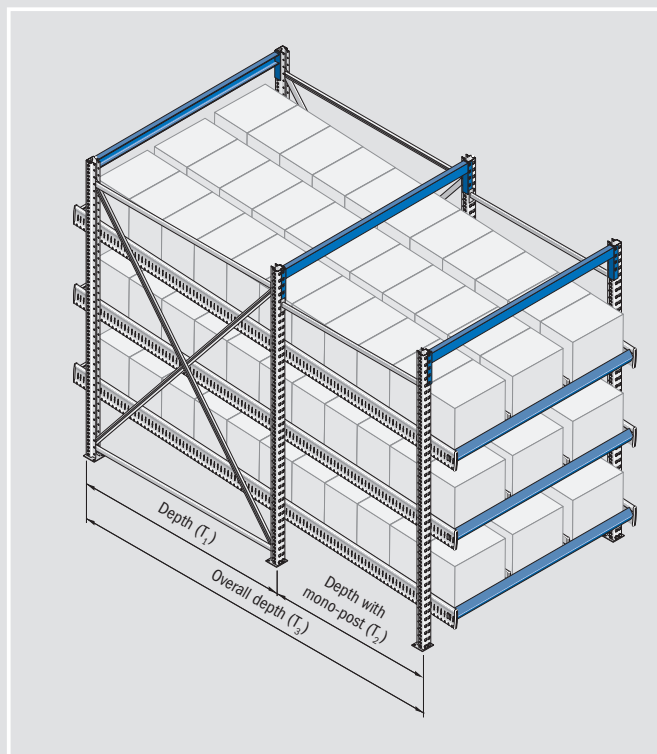


Anti-tip clip

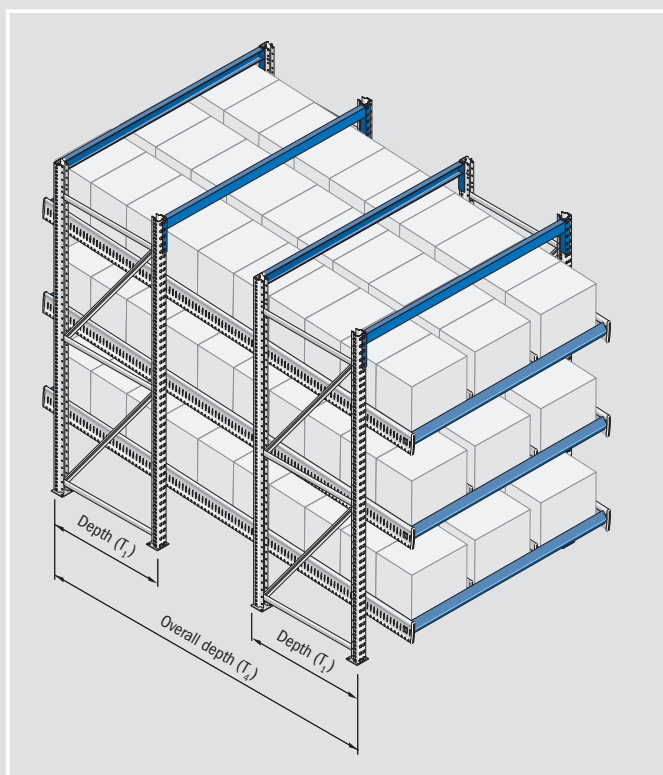
# Frame combinations



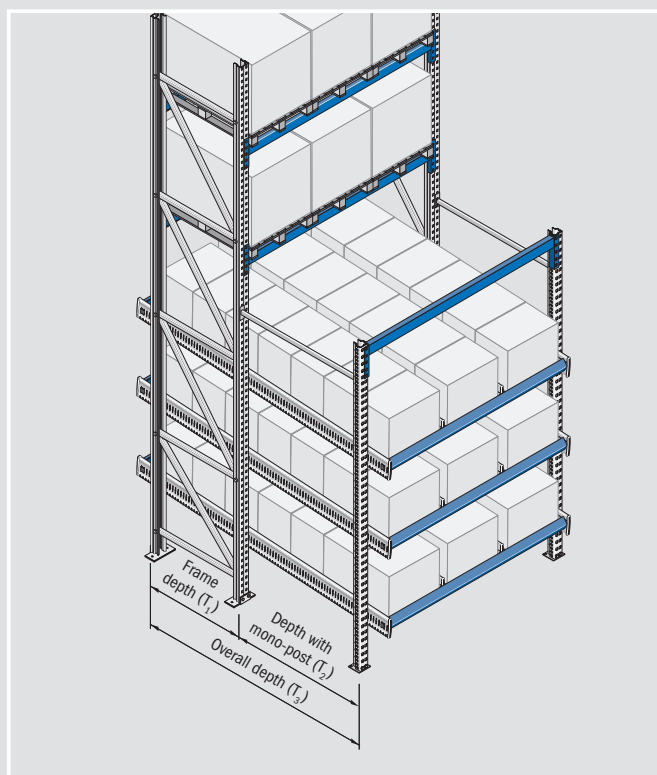
Standard frame (see page 9)



Frame arrangement with mono-post (see page 11)



Frame arrangement for maximum depth



Arrangement with palletised buffer stock (see page 13)



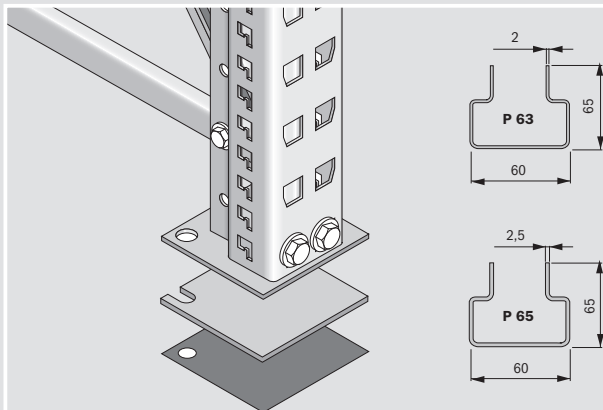
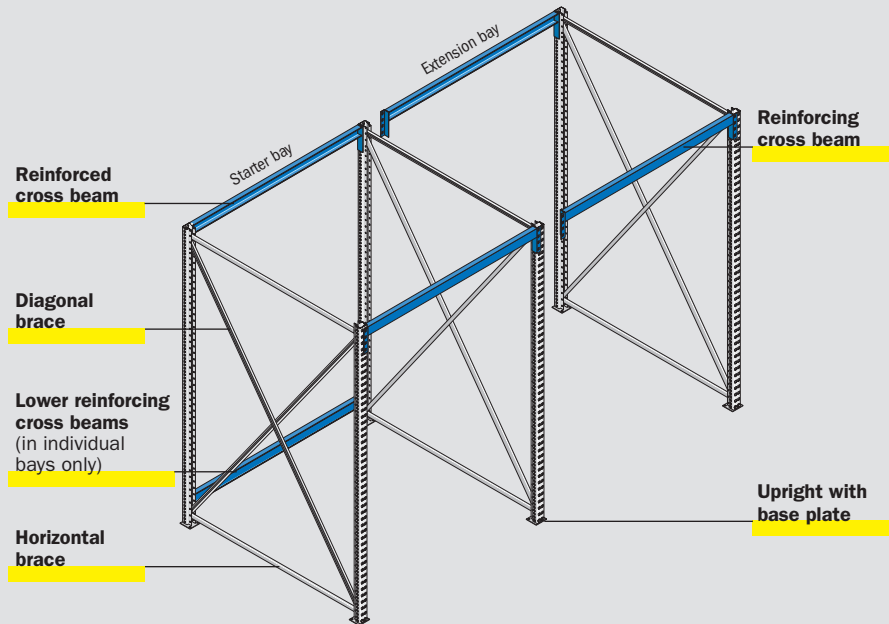
# Standard frames

## Standard frame

Frames with cross braces and reinforcing cross beam are joined to form the basis of a rigid structure.

The strengthened base plate provides improved load distribution over the floor surface.

Precise profile configuration with punched slots, which when used with support clips allows fine adjustment of flow beds.

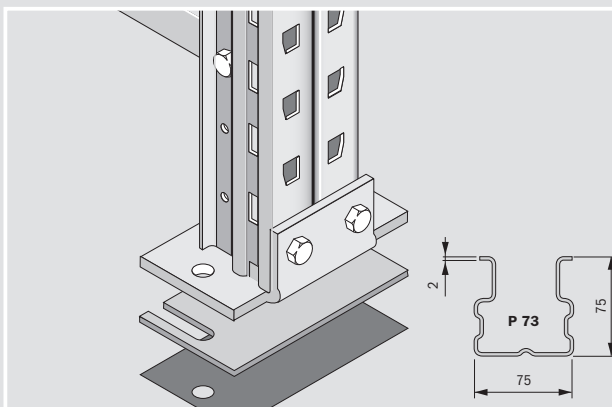


Profile P 63 und P 65

## Profile P 63 and P 65

The profile sections are made of cold-rolled high-strength steel and bolted to horizontal and diagonal braces to form a stable frame.

Slots are on a 50 mm pitch. Angle and height adjustment of the flow beds are in increments of 6.25 mm.  
Finish: galvanised.



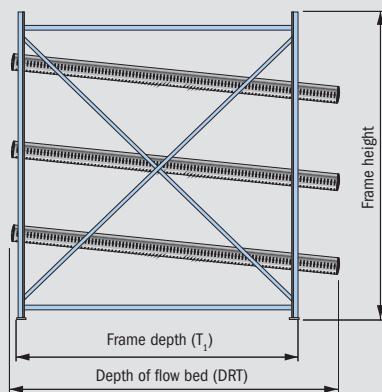
Profile P 73

## Profile P 73 for higher loads

These profile sections, which are made of cold-rolled high-strength steel, are formed in a special process that guarantees maximum rigidity. They are bolted to horizontal and diagonal braces to provide a highly stable frame.

Slots are on a 50 mm pitch. Angle and height adjustment of the flow beds are in increments of 12.5 mm.  
Finish: galvanised.

# Standard frames



## Standard frame

The bay loads indicated only apply if frames are fully floor fixed. Please order one floor anchor for each upright. Concrete grade min. B25. Individual bay with three reinforcing cross beams. Use two reinforcing cross beams with two bays and more.

### Example:

Frame depth  $T_1$  = depth of flow bed DRT - 450 mm

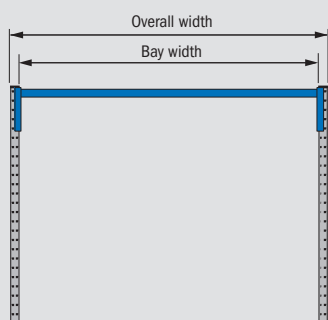
| Item                                | Depth of flow bed DRT mm | Frame depth $T_1$ mm | Frame height mm | Bay load max. kg | Order no. |
|-------------------------------------|--------------------------|----------------------|-----------------|------------------|-----------|
| <b>Upright profile section P 63</b> |                          |                      |                 |                  |           |
| K-RP 63-0850                        | 1,300                    | 850                  | 2,500           | 2,500            | 439550    |
| K-RP 63-1250                        | 1,700                    | 1,250                | 2,500           | 2,500            | 439560    |
| K-RP 63-1450                        | 1,900                    | 1,450                | 2,500           | 2,500            | 439570    |
| K-RP 63-1650                        | 2,100                    | 1,650                | 2,500           | 2,500            | 439580    |
| K-RP 63-2050                        | 2,500                    | 2,050                | 2,500           | 2,500            | 439590    |
| K-RP 63-2650                        | 3,100                    | 2,650                | 2,500           | 2,500            | 439600    |
| K-RP 63-1050                        | for mono-post            | 1,050                | 2,500           | 2,500            | 439555    |

### Upright profile section P 65

|              |               |       |       |       |        |
|--------------|---------------|-------|-------|-------|--------|
| K-RP 65-850  | 1,300         | 850   | 2,500 | 3,400 | 439610 |
| K-RP 65-1250 | 1,700         | 1,250 | 2,500 | 3,400 | 439620 |
| K-RP 65-1450 | 1,900         | 1,450 | 2,500 | 3,400 | 439630 |
| K-RP 65-1650 | 2,100         | 1,650 | 2,500 | 3,400 | 439640 |
| K-RP 65-2050 | 2,500         | 2,050 | 2,500 | 3,400 | 439650 |
| K-RP 65-2650 | 3,100         | 2,650 | 2,500 | 3,400 | 439660 |
| K-RP 65-1050 | for mono-post | 1,050 | 2,500 | 3,400 | 439615 |

### Upright profile section P 73

|              |               |       |       |       |        |
|--------------|---------------|-------|-------|-------|--------|
| RV 730258    | 1,300         | 850   | 2,500 | 4,500 | 135820 |
| RV 730252    | 1,700         | 1,250 | 2,500 | 4,500 | 135940 |
| K-RP 73-1450 | 1,900         | 1,450 | 2,500 | 4,500 | 439670 |
| K-RP 73-1650 | 2,100         | 1,650 | 2,500 | 4,500 | 439680 |
| K-RP 73-2050 | 2,500         | 2,050 | 2,500 | 4,500 | 439690 |
| RV 730251    | for mono-post | 1,050 | 2,500 | 4,500 | 135880 |

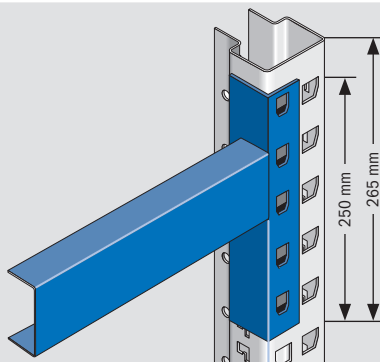


## Reinforcing cross beams

Reinforcing cross beams and the supporting frames form a separate unit, thus enabling flow beds to be adjusted individually without emptying the rack. The cross beams serve only to give rigidity to the rack structure and are not designed to accommodate pallets.

At least two reinforcing cross beams are required per bay depending on the load.

Finish: blue RAL 5010.



## Reinforcing cross beams "U" profile for P 63, P 65 and P 73

| Item      | Bay width mm                      | Order no. |
|-----------|-----------------------------------|-----------|
| K-AT-1350 | 1,350                             | 440810    |
| K-AT-1800 | 1,800                             | 441260    |
| K-AT-2200 | 2,200                             | 441660    |
| K-AT-2700 | 2,700                             | 442160    |
| Item      | Bay width for KLT applications mm | Order no. |
| K-AT-0880 | 880                               | 440340    |
| K-AT-1080 | 1,080                             | 440540    |
| K-AT-1280 | 1,280                             | 440740    |

Uprights P 63, P 65 and P 73

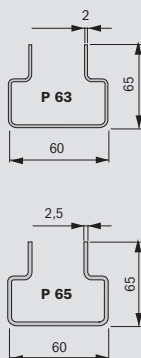
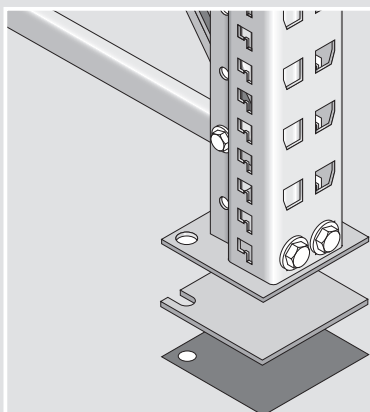
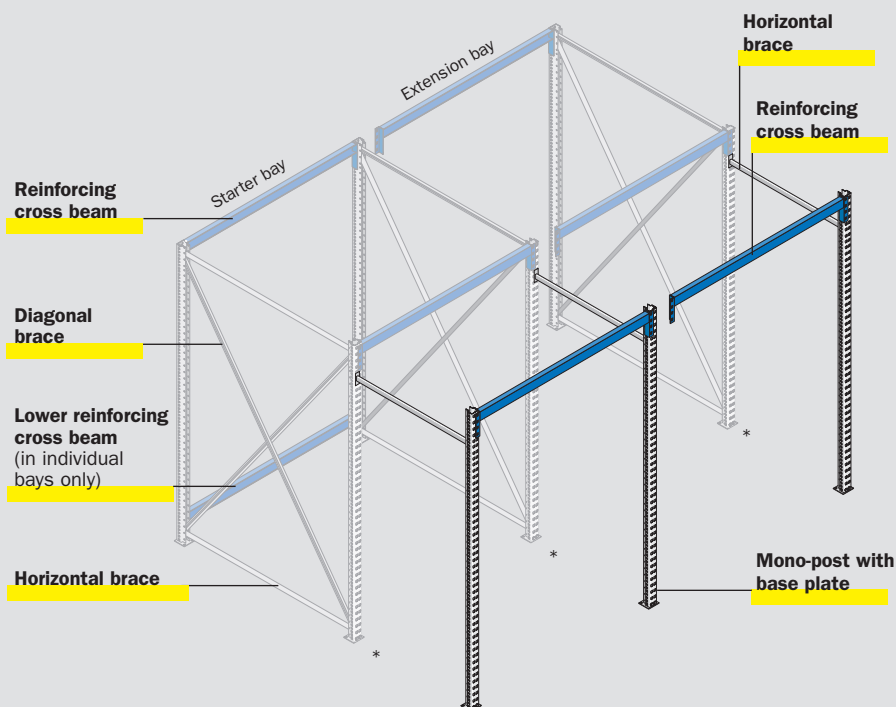


# Frames with mono-posts

## Support with mono-posts

The mono-post extends the depth of the frame structure when used in combination with the corresponding frame.

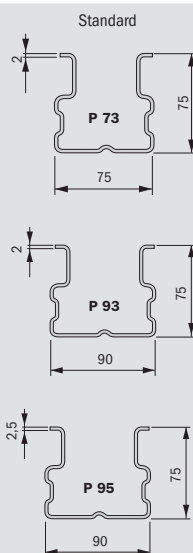
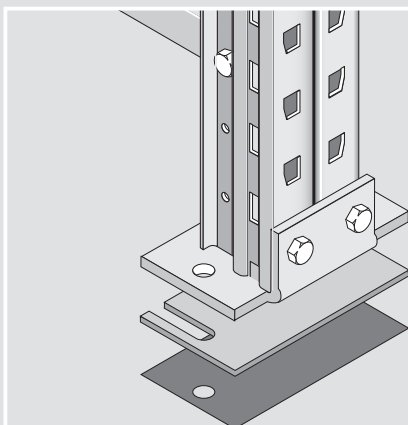
The assembly consists of a mono-post with base plate and crosspiece. This type of frame structure should be selected when greater depth is required and/or in cases where the flow bed has to be supported centrally with an additional two adjusting clips (marked with \*). The strengthened base plate provides improved load distribution over the floor surface. Precise profile configuration with punched slots, which when used with support clips, allow fine-adjustment of the flow bed in increments of just 6.25 mm.



Profiles P 63 and P 65

## Frames with mono-post P 63 and P 65

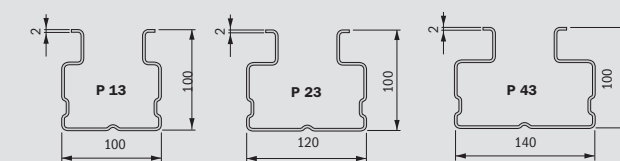
The uprights and mono-posts are made of cold-rolled high-strength steel. Horizontal braces are bolted in position. 50 mm pitch slots. Angle and height adjustment of the flow beds in increments of 6.25 mm. Finish: galvanised.



Profiles P 73, P 93 and P 95

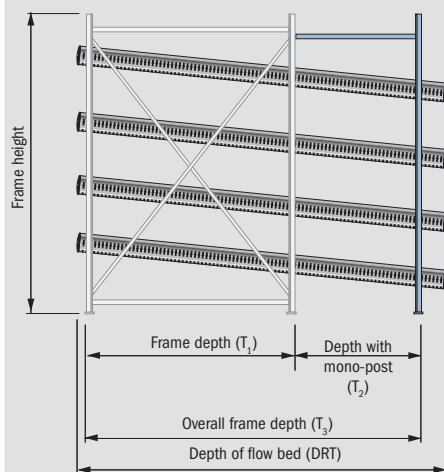
## Frames with mono-post P 73, P 93 and P 95 for higher bay loads

The uprights and mono-posts, which are made of cold-rolled high-strength steel, are specially formed to provide maximum rigidity. Horizontal braces are bolted to the main support frame. 50 mm pitched slots. Angle and height adjustment on the flow beds in increments of 12.5 mm. Finish: galvanised.



On request

# Frames with mono-posts



## Mono-post

The bay loads indicated only apply if fully floor filled. One floor anchor is required for each upright. Concrete grade min. B25. The starter and extension bays require one reinforcing cross beam for the mono-post.

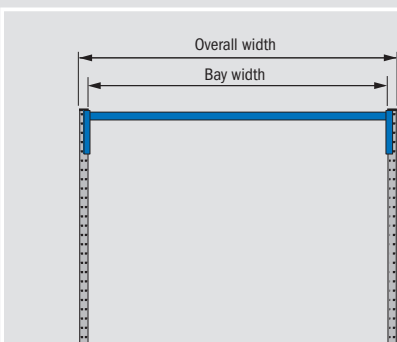
### Example:

Frame depth  $T_3$  = depth of flow bed DRT - 450 mm  
max depth of  $T_2$  is 2,000 mm.

Please indicate dimension  $T_2$  when ordering.

| Item                                | Depth of flow bed DRT mm | Frame depth $T_1$ mm | Depth of hor. brace $T_2$ mm | Frame depth $T_3$ mm | Frame height mm | Bay load max kg | Order no. |
|-------------------------------------|--------------------------|----------------------|------------------------------|----------------------|-----------------|-----------------|-----------|
| <b>Upright profile section P 63</b> |                          |                      |                              |                      |                 |                 |           |
| K-PS-P 63-0400                      | 1,900                    | 1,050                | 400                          | 1,450                | 2,500           | *               | 439700    |
| K-PS-P 63-0600                      | 2,100                    | 1,050                | 600                          | 1,650                | 2,500           | *               | 439710    |
| K-PS-P 63-1000                      | 2,500                    | 1,050                | 1,000                        | 2,050                | 2,500           | *               | 439720    |
| K-PS-P 63-1600                      | 3,100                    | 1,050                | 1,600                        | 2,650                | 2,500           | *               | 439730    |
| <b>Upright profile section P 65</b> |                          |                      |                              |                      |                 |                 |           |
| K-PS-P 65-0400                      | 1,900                    | 1,050                | 400                          | 1,450                | 2,500           | *               | 439740    |
| K-PS-P 65-0600                      | 2,100                    | 1,050                | 600                          | 1,650                | 2,500           | *               | 439750    |
| K-PS-P 65-1000                      | 2,500                    | 1,050                | 1,000                        | 2,050                | 2,500           | *               | 439760    |
| K-PS-P 65-1600                      | 3,100                    | 1,050                | 1,600                        | 2,650                | 2,500           | *               | 439770    |
| <b>Upright profile section P 73</b> |                          |                      |                              |                      |                 |                 |           |
| K-PS-P 73-0400                      | 1,900                    | 1,050                | 400                          | 1,450                | 2,500           | *               | 439780    |
| K-PS-P 73-0600                      | 2,100                    | 1,050                | 600                          | 1,650                | 2,500           | *               | 439790    |
| K-PS-P 73-1000                      | 2,500                    | 1,050                | 1,000                        | 2,050                | 2,500           | *               | 439800    |
| K-PS-P 73-1600                      | 3,100                    | 1,050                | 1,600                        | 2,650                | 2,500           | *               | 439810    |
| <b>Upright profile section P 93</b> |                          |                      |                              |                      |                 |                 |           |
| K-PS-P 93-0400                      | 1,900                    | 1,050                | 400                          | 1,450                | 2,500           | *               | 439820    |
| K-PS-P 93-0600                      | 2,100                    | 1,050                | 600                          | 1,650                | 2,500           | *               | 439830    |
| K-PS-P 93-1000                      | 2,500                    | 1,050                | 1,000                        | 2,050                | 2,500           | *               | 439840    |
| K-PS-P 93-1600                      | 3,100                    | 1,050                | 1,600                        | 2,650                | 2,500           | *               | 439850    |

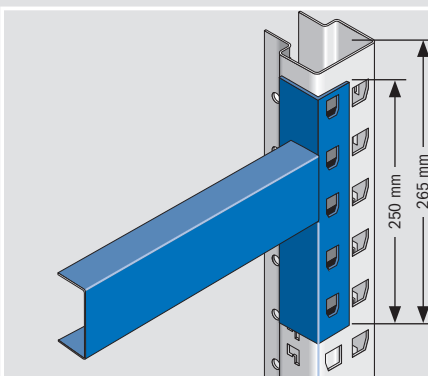
\* Section load according to corresponding frame support



## Reinforcing cross beams

Reinforcing cross beams and the supporting frames form a separate unit, this enabling flow beds to be adjusted individually without emptying the rack. The cross beams serve only to give rigidity to the rack structure and are not designed to accommodate pallets. At least two reinforcing cross beams are required per bay depending on the load.

Finish: blue RAL 5010.



## Reinforcing cross beams "U" profile for P 63, P 65, P 73, P 93 and P 95

| Item      | Bay width mm | Order no. |
|-----------|--------------|-----------|
| K-AT-1350 | 1,350        | 440810    |
| K-AT-1800 | 1,800        | 441260    |
| K-AT-2200 | 2,200        | 441660    |
| K-AT-2700 | 2,700        | 442160    |

Uprights P 63, P 65, P 73, P 93 and P 95

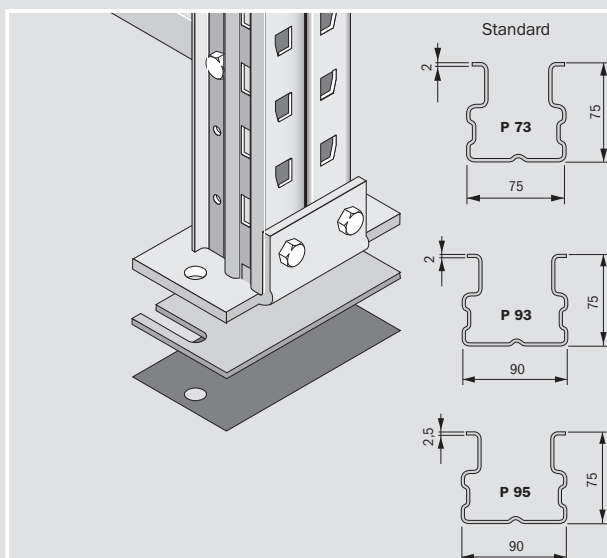
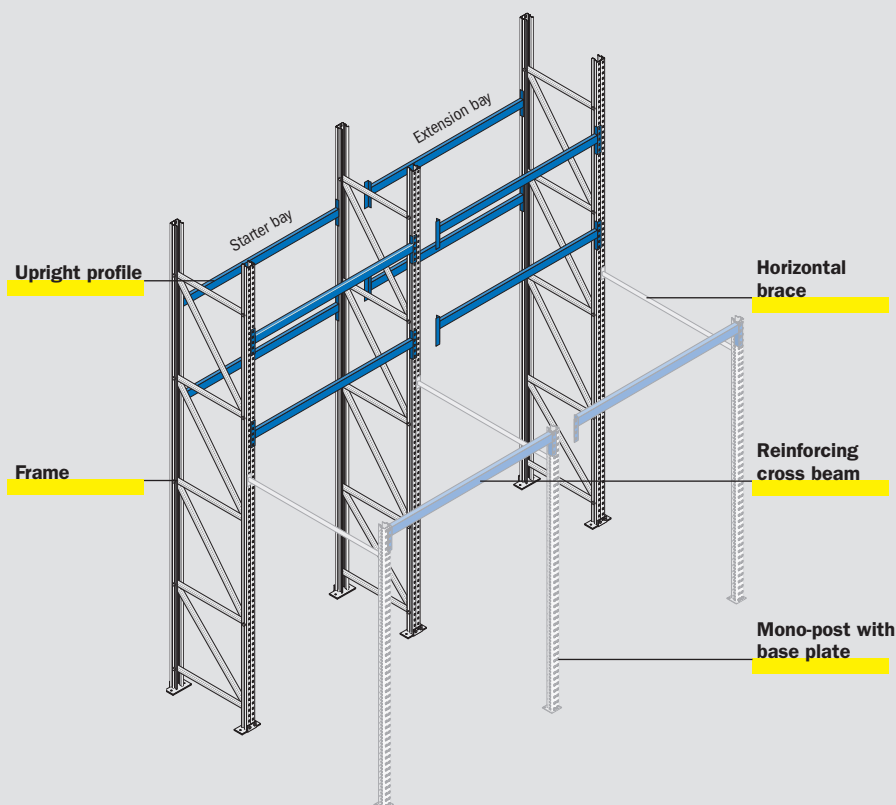


# Frames with palletised buffer stock

## Frames with palletised buffer stock

Pallet racking PR 600 designed for pallet storage purposes, located above flow beds.

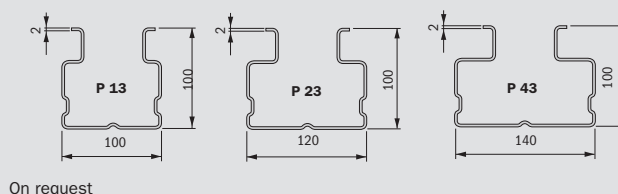
Great depths can be achieved by the joint use of pallet racking, arranged in sequence or with mono-posts. The strengthened base plate provides improved load distribution over the floor surface. Precise profile configuration with punched slots, when used in conjunction with adjusting clips, allow fine-adjustment of the angle and height of the handling surfaces in steps of just 12.5 mm.



## Uprights and mono-posts P 73, P 93 and P 95 for higher bay loads

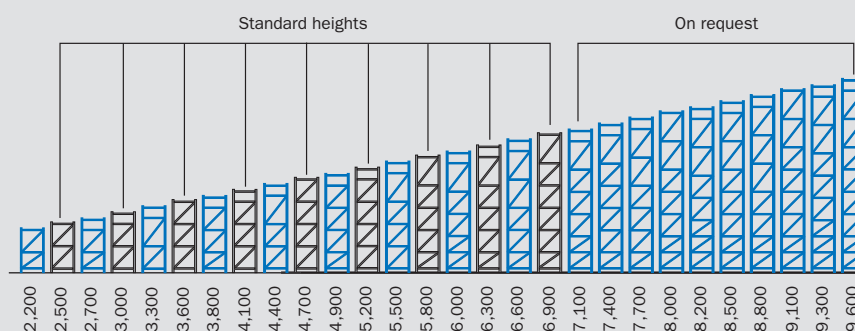
These upright profile sections are formed in a special process that guarantees maximum rigidity. They are bolted to horizontal and diagonal braces to provide a highly stable framework. 50 mm pitch slots. Angle and height adjustment of the flow beds in increments of 12.5 mm.

Finish: galvanised.

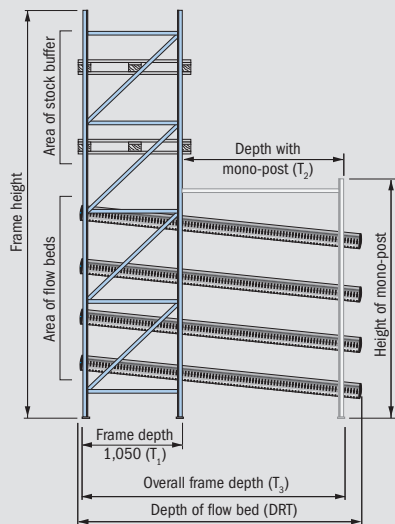


Uprights P 73, P 93 and P 95

## Frame heights



# Frames with palletised buffer stock



## Frame PR 600

The bay loads indicated only apply if fully floor fixed. One floor anchor is required for each upright. Concrete grade min. B25. The starter and extension bays each require one reinforcing cross beam per mono-post.

### Example:

Frame depth  $T_3$  = depth of flow bed DRT-450 mm, depth of horizontal brace max. 2,000 mm. (Mono-posts can be found on pages 12 – 13). **Please indicate dimension  $T_2$  when ordering.**

| Item                                | Frame height<br>mm | Frame depth<br>$T_1$ mm | Order no. |
|-------------------------------------|--------------------|-------------------------|-----------|
| <b>Upright profile section P 73</b> |                    |                         |           |
| RV 730251                           | 2,500              | 1,050                   | 135880    |
| RV 730301                           | 3,000              | 1,050                   | 135890    |
| RV 730361                           | 3,600              | 1,050                   | 135900    |
| RV 730411                           | 4,100              | 1,050                   | 135910    |
| RV 730471                           | 4,700              | 1,050                   | 135920    |

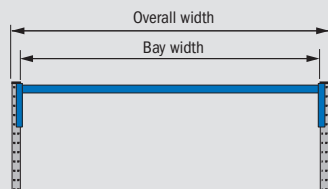
### Upright profile section P 93

|           |       |       |        |
|-----------|-------|-------|--------|
| RV 930251 | 2,500 | 1,050 | 137490 |
| RV 930301 | 3,000 | 1,050 | 137510 |
| RV 930361 | 3,600 | 1,050 | 137530 |
| RV 930411 | 4,100 | 1,050 | 137550 |
| RV 930471 | 4,700 | 1,050 | 137570 |
| RV 930521 | 5,200 | 1,050 | 137590 |
| RV 930581 | 5,800 | 1,050 | 137610 |
| RV 930631 | 6,300 | 1,050 | 137630 |
| RV 930691 | 6,900 | 1,050 | 137650 |

### Example of section loads:

Four flow beds per bay, depth of flow bed 2,500 mm, bay width 2,700 mm, depth of horizontal brace 1,500 mm, overflow storage for euro-pallets of 800 x 1,200 mm.

| Pallet capacity<br>kg | Load range       | Frame P 73 |             | Frame P 93 |             |
|-----------------------|------------------|------------|-------------|------------|-------------|
|                       |                  | Cross beam | Bay load kg | Cross beam | Bay load kg |
| Up to 300             | Area of flow bed | INP 80     | 4,050       | -          | -           |
|                       | 1 pallet level   | INP 80     | 900         | -          | -           |
|                       | 2 pallet level   | INP 80     | 1,800       | -          | -           |
| Up to 600             | Area of flow bed | INP 80     | 3,400       | INP 80     | 5,200       |
|                       | 1 pallet level   | INP 80     | 1,800       | INP 80     | 1,800       |
|                       | 2 pallet level   | INP 80     | 2,400       | INP 100    | 5,400       |
| Up to 1.000           | Area of flow bed | INP 100    | 2,800       | INP 100    | 6,000       |
|                       | 1 pallet level   | INP 100    | 3,000       | INP 100    | 3,000       |
|                       | 2 pallet level   | INP 100    | 3,000       | INP 100    | 6,000       |

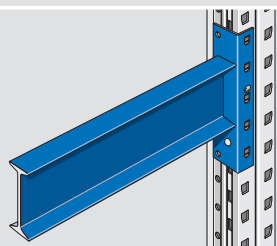


## Reinforcing cross beam

Cross beams with welded-on four-hook connectors guarantee a weight-assisted positive fit with the uprights. Adjustable pitch 50 mm. Four locking pins per pair prevent accidental detachment. The values indicated apply to evenly distributed loads.

**Catalogue numbers are “per pair”.**

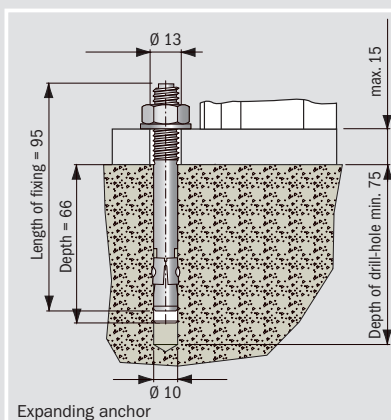
Finish: painted blue (RAL 5010).



## Cross beams INP 80 and INP 100

| Item         | Bay width<br>mm | Profile | Load per pair<br>kg | Order no. |
|--------------|-----------------|---------|---------------------|-----------|
| TRV 180-08 I | 1,800           | INP 80  | 3,000               | 321500    |
| TRV 220-08 I | 2,200           | INP 80  | 2,500               | 321540    |
| TRV 220-10 I | 2,200           | INP 100 | 4,200               | 321700    |
| TRV 270-08 I | 2,700           | INP 80  | 2,000               | 321590    |
| TRV 270-10 I | 2,700           | INP 100 | 3,500               | 321750    |

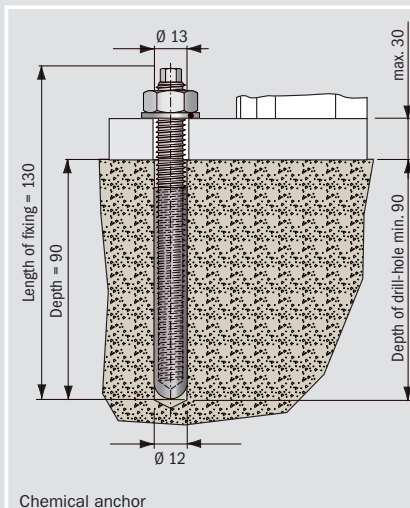
# Floor fixings, shims and insulation plates



## Expanding anchor

The frame must be anchored to the floor in order to guarantee the stability of the system. Normal B25-type concrete floors require M10 expanding anchors. Use one anchor for each base plate.

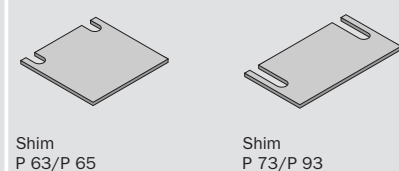
| Item                      | Order no. |
|---------------------------|-----------|
| BA 10 SL Expanding anchor | 67030     |



## Chemical anchor

In case of magnesite flooring, the frame must be anchored to the floor in order to guarantee the stability of the system. Use one anchor for each base plate.

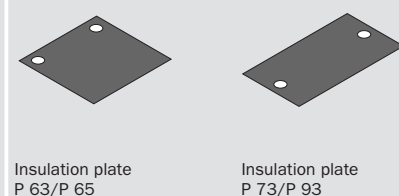
| Item                         | Order no. |
|------------------------------|-----------|
| BA 10 VA Chemical anchor M10 | 67390     |



## Shims

For all upright profile sections. Provides compensation for uneven floor surfaces. Finish: galvanised.

| Item     | Upright mm    | Thickness mm | Order no. |
|----------|---------------|--------------|-----------|
| AP 60.51 | P 63 and P 65 | 1            | 143500    |
| AP 60.52 | P 63 and P 65 | 2            | 143501    |
| AP 60.91 | P 73 and P 93 | 1            | 155000    |
| AP 60.92 | P 73 and P 93 | 2            | 155010    |



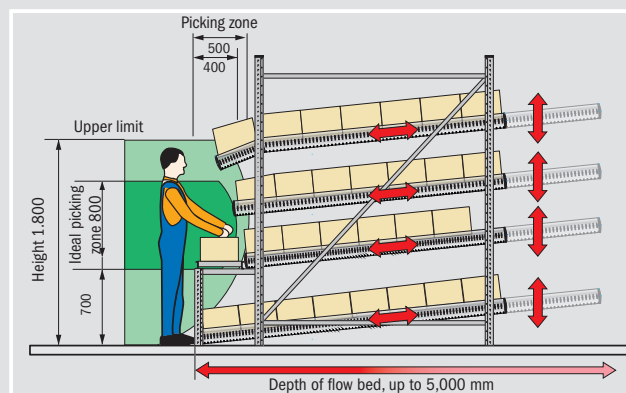
## Insulation plates

Each upright should be fitted with a plastic insulating plate in order to prevent corrosion if the system is installed in magnesite floor surface.

| Item     | Upright mm    | Thickness mm | Order no. |
|----------|---------------|--------------|-----------|
| IP 60.51 | P 63 and P 65 | 1            | 155220    |
| IP 60.59 | P 73 and P 93 | 1            | 155020    |

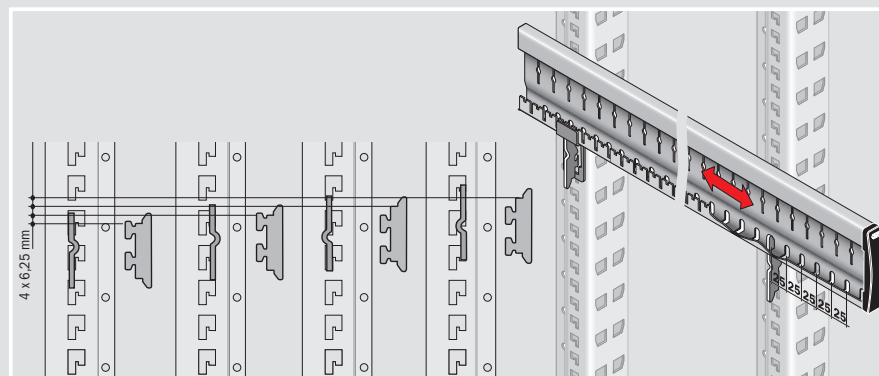


# Material handling flow beds and ergonomics



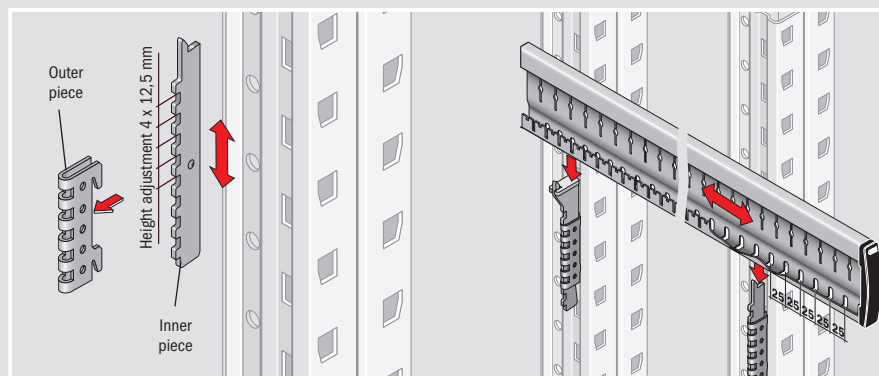
Thanks to the adjusting slots in the side-section of each flow bed, it can be adjusted horizontally – without the use of tools – in order to provide an optimal picking curve from an ergonomic viewpoint.

With the use of strong side-profiles and additional internal cross supports it is possible to supply depths of up to 5,000 mm.



## Upright profile section P 63/P 65

Height adjustment – in increments of just 6.25 mm – is carried out by using insert clip K-VH1 to a slot in the upright and then turning through 180 degrees. This vertical fine adjustment – without the use of nuts or bolts – allows the incline to be set to an optimum angle at any time. Adjusting slots (of 25 mm) along the entire length of the side-profile permit ergonomic configuration of the flow bed, without any depth restrictions.



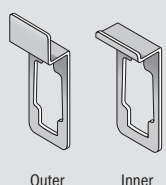
## Upright profile sec. P 73/P 93/P 95

Height adjustment in increments of just 12.5 mm – is carried out by repositioning the outer and inner clips. This vertical line adjustment, without the use of bolts allows the incline to be set to an optimum angle at anytime. Adjusting slots (of 25 mm) along the entire length of the side-profile permit ergonomic configuration of the flow bed.



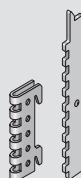
## Adjusting clip for upright profile section P 63/P 65

The height of the flow bed can be adjusted – in increments of 6.25 mm – by attaching the adjusting clip to the punched slot on either the right or left hand side, and by rotating.



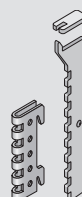
## Slotted support (outer and inner) for upright profile section P 63/P 65

Positioned over the adjusting clip to allow easy front to back adjustment of the flow bed in order to obtain the most ergonomically favourable position.



## Adjusting clip (front) for upright profile P 73/P 93/P 95

For supporting the flow bed in the front uprights (PR 600 system).  
Adjusting increments: 12.5 mm.

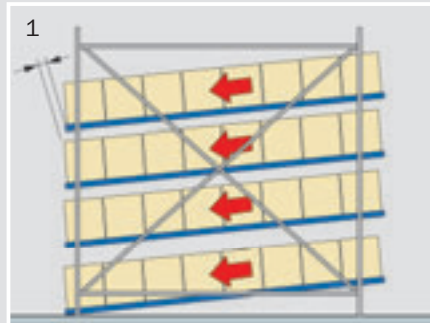


## Adjusting clip (rear and inner) with spacer

The purpose of the spacer is to reduce the adjusting increments from 12.5 mm to 6.25 mm. It is slotted into the clip in order to provide additional central support.

# Shelving fronts and order-picking types

## Shelving fronts and order-picking equipment



- Order-picking of entire storage units
- Order-picking of smaller items with the help of the open front on storage containers and cartons

### Advantage:

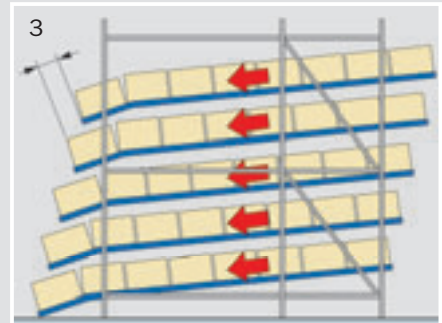
- Makes full use of the shelving height



- Order-picking of medium-sized items from above from storage containers and cartons

### Advantages:

- Unrestricted view and rapid access to storage containers and cartons
- Improved ergonomics



- Order-picking of large items by removing from storage containers and cartons from above

### Advantages:

- Optimum view and rapid access to storage containers and cartons
- Convenient picking, even for bulky items

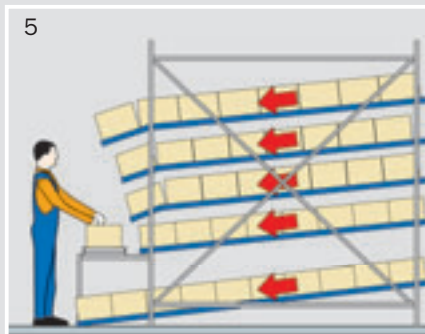
## Shelving fronts and conveyor systems



The central arrangement of the conveyor system is typical for item-based order-picking using the "pick-to-belt" method. For order-based picking, the driven conveyor is generally supplemented by two static roller tracks.

### Advantages:

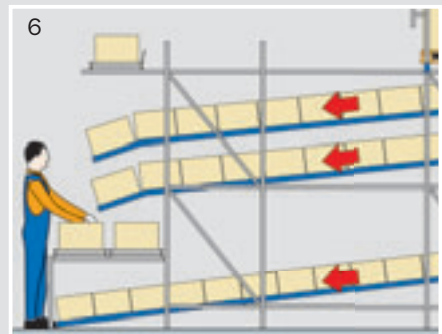
- High productivity due to shorter transport routes
- Full use of the shelf front for product provision
- Limited investment required for conveyor system



It is advisable to integrate roller tracks into the shelving front for order-based picking where each order is put together by a picker.

### Advantages:

- High productivity due to shorter transport routes
- Full use of the shelf front for product provision
- Low investment required for conveyor system
- Increased order-picking capacity, as pickers no longer have to turn around to reach the conveyor



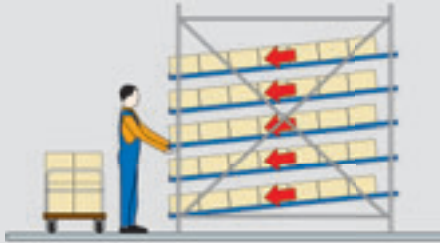
A combination of driven/static tracks is recommended for order-based picking in multiple areas. This solution requires higher organisational and control system expenditure. Waste disposal conveyor for empty containers on top of the shelving front.

### Advantages:

- Very high picker productivity due to short routes and rapid disposal of empty containers
- Very short order processing times
- No time lost due to turning around to deposit goods

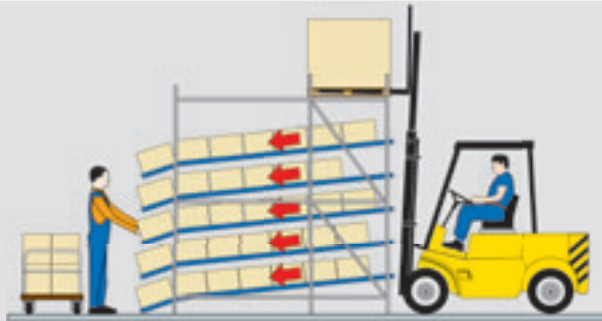
# Solutions for order-picking systems with live storage

7



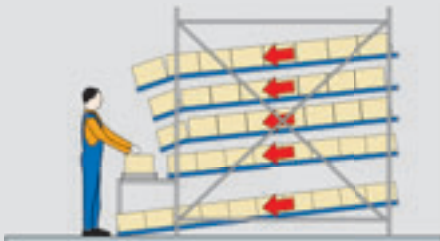
- Flat flow beds for the order-picking of complete boxes/cartons
- Also ideal for order-picking from fixed storage boxes with viewing and access openings

8



- Angled flow beds for partial pallet order-picking
- Additional stock on the pallets on the replenishing side

9



- Partial pallet order-picking “from above” from boxes/cartons
- Straight and angled flow beds for the order-picking of complete boxes/cartons
- Rapid access
- Further transport of dispatch units on the upstream roller track

10



- Separate service aisles prevent the replenisher from interrupting the order-picker
- Additional stock on the pallets on the replenishing side

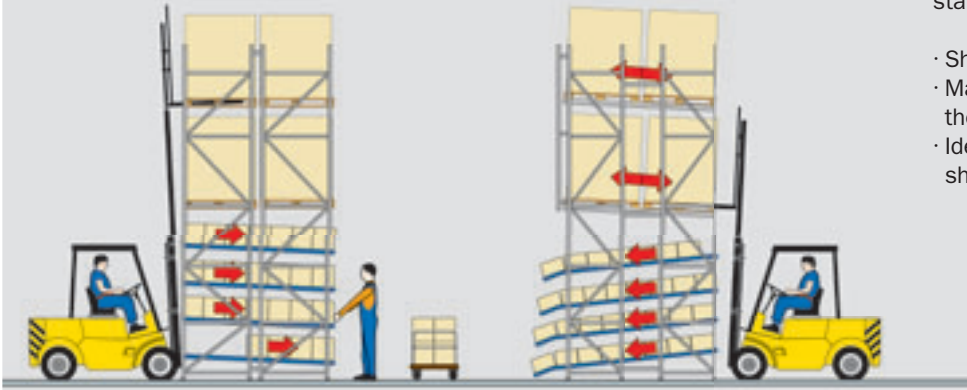


# Solutions for order-picking systems with live storage

11

System with pallet buffer storage – static or dynamic:

- Short replenishment routes
- Maximum use of the space above the order-picking area
- Ideal for retrofitting existing pallet shelving systems



12

- High operational safety
- Separate service aisles prevent the replenisher from interrupting the order-picker
- Guarantees the availability of items for the order-picker
- Maximum use of storage areas



13

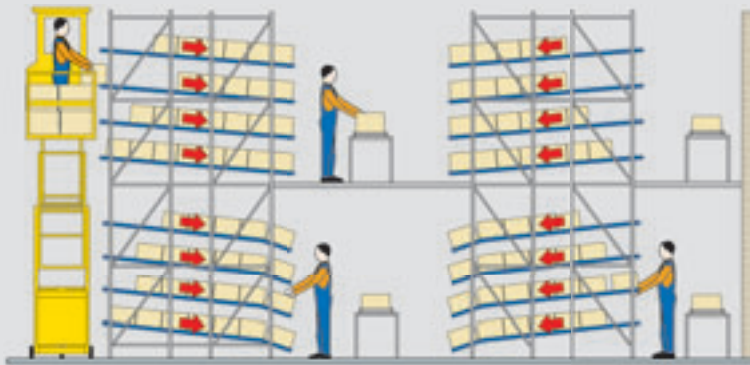
Multi-tiered KDR system with integrated pallet racking as buffer storage and central conveyors:

- Separate service aisles prevent the replenisher from interrupting the order-picker
- Guarantees the availability of items for the order-picker
- Maximum use of available height
- Short refill routes from the pallet buffer



# Solutions for order-picking systems with live storage

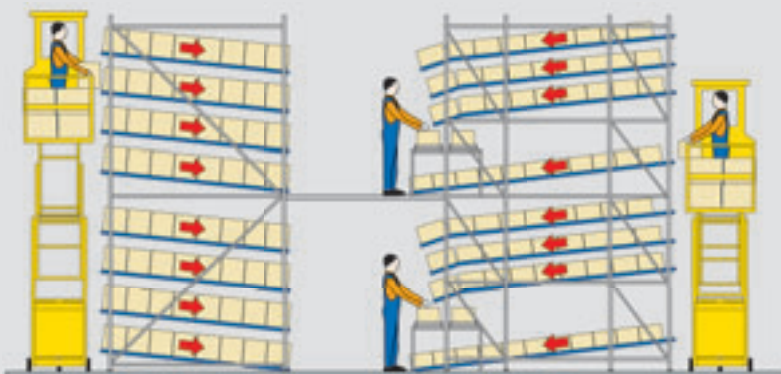
14



Multi-tiered systems with integrated pallet racking as buffer storage and central conveyors; refilling using an order-picker truck or alternatively conveyors:

- Excellent use of space and maximum use of the hall height
- Separate service aisles prevent interruptions for the order-picker
- Refilling directly from the buffer storage without interim storage

15



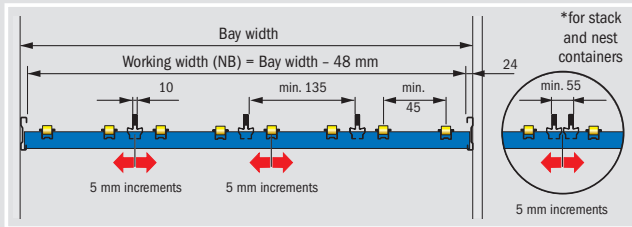
- Maximum use of the available hall height
- Separate replenishment and picking aisles
- High availability of the items to be picked

16



- Excellent use of space and maximum use of available height
- Separate aisles prevent interruptions for the order-picker
- DV-regulated availability of the items to be picked
- DV-controlled direct refilling from the buffer storage

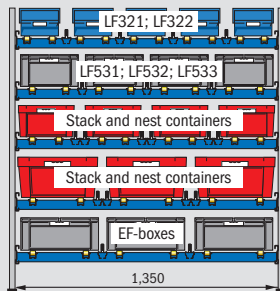
# Sample configurations



These schematic illustrations show various ways of loading SSI SCHAEFER containers **with the use of guide rails**, configured with the standard bay widths of 1,350 mm, 1,800 mm, 2,200 mm and 2,700 mm. Height adjustment of the flow bed in steps of 6.25 mm offers the great advantage of fine adjustment to the individual handling height of each container.

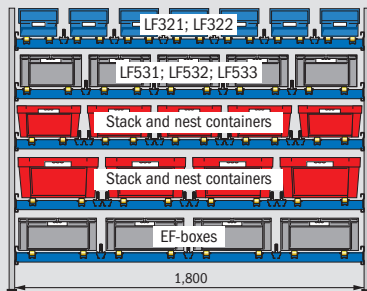
## Bay width 1,350 mm

| Container type             | Number of lanes | Actual lane width mm | Number Roller track | Number Guide rails |
|----------------------------|-----------------|----------------------|---------------------|--------------------|
| LF 321; LF 322             | 5               | 210                  | 10                  | 4                  |
| LF 531; LF 532; EF-boxes   | 4               | 315                  | 8                   | 3                  |
| *Stack and nest containers | 4               | 315                  | 8                   | 6                  |
| *Stack and nest containers | 3               | 425                  | 6                   | 4                  |
| EF-boxes                   | 3               | 425                  | 6                   | 2                  |



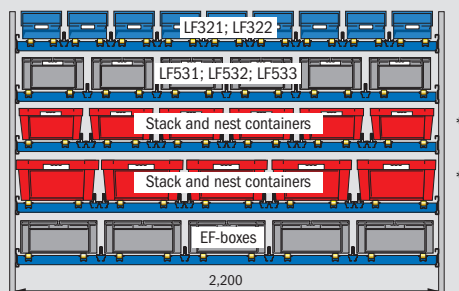
## Bay width 1,800 mm

| Container type             | Number of lanes | Actual lane width mm | Number Roller track | Number Guide rails |
|----------------------------|-----------------|----------------------|---------------------|--------------------|
| LF 321; LF 322             | 7               | 210                  | 14                  | 6                  |
| LF 531; LF 532; EF-boxes   | 5               | 315                  | 10                  | 4                  |
| *Stack and nest containers | 5               | 315                  | 10                  | 8                  |
| *Stack and nest containers | 4               | 425                  | 8                   | 6                  |
| EF-boxes                   | 4               | 425                  | 8                   | 3                  |



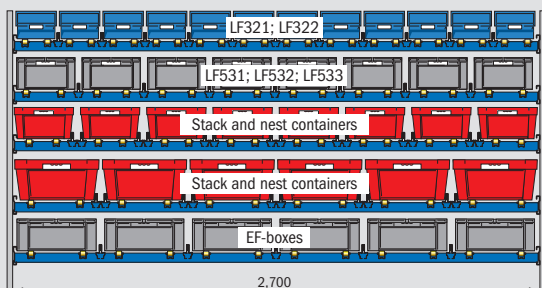
## Bay width 2,200 mm

| Container type             | Number of lanes | Actual lane width mm | Number Roller track | Number Guide rails |
|----------------------------|-----------------|----------------------|---------------------|--------------------|
| LF 321; LF 322             | 9               | 210                  | 18                  | 8                  |
| LF 531; LF 532; EF-boxes   | 6               | 315                  | 12                  | 5                  |
| *Stack and nest containers | 6               | 315                  | 12                  | 10                 |
| *Stack and nest containers | 5               | 425                  | 10                  | 8                  |
| EF-boxes                   | 5               | 425                  | 10                  | 4                  |



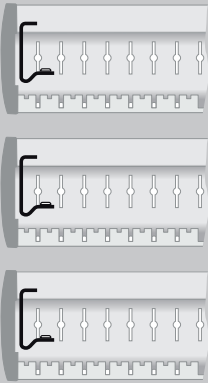
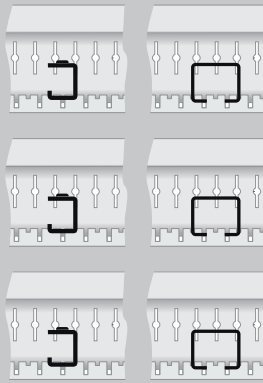
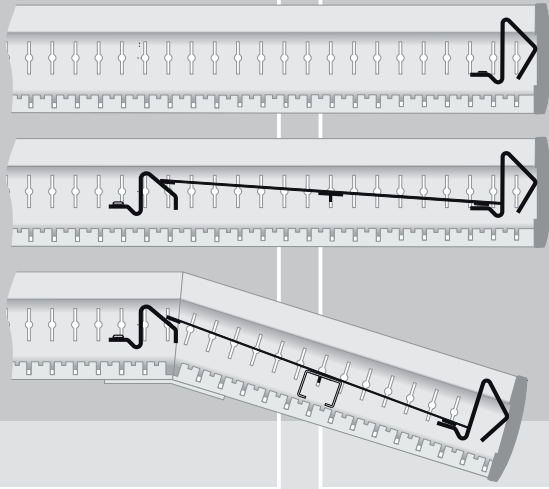
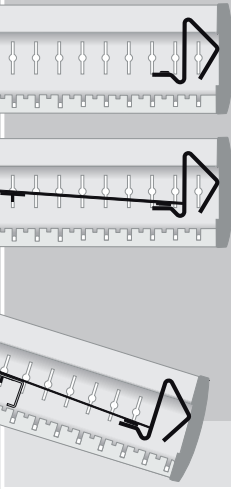
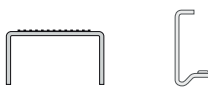
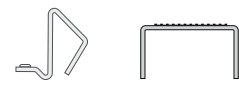
## Bay width 2,700 mm

| Container type             | Number of lanes | Actual lane width mm | Number Roller track | Number Guide rails |
|----------------------------|-----------------|----------------------|---------------------|--------------------|
| LF 321; LF 322             | 12              | 210                  | 24                  | 11                 |
| LF 531; LF 532; EF-boxes   | 8               | 315                  | 16                  | 7                  |
| *Stack and nest containers | 8               | 315                  | 16                  | 14                 |
| *Stack and nest containers | 6               | 425                  | 12                  | 10                 |
| EF-boxes                   | 6               | 425                  | 12                  | 5                  |

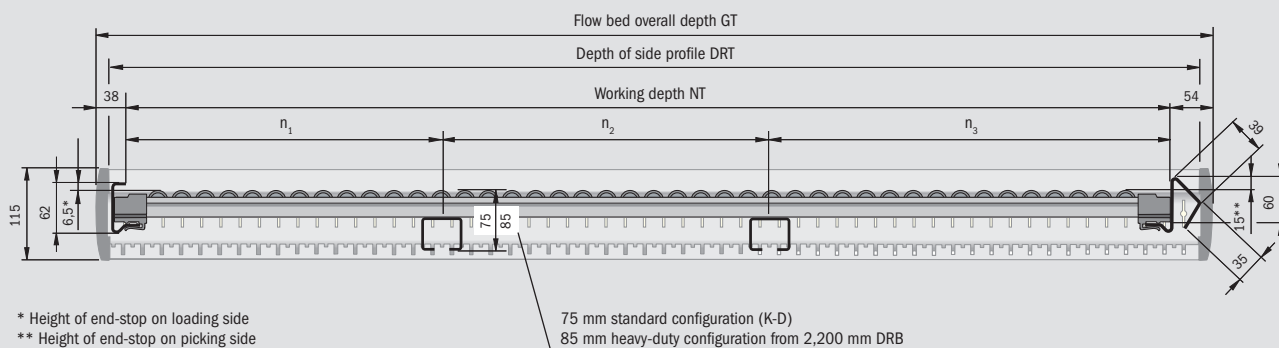
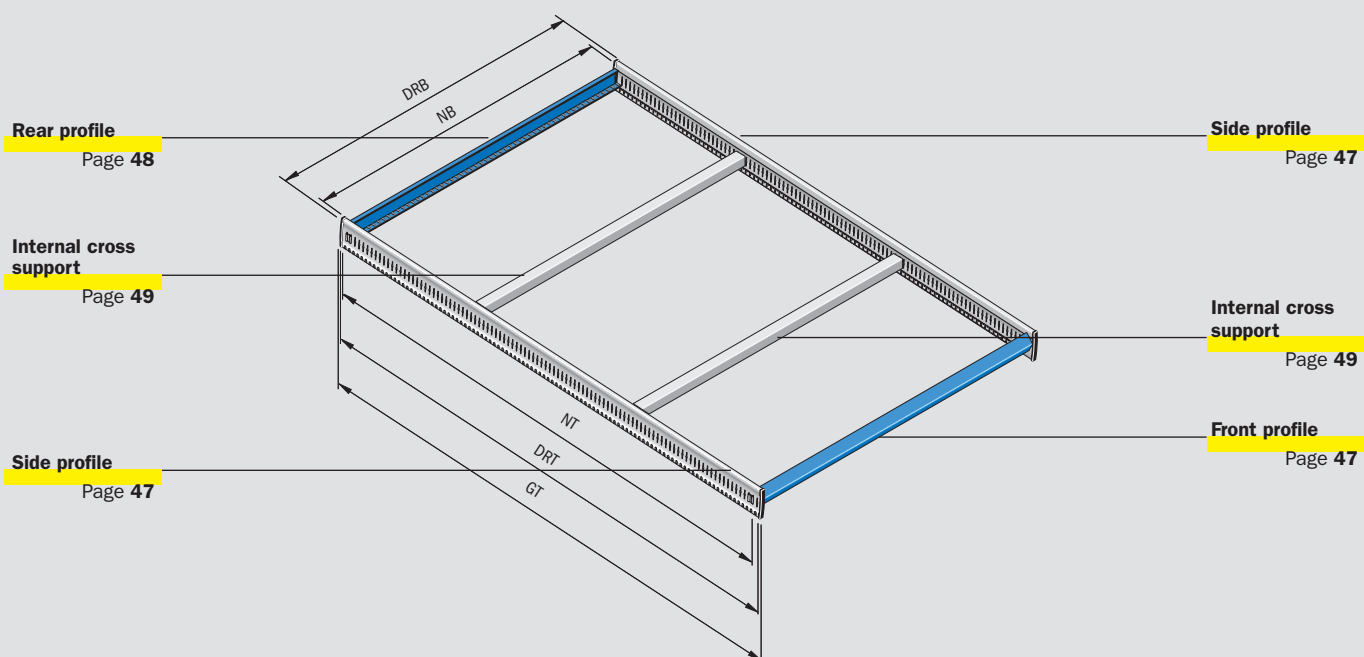




# Combinations of flow bed arrangements

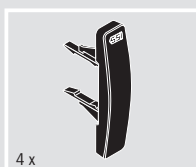
| Rear profile                                                                                                                                                                                                                                                                                   | Central/inner support                                                                                                                                                                                                                                                                                                                                                                                         | Chute profile                                                                                                                                                                                                                        | Front profile                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |                                                                                                                                                                                                               |
|  <p>► <b>Rear profile K-QH</b><br/>With wide lower edge for track support</p>                                                                                                                                |  <p>► <b>Central cross support K-QM</b><br/>In the case of flow beds of over 3,100 mm in length, this profile section – used in conjunction with fixing clips – can provide extra stability for the roller track and guides; can also be used to support the discharge plate in the case of high loads and great depths</p> |  <p>► <b>Chute profile K-QK</b><br/>For use on outlet chute; for attaching track and guides to outlet chutes</p>                                   |  <p>► <b>Front cross connector K-QV</b><br/>With end-stop</p>                                                                                                                                                |
|  <p>► <b>Rear profile K-QH-KLT</b><br/>With lengthened upper edge; this ensures that the KLT container on the track does not become jammed</p>                                                              |                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                  |
|  <p>► <b>Angled profile K-QK</b><br/>For use with automatic loading e.g. with RBG; no locking device</p>                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                  |
|  <p>► <b>Front profile K-QV</b><br/>This profile with end-stop edge can also be attached at the rear</p>                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                               |  <p>► <b>Profile reinforcer K-QKV</b><br/>This profile section can be used to provide extra reinforcement for wider, heavily loaded flow beds</p> |  <p>► <b>Front profile for pick-by-light K-QV-PBL</b><br/>For attachment of a pick-by-light indicator; this profile can be supplied in three angled settings</p>                                            |
|                                                                                                                                                                                                                                                                                                |  <p>► <b>Internal cross support K-QI</b><br/>Support for roller tracks; the load capacity of the flow bed is determined by the number of cross supports</p>                                                                                                                                                                |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                  |
|  <p>► <b>Cross profile step K-QT</b><br/>Built in step on loading side; the side profile must be extended correspondingly to suit; for added safety, the bed side profile must be bolted to the upright</p> |                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |  <p>► <b>Cross profile step K-QT</b><br/>Built in step on picking side; the side profile must be extended correspondingly to suit; for added safety, the bed side profile must be bolted to the upright</p> |

# Flat flow beds K-D and K-SD

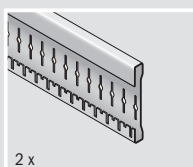


## Standard flat flow bed

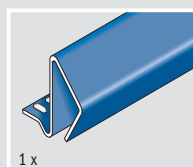
Flow bed consisting of:



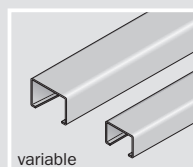
End cap



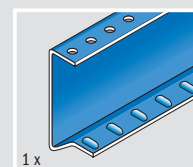
Side profile, straight



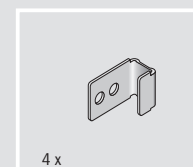
Front cross profile



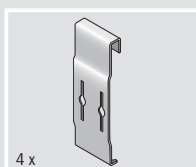
Internal cross support



Rear profile



Side profile link clip



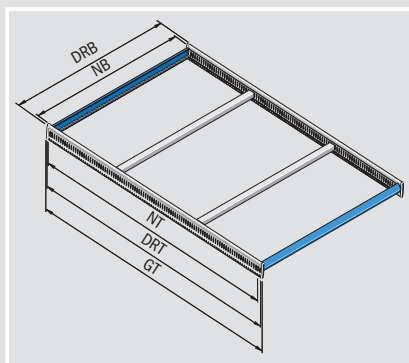
Side profile link plate



### NOTE:

K-VS1 fixing kit is required for assembling the flow bed.  
The following items should also be ordered for the purpose of securing the flow beds:  
adjusting clip, anti-tip clip, outer slotted support, inner slotted support if required.

# Flat flow beds



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

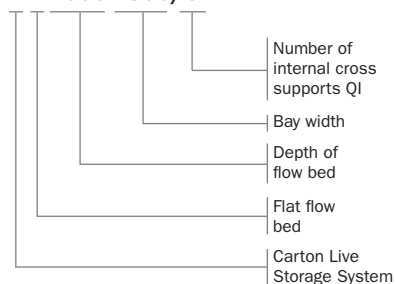
## Complete flat flow bed K-D

| Item            | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|-----------------|----------------------------|--------------|----------|-----------|
| K-D-1300-1350/0 | 1,300                      | 1,350        | 180      | 453000    |
| K-D-1300-1350/1 | 1,300                      | 1,350        | 480      | 453010    |
| K-D-1300-1800/1 | 1,300                      | 1,800        | 160      | 453020    |
| K-D-1300-1800/2 | 1,300                      | 1,800        | 320      | 453030    |
| K-D-1300-1800/3 | 1,300                      | 1,800        | 490      | 453040    |
| K-D-1300-2200/0 | 1,300                      | 2,200        | 100      | 453050    |
| K-D-1300-2200/1 | 1,300                      | 2,200        | 210      | 453060    |
| K-D-1300-2200/2 | 1,300                      | 2,200        | 320      | 453070    |
| K-D-1300-2200/3 | 1,300                      | 2,200        | 430      | 453080    |
| K-D-1300-2200/5 | 1,300                      | 2,200        | 530      | 453090    |
| K-D-1300-2700/1 | 1,300                      | 2,700        | 130      | 453100    |
| K-D-1300-2700/3 | 1,300                      | 2,700        | 270      | 453110    |
| K-D-1300-2700/5 | 1,300                      | 2,700        | 410      | 453120    |
| K-D-1700-1350/0 | 1,700                      | 1,350        | 100      | 453130    |
| K-D-1700-1350/1 | 1,700                      | 1,350        | 270      | 453140    |
| K-D-1700-1800/0 | 1,700                      | 1,800        | 130      | 453150    |
| K-D-1700-1800/1 | 1,700                      | 1,800        | 320      | 453160    |
| K-D-1700-1800/2 | 1,700                      | 1,800        | 490      | 453170    |
| K-D-1700-2200/0 | 1,700                      | 2,200        | 100      | 453180    |
| K-D-1700-2200/1 | 1,700                      | 2,200        | 210      | 453190    |
| K-D-1700-2200/2 | 1,700                      | 2,200        | 320      | 453200    |
| K-D-1700-2200/3 | 1,700                      | 2,200        | 430      | 453210    |
| K-D-1700-2200/4 | 1,700                      | 2,200        | 530      | 453220    |
| K-D-1700-2200/5 | 1,700                      | 2,200        | 640      | 453230    |
| K-D-1700-2700/1 | 1,700                      | 2,700        | 130      | 453240    |
| K-D-1700-2700/3 | 1,700                      | 2,700        | 270      | 453250    |
| K-D-1700-2700/5 | 1,700                      | 2,700        | 410      | 453260    |
| K-D-1700-2700/7 | 1,700                      | 2,700        | 540      | 453260    |
| K-D-1900-1350/1 | 1,900                      | 1,350        | 330      | 453280    |
| K-D-1900-1350/2 | 1,900                      | 1,350        | 500      | 453290    |
| K-D-1900-1800/0 | 1,900                      | 1,800        | 100      | 453300    |
| K-D-1900-1800/1 | 1,900                      | 1,800        | 320      | 453310    |
| K-D-1900-1800/2 | 1,900                      | 1,800        | 490      | 453320    |
| K-D-1900-1800/3 | 1,900                      | 1,800        | 650      | 453330    |
| K-D-1900-2200/0 | 1,900                      | 2,200        | 100      | 453340    |
| K-D-1900-2200/1 | 1,900                      | 2,200        | 210      | 453350    |
| K-D-1900-2200/2 | 1,900                      | 2,200        | 320      | 453360    |
| K-D-1900-2200/3 | 1,900                      | 2,200        | 430      | 453370    |
| K-D-1900-2200/4 | 1,900                      | 2,200        | 530      | 453380    |
| K-D-1900-2200/5 | 1,900                      | 2,200        | 640      | 453390    |
| K-D-1900-2200/6 | 1,900                      | 2,200        | 750      | 453400    |
| K-D-1900-2700/1 | 1,900                      | 2,700        | 130      | 453410    |
| K-D-1900-2700/3 | 1,900                      | 2,700        | 270      | 453420    |
| K-D-1900-2700/5 | 1,900                      | 2,700        | 410      | 453430    |
| K-D-1900-2700/7 | 1,900                      | 2,700        | 540      | 453440    |
| K-D-1900-2700/8 | 1,900                      | 2,700        | 610      | 453450    |
| K-D-2100-1350/1 | 2,100                      | 1,350        | 290      | 453460    |
| K-D-2100-1350/2 | 2,100                      | 1,350        | 450      | 453470    |
| K-D-2100-1350/3 | 2,100                      | 1,350        | 600      | 453480    |
| K-D-2100-1800/1 | 2,100                      | 1,800        | 320      | 453490    |
| K-D-2100-1800/2 | 2,100                      | 1,800        | 490      | 453500    |
| K-D-2100-1800/3 | 2,100                      | 1,800        | 650      | 453510    |
| K-D-2100-2200/1 | 2,100                      | 2,200        | 210      | 453520    |
| K-D-2100-2200/2 | 2,100                      | 2,200        | 320      | 453530    |
| K-D-2100-2200/3 | 2,100                      | 2,200        | 430      | 453540    |
| K-D-2100-2200/4 | 2,100                      | 2,200        | 530      | 453550    |
| K-D-2100-2200/5 | 2,100                      | 2,200        | 640      | 453560    |
| K-D-2100-2200/6 | 2,100                      | 2,200        | 750      | 453570    |
| K-D-2100-2700/1 | 2,100                      | 2,700        | 130      | 453580    |
| K-D-2100-2700/3 | 2,100                      | 2,700        | 270      | 453590    |
| K-D-2100-2700/5 | 2,100                      | 2,700        | 410      | 453600    |
| K-D-2100-2700/7 | 2,100                      | 2,700        | 540      | 453610    |
| K-D-2100-2700/9 | 2,100                      | 2,700        | 680      | 453620    |

Other frame depths available on request

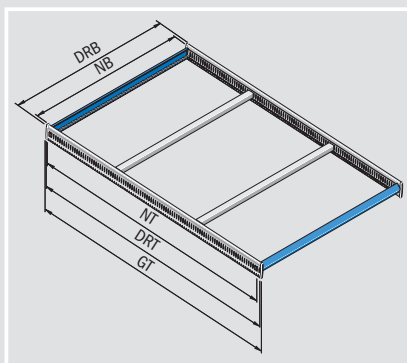
### Key to order no.:

#### K-D-2500-1800/3





## Flat flow beds



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

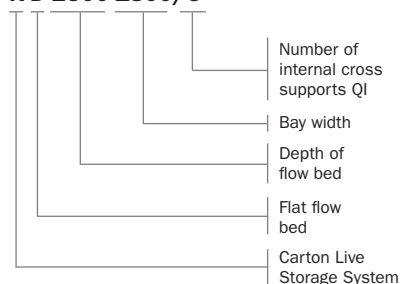
## Complete flat flow bed K-D

| Item             | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|------------------|----------------------------|--------------|----------|-----------|
| K-D-2500-1350/1  | 2,500                      | 1,350        | 240      | 455000    |
| K-D-2500-1350/2  | 2,500                      | 1,350        | 370      | 455010    |
| K-D-2500-1350/3  | 2,500                      | 1,350        | 500      | 455020    |
| K-D-2500-1350/4  | 2,500                      | 1,350        | 630      | 455030    |
| K-D-2500-1800/1  | 2,500                      | 1,800        | 320      | 455040    |
| K-D-2500-1800/2  | 2,500                      | 1,800        | 490      | 455050    |
| K-D-2500-1800/3  | 2,500                      | 1,800        | 650      | 455060    |
| K-D-2500-1800/4  | 2,500                      | 1,800        | 810      | 455070    |
| K-D-2500-2200/1  | 2,500                      | 2,200        | 210      | 455080    |
| K-D-2500-2200/2  | 2,500                      | 2,200        | 320      | 455090    |
| K-D-2500-2200/3  | 2,500                      | 2,200        | 430      | 455100    |
| K-D-2500-2200/4  | 2,500                      | 2,200        | 530      | 455110    |
| K-D-2500-2200/5  | 2,500                      | 2,200        | 640      | 455120    |
| K-D-2500-2200/6  | 2,500                      | 2,200        | 750      | 455130    |
| K-D-2500-2200/7  | 2,500                      | 2,200        | 860      | 455140    |
| K-D-2500-2700/3  | 2,500                      | 2,700        | 270      | 455150    |
| K-D-2500-2700/5  | 2,500                      | 2,700        | 410      | 455160    |
| K-D-2500-2700/7  | 2,500                      | 2,700        | 540      | 455170    |
| K-D-2500-2700/9  | 2,500                      | 2,700        | 680      | 455180    |
| K-D-2500-2700/11 | 2,500                      | 2,700        | 820      | 455190    |
| K-D-3100-1350/1  | 3,100                      | 1,350        | 180      | 455200    |
| K-D-3100-1350/2  | 3,100                      | 1,350        | 300      | 455210    |
| K-D-3100-1350/3  | 3,100                      | 1,350        | 400      | 455220    |
| K-D-3100-1350/4  | 3,100                      | 1,350        | 510      | 455230    |
| K-D-3100-1350/5  | 3,100                      | 1,350        | 610      | 455240    |
| K-D-3100-1350/6  | 3,100                      | 1,350        | 720      | 455250    |
| K-D-3100-1800/1  | 3,100                      | 1,800        | 160      | 455260    |
| K-D-3100-1800/2  | 3,100                      | 1,800        | 400      | 455270    |
| K-D-3100-1800/3  | 3,100                      | 1,800        | 540      | 455280    |
| K-D-3100-1800/4  | 3,100                      | 1,800        | 680      | 455290    |
| K-D-3100-1800/5  | 3,100                      | 1,800        | 820      | 455300    |
| K-D-3100-1800/6  | 3,100                      | 1,800        | 960      | 455310    |
| K-D-3100-2200/2  | 3,100                      | 2,200        | 320      | 455320    |
| K-D-3100-2200/3  | 3,100                      | 2,200        | 430      | 455330    |
| K-D-3100-2200/4  | 3,100                      | 2,200        | 530      | 455340    |
| K-D-3100-2200/5  | 3,100                      | 2,200        | 640      | 455350    |
| K-D-3100-2200/6  | 3,100                      | 2,200        | 750      | 455360    |
| K-D-3100-2200/7  | 3,100                      | 2,200        | 860      | 455370    |
| K-D-3100-2200/8  | 3,100                      | 2,200        | 960      | 455380    |
| K-D-3100-2200/9  | 3,100                      | 2,200        | 1,070 *  | 455390    |
| K-D-3100-2700/2  | 3,100                      | 2,700        | 200      | 455400    |
| K-D-3100-2700/4  | 3,100                      | 2,700        | 340      | 455410    |
| K-D-3100-2700/6  | 3,100                      | 2,700        | 480      | 455420    |
| K-D-3100-2700/8  | 3,100                      | 2,700        | 610      | 455430    |
| K-D-3100-2700/10 | 3,100                      | 2,700        | 750      | 455440    |
| K-D-3100-2700/12 | 3,100                      | 2,700        | 890      | 455450    |
| K-D-3100-2700/14 | 3,100                      | 2,700        | 1,020 *  | 455460    |

Other frame depths available on request

## Key to order no.:

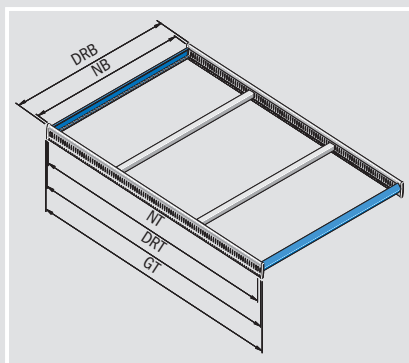
## K-D-2500-1800/3



## NOTE:

The flow beds marked \* must also be supported on the inside by means of an additional adjusting clip (pages 16 and 50).

# Flat flow bed, heavy-duty configuration K-SD



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

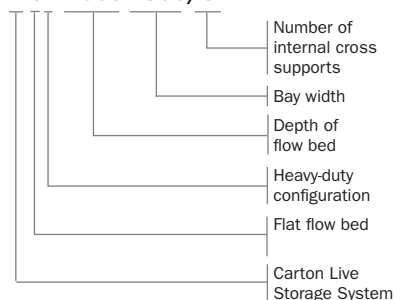
## Complete flat flow bed, heavy-duty configuration K-SD

| Item             | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|------------------|----------------------------|--------------|----------|-----------|
| K-SD-1300-2200/1 | 1,300                      | 2,200        | 490      | 456370    |
| K-SD-1300-2700/1 | 1,300                      | 2,700        | 310      | 456380    |
| K-SD-1300-2700/2 | 1,300                      | 2,700        | 470      | 456390    |
| K-SD-1300-2700/3 | 1,300                      | 2,700        | 590      | 456400    |
| K-SD-1700-2200/1 | 1,700                      | 2,200        | 490      | 456410    |
| K-SD-1700-2200/2 | 1,700                      | 2,200        | 730      | 456420    |
| K-SD-1700-2700/1 | 1,700                      | 2,700        | 310      | 456430    |
| K-SD-1700-2700/2 | 1,700                      | 2,700        | 470      | 456440    |
| K-SD-1700-2700/3 | 1,700                      | 2,700        | 630      | 456450    |
| K-SD-1700-2700/4 | 1,700                      | 2,700        | 790      | 456460    |
| K-SD-1900-2200/1 | 1,900                      | 2,200        | 490      | 456470    |
| K-SD-1900-2200/2 | 1,900                      | 2,200        | 730      | 456480    |
| K-SD-1900-2700/1 | 1,900                      | 2,700        | 310      | 456490    |
| K-SD-1900-2700/2 | 1,900                      | 2,700        | 470      | 456500    |
| K-SD-1900-2700/3 | 1,900                      | 2,700        | 630      | 456510    |
| K-SD-1900-2700/4 | 1,900                      | 2,700        | 790      | 456520    |
| K-SD-2100-2200/1 | 2,100                      | 2,200        | 490      | 456530    |
| K-SD-2100-2200/2 | 2,100                      | 2,200        | 730      | 456540    |
| K-SD-2100-2700/1 | 2,100                      | 2,700        | 310      | 456550    |
| K-SD-2100-2700/2 | 2,100                      | 2,700        | 470      | 456560    |
| K-SD-2100-2700/3 | 2,100                      | 2,700        | 630      | 456570    |
| K-SD-2100-2700/4 | 2,100                      | 2,700        | 790      | 456580    |
| K-SD-2500-2200/1 | 2,500                      | 2,200        | 410      | 456590    |
| K-SD-2500-2200/2 | 2,500                      | 2,200        | 630      | 456600    |
| K-SD-2500-2200/3 | 2,500                      | 2,200        | 840      | 456610    |
| K-SD-2500-2200/4 | 2,500                      | 2,200        | 1,060    | 456620    |
| K-SD-2500-2700/1 | 2,500                      | 2,700        | 310      | 456630    |
| K-SD-2500-2700/2 | 2,500                      | 2,700        | 470      | 456640    |
| K-SD-2500-2700/3 | 2,500                      | 2,700        | 630      | 456650    |
| K-SD-2500-2700/4 | 2,500                      | 2,700        | 790      | 456660    |
| K-SD-2500-2700/5 | 2,500                      | 2,700        | 950      | 456670    |
| K-SD-2500-2700/6 | 2,500                      | 2,700        | 1,110    | 456680    |
| K-SD-3100-2200/1 | 3,100                      | 2,200        | 240      | 456690    |
| K-SD-3100-2200/2 | 3,100                      | 2,200        | 500      | 456700    |
| K-SD-3100-2200/3 | 3,100                      | 2,200        | 680      | 456710    |
| K-SD-3100-2200/4 | 3,100                      | 2,200        | 850      | 456720    |
| K-SD-3100-2200/5 | 3,100                      | 2,200        | 1,020 *  | 456730    |
| K-SD-3100-2700/2 | 3,100                      | 2,700        | 470      | 456740    |
| K-SD-3100-2700/3 | 3,100                      | 2,700        | 630      | 456750    |
| K-SD-3100-2700/4 | 3,100                      | 2,700        | 790      | 456760    |
| K-SD-3100-2700/5 | 3,100                      | 2,700        | 910      | 456770    |
| K-SD-3100-2700/6 | 3,100                      | 2,700        | 1,110 *  | 456780    |
| K-SD-3100-2700/7 | 3,100                      | 2,700        | 2,270 *  | 456790    |
| K-SD-3100-2700/8 | 3,100                      | 2,700        | 1,430 *  | 456800    |

Other frame depths available on request

### Key to order no.:

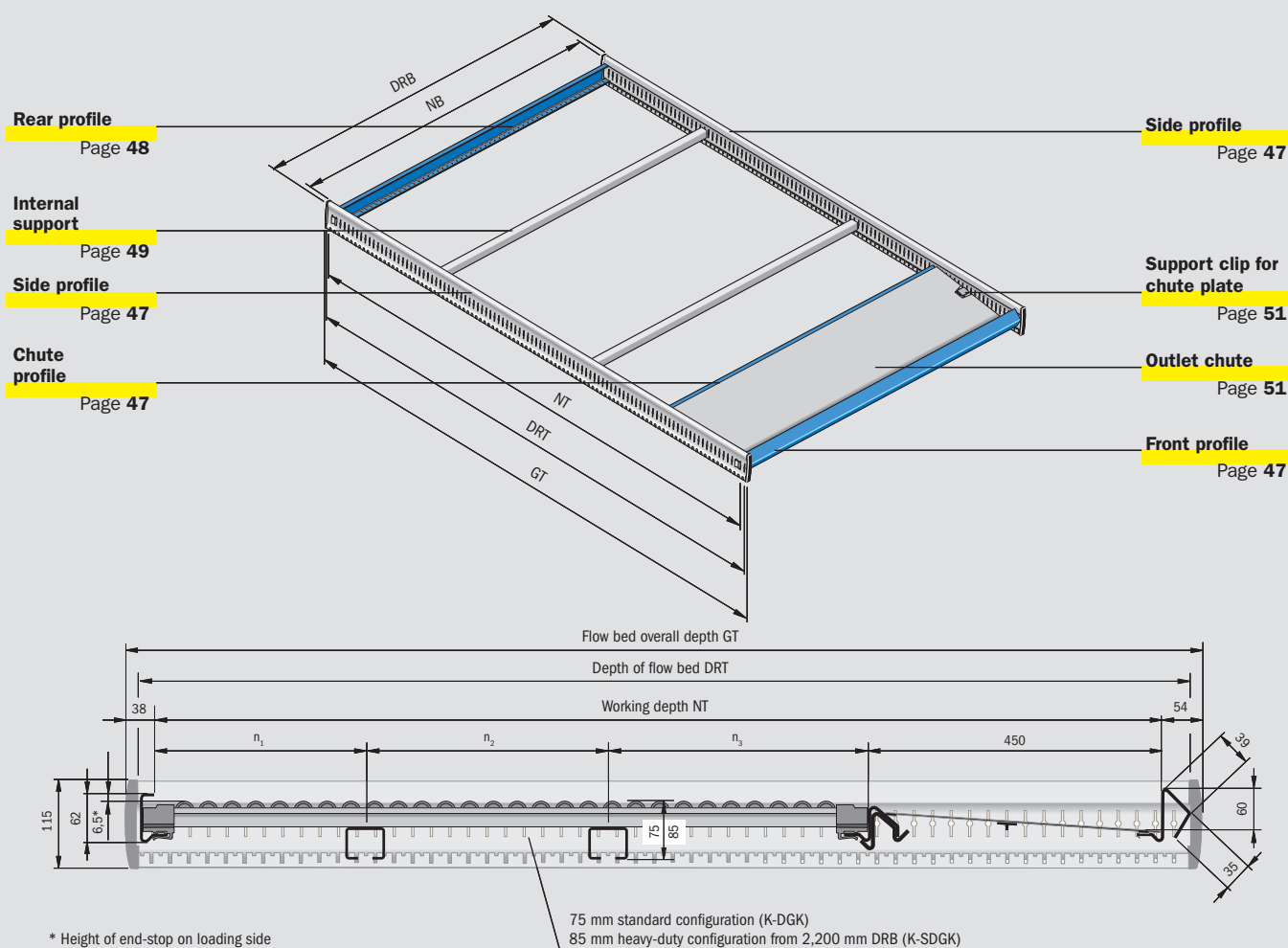
#### K-SD-2500-1800/3



### NOTE:

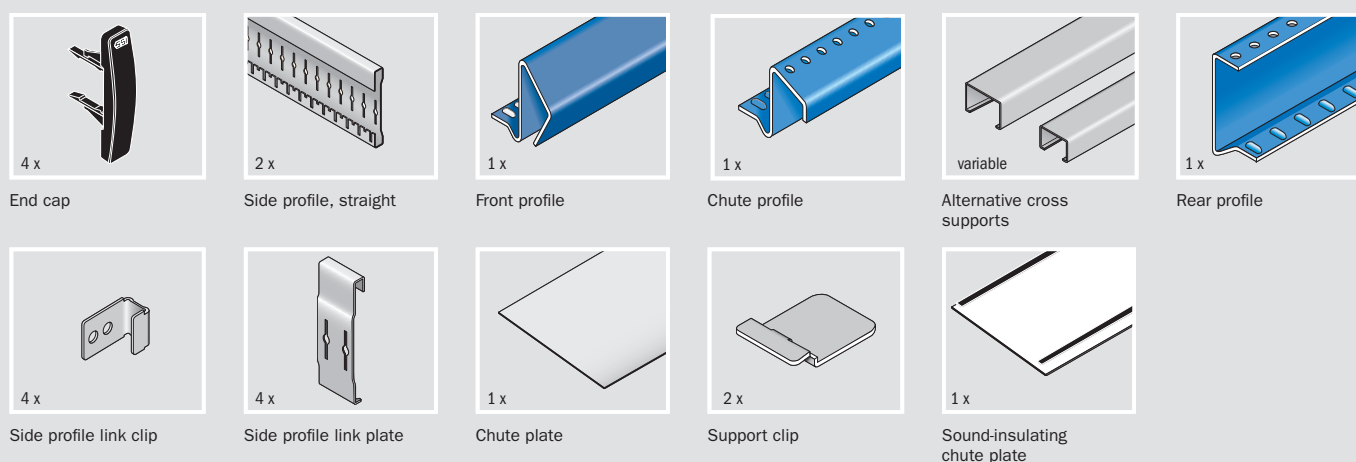
The flow beds marked \* must also be supported on the inside by means of an additional adjusting clip (pages 16 and 50).

# Flat flow bed with front chute K-DGK and K-S DGK



## Flat flow bed with front chute

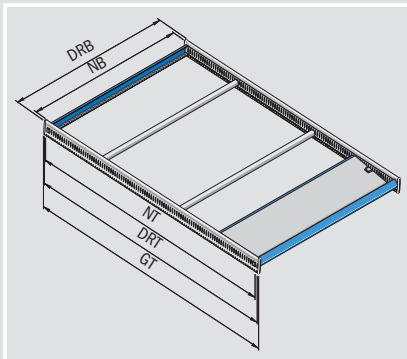
Flow bed consisting of:



### NOTE:

K-VS2 fixing kit is required for assembling the flow bed.  
The following items should also be ordered for the purpose of securing flow beds:  
adjusting clip, outer slotted support; inner slotted support if required.

# Flat flow bed with front chute K-DGK



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

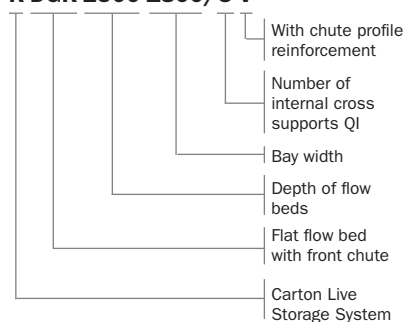
## Complete flat flow bed with front chute K-DGK

| Item                | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|---------------------|----------------------------|--------------|----------|-----------|
| K-DGK-1300-1350/0   | 1,300                      | 1,350        | 400      | 455470    |
| K-DGK-1300-1800/0   | 1,300                      | 1,800        | 250      | 455480    |
| K-DGK-1300-1800/1   | 1,300                      | 1,800        | 500      | 455490    |
| K-DGK-1300-2200/0   | 1,300                      | 2,200        | 160      | 455500    |
| K-DGK-1300-2200/1   | 1,300                      | 2,200        | 320      | 455510    |
| K-DGK-1300-2200/2   | 1,300                      | 2,200        | 430      | 455520    |
| K-DGK-1300-2200/3-V | 1,300                      | 2,200        | 650      | 455530    |
| K-DGK-1300-2700/0   | 1,300                      | 2,700        | 100      | 455540    |
| K-DGK-1300-2700/1   | 1,300                      | 2,700        | 200      | 455550    |
| K-DGK-1300-2700/2-V | 1,300                      | 2,700        | 310      | 455560    |
| K-DGK-1300-2700/3-V | 1,300                      | 2,700        | 410      | 455570    |
| K-DGK-1700-1350/0   | 1,700                      | 1,350        | 260      | 455580    |
| K-DGK-1700-1350/1   | 1,700                      | 1,350        | 690      | 455590    |
| K-DGK-1700-1800/0   | 1,700                      | 1,800        | 220      | 455600    |
| K-DGK-1700-1800/1   | 1,700                      | 1,800        | 440      | 455610    |
| K-DGK-1700-1800/2   | 1,700                      | 1,800        | 660      | 455620    |
| K-DGK-1700-2200/0   | 1,700                      | 2,200        | 140      | 455630    |
| K-DGK-1700-2200/1   | 1,700                      | 2,200        | 290      | 455640    |
| K-DGK-1700-2200/2   | 1,700                      | 2,200        | 430      | 455650    |
| K-DGK-1700-2200/3-V | 1,700                      | 2,200        | 580      | 455660    |
| K-DGK-1700-2700/1   | 1,700                      | 2,700        | 180      | 455670    |
| K-DGK-1700-2700/2   | 1,700                      | 2,700        | 270      | 455680    |
| K-DGK-1700-2700/3   | 1,700                      | 2,700        | 370      | 455690    |
| K-DGK-1700-2700/4   | 1,700                      | 2,700        | 460      | 455700    |
| K-DGK-1700-2700/5-V | 1,700                      | 2,700        | 550      | 455710    |
| K-DGK-1900-1350/0   | 1,900                      | 1,350        | 180      | 455720    |
| K-DGK-1900-1350/1   | 1,900                      | 1,350        | 570      | 455730    |
| K-DGK-1900-1800/0   | 1,900                      | 1,800        | 210      | 455740    |
| K-DGK-1900-1800/1   | 1,900                      | 1,800        | 420      | 455750    |
| K-DGK-1900-1800/2   | 1,900                      | 1,800        | 640      | 455760    |
| K-DGK-1900-2200/0   | 1,900                      | 2,200        | 140      | 455770    |
| K-DGK-1900-2200/1   | 1,900                      | 2,200        | 280      | 455780    |
| K-DGK-1900-2200/2   | 1,900                      | 2,200        | 420      | 455790    |
| K-DGK-1900-2200/3   | 1,900                      | 2,200        | 560      | 455800    |
| K-DGK-1900-2200/4-V | 1,900                      | 2,200        | 700      | 455810    |
| K-DGK-1900-2700/2   | 1,900                      | 2,700        | 260      | 455820    |
| K-DGK-1900-2700/3   | 1,900                      | 2,700        | 350      | 455830    |
| K-DGK-1900-2700/4-V | 1,900                      | 2,700        | 440      | 455840    |
| K-DGK-1900-2700/5-V | 1,900                      | 2,700        | 530      | 455850    |
| K-DGK-1900-2700/6-V | 1,900                      | 2,700        | 620      | 455860    |
| K-DGK-2100-1350/0   | 2,100                      | 1,350        | 130      | 455870    |
| K-DGK-2100-1350/1   | 2,100                      | 1,350        | 480      | 455880    |
| K-DGK-2100-1800/0   | 2,100                      | 1,800        | 180      | 455890    |
| K-DGK-2100-1800/1   | 2,100                      | 1,800        | 410      | 455900    |
| K-DGK-2100-1800/2   | 2,100                      | 1,800        | 620      | 455910    |
| K-DGK-2100-1800/3   | 2,100                      | 1,800        | 830      | 455920    |
| K-DGK-2100-2200/0   | 2,100                      | 2,200        | 130      | 455930    |
| K-DGK-2100-2200/1   | 2,100                      | 2,200        | 270      | 455940    |
| K-DGK-2100-2200/2   | 2,100                      | 2,200        | 410      | 455950    |
| K-DGK-2100-2200/3   | 2,100                      | 2,200        | 540      | 455960    |
| K-DGK-2100-2200/4   | 2,100                      | 2,200        | 650      | 455970    |
| K-DGK-2100-2200/5-V | 2,100                      | 2,200        | 820      | 455980    |
| K-DGK-2100-2700/1   | 2,100                      | 2,700        | 170      | 455990    |
| K-DGK-2100-2700/3   | 2,100                      | 2,700        | 340      | 456000    |
| K-DGK-2100-2700/5-V | 2,100                      | 2,700        | 520      | 456010    |
| K-DGK-2100-2700/7-V | 2,100                      | 2,700        | 690      | 456020    |

Other frame depths available on request

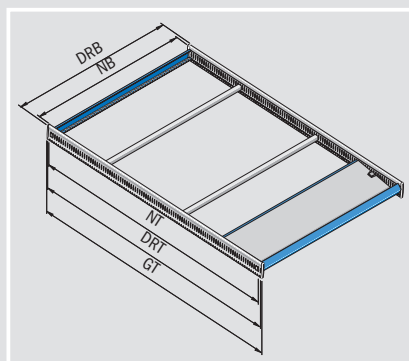
### Key to order no.:

#### K-DGK-2500-1800/3-V





# Flat flow bed with front chute K-DGK



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

## Complete flat flow bed with front chute K-DGK

| Item                 | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|----------------------|----------------------------|--------------|----------|-----------|
| K-DGK-2500-1350/1    | 2,500                      | 1,350        | 370      | 456030    |
| K-DGK-2500-1350/2    | 2,500                      | 1,350        | 560      | 456040    |
| K-DGK-2500-1800/1    | 2,500                      | 1,800        | 390      | 456050    |
| K-DGK-2500-1800/2    | 2,500                      | 1,800        | 590      | 456060    |
| K-DGK-2500-1800/3    | 2,500                      | 1,800        | 790      | 456070    |
| K-DGK-2500-2200/1    | 2,500                      | 2,200        | 260      | 456080    |
| K-DGK-2500-2200/2    | 2,500                      | 2,200        | 390      | 456090    |
| K-DGK-2500-2200/3    | 2,500                      | 2,200        | 520      | 456100    |
| K-DGK-2500-2200/4    | 2,500                      | 2,200        | 650      | 456110    |
| K-DGK-2500-2200/5    | 2,500                      | 2,200        | 760      | 456120    |
| K-DGK-2500-2200/6-V  | 2,500                      | 2,200        | 910      | 456130    |
| K-DGK-2500-2700/1    | 2,500                      | 2,700        | 160      | 456140    |
| K-DGK-2500-2700/3    | 2,500                      | 2,700        | 330      | 456150    |
| K-DGK-2500-2700/5    | 2,500                      | 2,700        | 480      | 456160    |
| K-DGK-2500-2700/7-V  | 2,500                      | 2,700        | 660      | 456170    |
| K-DGK-2500-2700/9-V  | 2,500                      | 2,700        | 830      | 456180    |
| K-DGK-3100-1350/1    | 3,100                      | 1,350        | 270      | 456190    |
| K-DGK-3100-1350/3    | 3,100                      | 1,350        | 560      | 456200    |
| K-DGK-3100-1800/1    | 3,100                      | 1,800        | 190      | 456210    |
| K-DGK-3100-1800/2    | 3,100                      | 1,800        | 550      | 456220    |
| K-DGK-3100-1800/3    | 3,100                      | 1,800        | 740      | 456230    |
| K-DGK-3100-1800/4    | 3,100                      | 1,800        | 910      | 456240    |
| K-DGK-3100-2200/2    | 3,100                      | 2,200        | 370      | 456250    |
| K-DGK-3100-2200/3    | 3,100                      | 2,200        | 500      | 456260    |
| K-DGK-3100-2200/4    | 3,100                      | 2,200        | 620      | 456270    |
| K-DGK-3100-2200/5    | 3,100                      | 2,200        | 750      | 456280    |
| K-DGK-3100-2200/6    | 3,100                      | 2,200        | 880      | 456290    |
| K-DGK-3100-2200/7-V  | 3,100                      | 2,200        | 1,000 *  | 456300    |
| K-DGK-3100-2700/2    | 3,100                      | 2,700        | 240      | 456310    |
| K-DGK-3100-2700/4    | 3,100                      | 2,700        | 400      | 456320    |
| K-DGK-3100-2700/6    | 3,100                      | 2,700        | 560      | 456330    |
| K-DGK-3100-2700/8-V  | 3,100                      | 2,700        | 720      | 456340    |
| K-DGK-3100-2700/10-V | 3,100                      | 2,700        | 880      | 456350    |
| K-DGK-3100-2700/12-V | 3,100                      | 2,700        | 1,040 *  | 456360    |

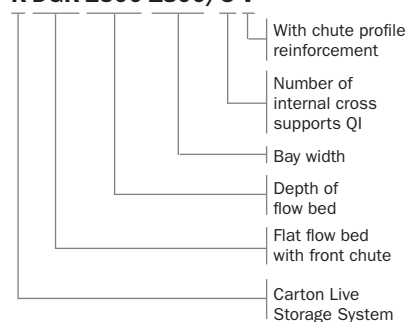
Other frame depths available on request



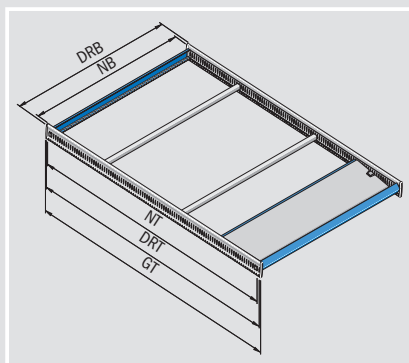
**NOTE:** The flow beds marked \* must also be supported on the inside by means of an additional adjusting clip (pages 16 and 50).

## Key to order no.:

### K-DGK-2500-1800/3-V



# Flat flow bed with front chute heavy-duty configuration K-S DGK



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

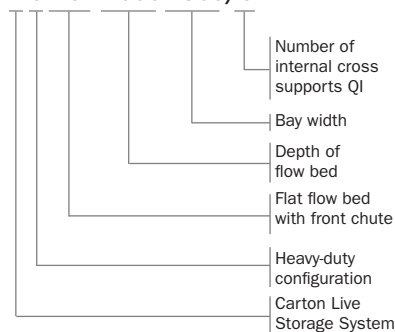
## Complete flat flow bed with front chute, heavy-duty configuration K-S DGK

| Item                  | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|-----------------------|----------------------------|--------------|----------|-----------|
| K-S DGK-1300-2200/0-V | 1,300                      | 2,200        | 370      | 456840    |
| K-S DGK-1300-2200/1-V | 1,300                      | 2,200        | 750      | 456850    |
| K-S DGK-1300-2700/0-V | 1,300                      | 2,700        | 240      | 456860    |
| K-S DGK-1300-2700/1-V | 1,300                      | 2,700        | 480      | 456870    |
| K-S DGK-1300-2700/2-V | 1,300                      | 2,700        | 670      | 456880    |
| K-S DGK-1700-2200/0-V | 1,700                      | 2,200        | 330      | 456890    |
| K-S DGK-1700-2200/1-V | 1,700                      | 2,200        | 660      | 456900    |
| K-S DGK-1700-2700/0-V | 1,700                      | 2,700        | 210      | 456910    |
| K-S DGK-1700-2700/1-V | 1,700                      | 2,700        | 430      | 456920    |
| K-S DGK-1700-2700/2-V | 1,700                      | 2,700        | 650      | 456930    |
| K-S DGK-1700-2700/3-V | 1,700                      | 2,700        | 840      | 456940    |
| K-S DGK-1900-2200/0-V | 1,900                      | 2,200        | 310      | 456950    |
| K-S DGK-1900-2200/1-V | 1,900                      | 2,200        | 640      | 456960    |
| K-S DGK-1900-2200/2-V | 1,900                      | 2,200        | 960      | 456970    |
| K-S DGK-1900-2700/0-V | 1,900                      | 2,700        | 200      | 456980    |
| K-S DGK-1900-2700/1-V | 1,900                      | 2,700        | 410      | 456990    |
| K-S DGK-1900-2700/2-V | 1,900                      | 2,700        | 620      | 457000    |
| K-S DGK-1900-2700/3-V | 1,900                      | 2,700        | 830      | 457010    |
| K-S DGK-2100-2200/0   | 2,100                      | 2,200        | 230      | 457020    |
| K-S DGK-2100-2200/1   | 2,100                      | 2,200        | 400      | 457030    |
| K-S DGK-2100-2200/1-V | 2,100                      | 2,200        | 620      | 457040    |
| K-S DGK-2100-2200/2-V | 2,100                      | 2,200        | 930      | 457050    |
| K-S DGK-2100-2700/0-V | 2,100                      | 2,700        | 200      | 457060    |
| K-S DGK-2100-2700/1-V | 2,100                      | 2,700        | 400      | 457070    |
| K-S DGK-2100-2700/2-V | 2,100                      | 2,700        | 600      | 457080    |
| K-S DGK-2100-2700/3-V | 2,100                      | 2,700        | 810      | 457090    |
| K-S DGK-2100-2700/4-V | 2,100                      | 2,700        | 1,010    | 457100    |
| K-S DGK-2500-2200/1   | 2,500                      | 2,200        | 410      | 457110    |
| K-S DGK-2500-2200/1-V | 2,500                      | 2,200        | 600      | 457120    |
| K-S DGK-2500-2200/2-V | 2,500                      | 2,200        | 900      | 457130    |
| K-S DGK-2500-2700/1   | 2,500                      | 2,700        | 260      | 457140    |
| K-S DGK-2500-2700/1-V | 2,500                      | 2,700        | 380      | 457150    |
| K-S DGK-2500-2700/2-V | 2,500                      | 2,700        | 580      | 457160    |
| K-S DGK-2500-2700/3-V | 2,500                      | 2,700        | 770      | 457170    |
| K-S DGK-2500-2700/4-V | 2,500                      | 2,700        | 970      | 457180    |
| K-S DGK-2500-2700/5-V | 2,500                      | 2,700        | 1,140    | 457190    |
| K-S DGK-3100-2200/1   | 3,100                      | 2,200        | 280      | 457200    |
| K-S DGK-3100-2200/2   | 3,100                      | 2,200        | 560      | 457210    |
| K-S DGK-3100-2200/2-V | 3,100                      | 2,200        | 690      | 457220    |
| K-S DGK-3100-2200/3-V | 3,100                      | 2,200        | 910      | 457230    |
| K-S DGK-3100-2200/4-V | 3,100                      | 2,200        | 1,170 *  | 457240    |
| K-S DGK-3100-2700/1   | 3,100                      | 2,700        | 180      | 457250    |
| K-S DGK-3100-2700/2   | 3,100                      | 2,700        | 350      | 457260    |
| K-S DGK-3100-2700/2-V | 3,100                      | 2,700        | 560      | 457270    |
| K-S DGK-3100-2700/3-V | 3,100                      | 2,700        | 740      | 457280    |
| K-S DGK-3100-2700/4-V | 3,100                      | 2,700        | 910      | 457290    |
| K-S DGK-3100-2700/5-V | 3,100                      | 2,700        | 1,120 *  | 457300    |
| K-S DGK-3100-2700/6-V | 3,100                      | 2,700        | 1,300 *  | 457310    |

Other frame depths available on request

### Key to order no.:

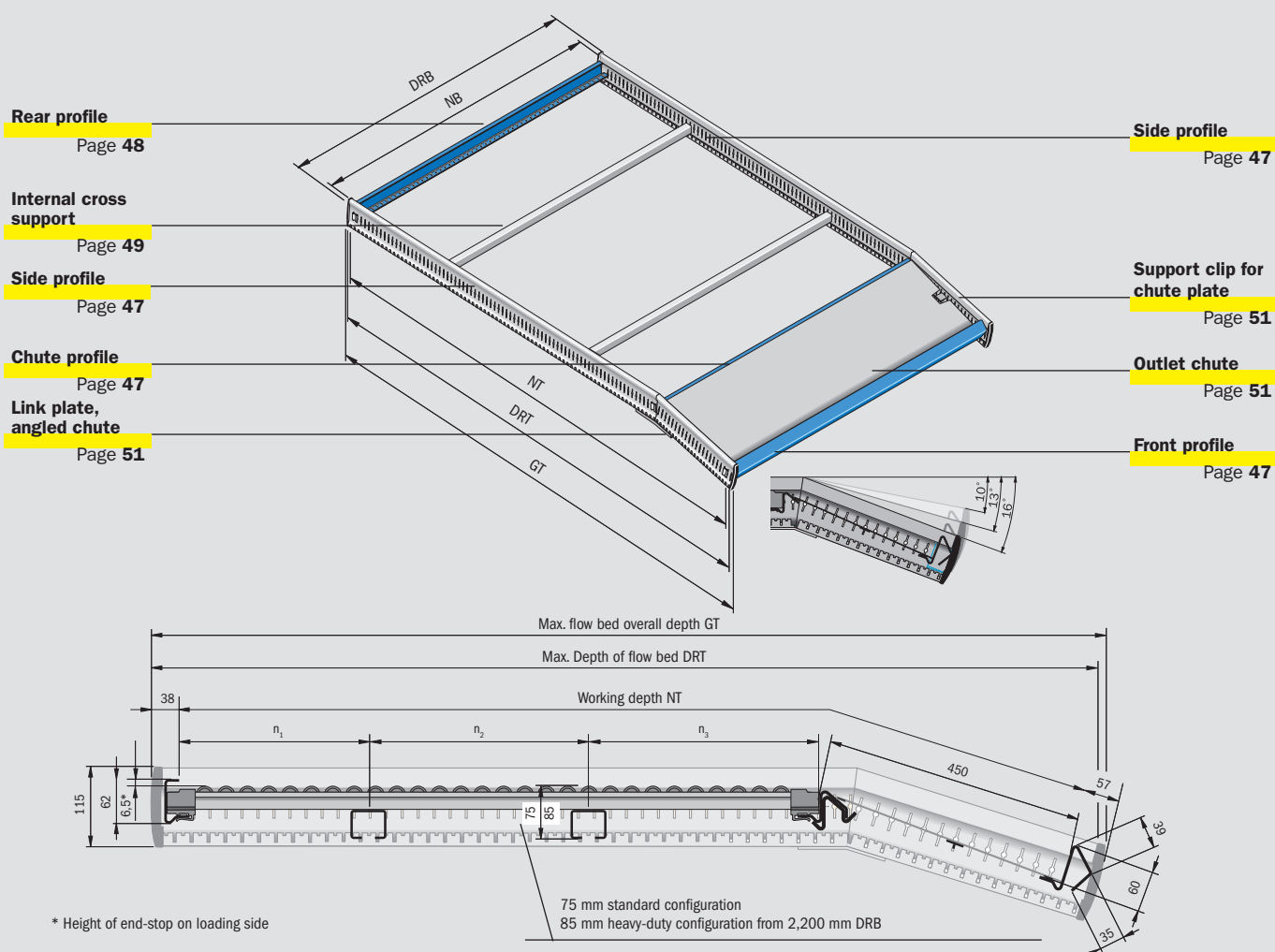
#### K-S DGK-2500-1800/3



### NOTE:

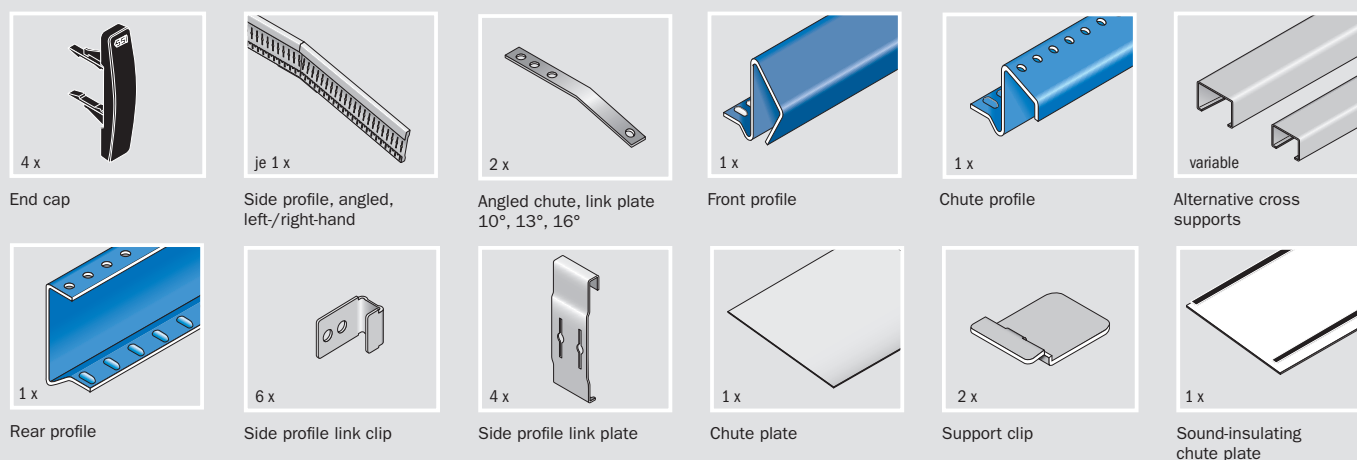
The flow beds marked \* must also be supported on the inside by means of an additional adjusting clip (pages 16 and 50).

# Flow bed with angled front chute K-DK and K-S DK



## Standard flow bed with angled front chute

Flow bed consisting of:

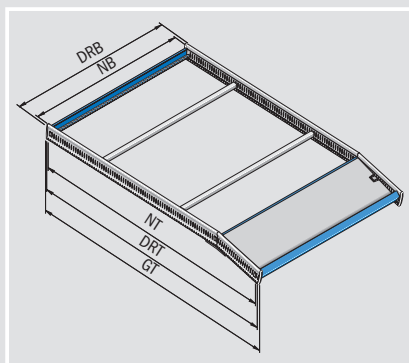


### NOTE:

K-VS3 fixing kit is required for assembling the flow bed.

The following items should also be ordered for the purpose of securing flow beds: adjusting clip, anti-tip clip, outer slotted support; inner slotted support if required.

# Flow bed with angled front chute K-DK



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

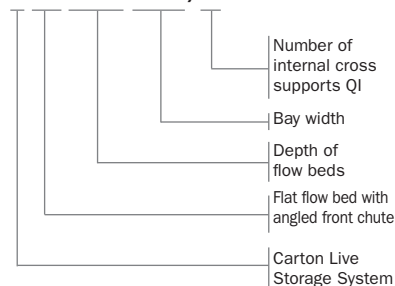
## Complete flow bed with angled front chute K-DK

| Item               | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|--------------------|----------------------------|--------------|----------|-----------|
| K-DK-1300-1350/0   | 1,300                      | 1,350        | 400      | 453780    |
| K-DK-1300-1800/0   | 1,300                      | 1,800        | 250      | 453790    |
| K-DK-1300-1800/1   | 1,300                      | 1,800        | 500      | 453800    |
| K-DK-1300-2200/0   | 1,300                      | 2,200        | 160      | 453810    |
| K-DK-1300-2200/1   | 1,300                      | 2,200        | 320      | 453820    |
| K-DK-1300-2200/2   | 1,300                      | 2,200        | 430      | 453830    |
| K-DK-1300-2200/3-V | 1,300                      | 2,200        | 650      | 453840    |
| K-DK-1300-2700/0   | 1,300                      | 2,700        | 100      | 453850    |
| K-DK-1300-2700/1   | 1,300                      | 2,700        | 200      | 453860    |
| K-DK-1300-2700/2-V | 1,300                      | 2,700        | 310      | 453870    |
| K-DK-1300-2700/3-V | 1,300                      | 2,700        | 410      | 453880    |
| K-DK-1700-1350/0   | 1,700                      | 1,350        | 260      | 453890    |
| K-DK-1700-1350/1   | 1,700                      | 1,350        | 690      | 453900    |
| K-DK-1700-1800/0   | 1,700                      | 1,800        | 220      | 453910    |
| K-DK-1700-1800/1   | 1,700                      | 1,800        | 440      | 453920    |
| K-DK-1700-1800/2   | 1,700                      | 1,800        | 660      | 453930    |
| K-DK-1700-2200/0   | 1,700                      | 2,200        | 140      | 453940    |
| K-DK-1700-2200/1   | 1,700                      | 2,200        | 290      | 453950    |
| K-DK-1700-2200/2   | 1,700                      | 2,200        | 430      | 453960    |
| K-DK-1700-2200/3-V | 1,700                      | 2,200        | 580      | 453970    |
| K-DK-1700-2700/1   | 1,700                      | 2,700        | 180      | 453980    |
| K-DK-1700-2700/2   | 1,700                      | 2,700        | 270      | 453990    |
| K-DK-1700-2700/3   | 1,700                      | 2,700        | 370      | 454000    |
| K-DK-1700-2700/4   | 1,700                      | 2,700        | 460      | 454010    |
| K-DK-1700-2700/5-V | 1,700                      | 2,700        | 550      | 454020    |
| K-DK-1900-1350/0   | 1,900                      | 1,350        | 180      | 454030    |
| K-DK-1900-1350/1   | 1,900                      | 1,350        | 570      | 454040    |
| K-DK-1900-1800/0   | 1,900                      | 1,800        | 210      | 454050    |
| K-DK-1900-1800/1   | 1,900                      | 1,800        | 420      | 454060    |
| K-DK-1900-1800/2   | 1,900                      | 1,800        | 640      | 454070    |
| K-DK-1900-2200/0   | 1,900                      | 2,200        | 140      | 454080    |
| K-DK-1900-2200/1   | 1,900                      | 2,200        | 280      | 454090    |
| K-DK-1900-2200/2   | 1,900                      | 2,200        | 420      | 454100    |
| K-DK-1900-2200/3   | 1,900                      | 2,200        | 560      | 454110    |
| K-DK-1900-2200/4-V | 1,900                      | 2,200        | 700      | 454120    |
| K-DK-1900-2700/2   | 1,900                      | 2,700        | 260      | 454130    |
| K-DK-1900-2700/3   | 1,900                      | 2,700        | 350      | 454140    |
| K-DK-1900-2700/4-V | 1,900                      | 2,700        | 440      | 454150    |
| K-DK-1900-2700/5-V | 1,900                      | 2,700        | 530      | 454160    |
| K-DK-1900-2700/6-V | 1,900                      | 2,700        | 620      | 454170    |
| K-DK-2100-1350/0   | 2,100                      | 1,350        | 130      | 454180    |
| K-DK-2100-1350/1   | 2,100                      | 1,350        | 480      | 454190    |
| K-DK-2100-1800/0   | 2,100                      | 1,800        | 180      | 454200    |
| K-DK-2100-1800/1   | 2,100                      | 1,800        | 410      | 454210    |
| K-DK-2100-1800/2   | 2,100                      | 1,800        | 620      | 454220    |
| K-DK-2100-1800/3   | 2,100                      | 1,800        | 830      | 454230    |
| K-DK-2100-2200/0   | 2,100                      | 2,200        | 130      | 454240    |
| K-DK-2100-2200/1   | 2,100                      | 2,200        | 270      | 454250    |
| K-DK-2100-2200/2   | 2,100                      | 2,200        | 410      | 454260    |
| K-DK-2100-2200/3   | 2,100                      | 2,200        | 540      | 454270    |
| K-DK-2100-2200/4   | 2,100                      | 2,200        | 650      | 454280    |
| K-DK-2100-2200/5-V | 2,100                      | 2,200        | 820      | 454290    |
| K-DK-2100-2700/1   | 2,100                      | 2,700        | 170      | 454300    |
| K-DK-2100-2700/3   | 2,100                      | 2,700        | 340      | 454310    |
| K-DK-2100-2700/5-V | 2,100                      | 2,700        | 520      | 454320    |
| K-DK-2100-2700/7-V | 2,100                      | 2,700        | 690      | 454330    |

Other frame depths available on request

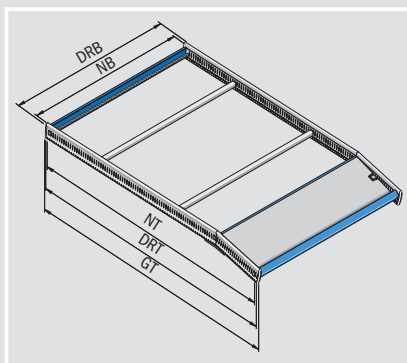
### Key to order no.:

#### K-DK-2500-1800/3





# Flow bed with angled front chute K-DK



- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

## Complete flow bed with angled front chute K-DK

| Item                | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|---------------------|----------------------------|--------------|----------|-----------|
| K-DK-2500-1350/1    | 2,500                      | 1,350        | 370      | 454340    |
| K-DK-2500-1350/2    | 2,500                      | 1,350        | 560      | 454350    |
| K-DK-2500-1800/1    | 2,500                      | 1,800        | 390      | 454360    |
| K-DK-2500-1800/2    | 2,500                      | 1,800        | 590      | 454370    |
| K-DK-2500-1800/3    | 2,500                      | 1,800        | 790      | 454380    |
| K-DK-2500-2200/1    | 2,500                      | 2,200        | 260      | 454390    |
| K-DK-2500-2200/2    | 2,500                      | 2,200        | 390      | 454400    |
| K-DK-2500-2200/3    | 2,500                      | 2,200        | 520      | 454410    |
| K-DK-2500-2200/4    | 2,500                      | 2,200        | 650      | 454420    |
| K-DK-2500-2200/5    | 2,500                      | 2,200        | 760      | 454430    |
| K-DK-2500-2200/6-V  | 2,500                      | 2,200        | 910      | 454440    |
| K-DK-2500-2700/1    | 2,500                      | 2,700        | 160      | 454450    |
| K-DK-2500-2700/3    | 2,500                      | 2,700        | 330      | 454460    |
| K-DK-2500-2700/5    | 2,500                      | 2,700        | 480      | 454470    |
| K-DK-2500-2700/7-V  | 2,500                      | 2,700        | 660      | 454480    |
| K-DK-2500-2700/9-V  | 2,500                      | 2,700        | 830      | 454490    |
| K-DK-3100-1350/1    | 3,100                      | 1,350        | 270      | 454500    |
| K-DK-3100-1350/3    | 3,100                      | 1,350        | 560      | 454510    |
| K-DK-3100-1800/1    | 3,100                      | 1,800        | 190      | 454520    |
| K-DK-3100-1800/2    | 3,100                      | 1,800        | 550      | 454530    |
| K-DK-3100-1800/3    | 3,100                      | 1,800        | 740      | 454540    |
| K-DK-3100-1800/4    | 3,100                      | 1,800        | 910      | 454550    |
| K-DK-3100-2200/2    | 3,100                      | 2,200        | 370      | 454560    |
| K-DK-3100-2200/3    | 3,100                      | 2,200        | 500      | 454570    |
| K-DK-3100-2200/4    | 3,100                      | 2,200        | 620      | 454580    |
| K-DK-3100-2200/5    | 3,100                      | 2,200        | 750      | 454590    |
| K-DK-3100-2200/6    | 3,100                      | 2,200        | 880      | 454600    |
| K-DK-3100-2200/7-V  | 3,100                      | 2,200        | 1,000 *  | 454610    |
| K-DK-3100-2700/2    | 3,100                      | 2,700        | 240      | 454620    |
| K-DK-3100-2700/4    | 3,100                      | 2,700        | 400      | 454630    |
| K-DK-3100-2700/6    | 3,100                      | 2,700        | 560      | 454640    |
| K-DK-3100-2700/8-V  | 3,100                      | 2,700        | 720      | 454650    |
| K-DK-3100-2700/10-V | 3,100                      | 2,700        | 880      | 454660    |
| K-DK-3100-2700/12-V | 3,100                      | 2,700        | 1,040 *  | 454670    |

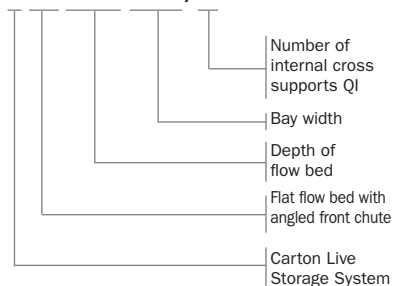
Other frame depths available on request



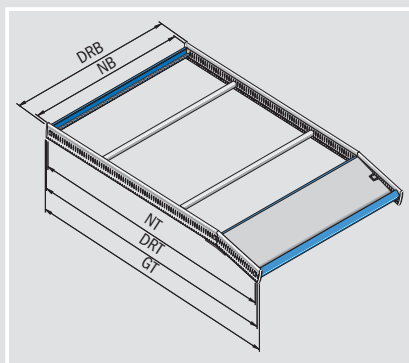
**NOTE:** The flow beds marked \* must also be supported on the inside by means of an additional adjusting clip (pages 16 and 50.)

## Key to order no.:

### K-DK-2500-1800/3



# Flow bed with angled front chute, heavy-duty configuration K-S DK



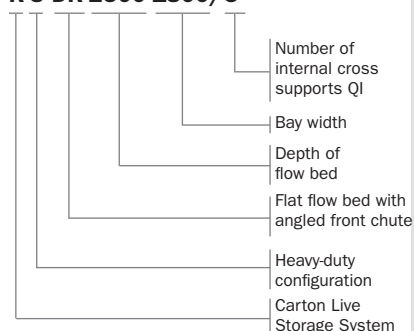
- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 68 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

## Complete flow bed with angled front chute, heavy-duty configuration K-S DK

| Item                 | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|----------------------|----------------------------|--------------|----------|-----------|
| K-S DK-1300-2200/0-V | 1,300                      | 2,200        | 370      | 457350    |
| K-S DK-1300-2200/1-V | 1,300                      | 2,200        | 750      | 457360    |
| K-S DK-1300-2700/0-V | 1,300                      | 2,700        | 240      | 457370    |
| K-S DK-1300-2700/1-V | 1,300                      | 2,700        | 480      | 457380    |
| K-S DK-1300-2700/2-V | 1,300                      | 2,700        | 670      | 457390    |
| K-S DK-1700-2200/0-V | 1,700                      | 2,200        | 330      | 457400    |
| K-S DK-1700-2200/1-V | 1,700                      | 2,200        | 660      | 457410    |
| K-S DK-1700-2700/0-V | 1,700                      | 2,700        | 210      | 457420    |
| K-S DK-1700-2700/1-V | 1,700                      | 2,700        | 430      | 457430    |
| K-S DK-1700-2700/2-V | 1,700                      | 2,700        | 650      | 457440    |
| K-S DK-1700-2700/3-V | 1,700                      | 2,700        | 840      | 457450    |
| K-S DK-1900-2200/0-V | 1,900                      | 2,200        | 310      | 457460    |
| K-S DK-1900-2200/1-V | 1,900                      | 2,200        | 640      | 457470    |
| K-S DK-1900-2200/2-V | 1,900                      | 2,200        | 960      | 457480    |
| K-S DK-1900-2700/0-V | 1,900                      | 2,700        | 200      | 457490    |
| K-S DK-1900-2700/1-V | 1,900                      | 2,700        | 410      | 457500    |
| K-S DK-1900-2700/2-V | 1,900                      | 2,700        | 620      | 457510    |
| K-S DK-1900-2700/3-V | 1,900                      | 2,700        | 830      | 457520    |
| K-S DK-2100-2200/0   | 2,100                      | 2,200        | 230      | 457530    |
| K-S DK-2100-2200/1   | 2,100                      | 2,200        | 400      | 457540    |
| K-S DK-2100-2200/1-V | 2,100                      | 2,200        | 620      | 457550    |
| K-S DK-2100-2200/2-V | 2,100                      | 2,200        | 930      | 457560    |
| K-S DK-2100-2700/0-V | 2,100                      | 2,700        | 200      | 457570    |
| K-S DK-2100-2700/1-V | 2,100                      | 2,700        | 400      | 457580    |
| K-S DK-2100-2700/2-V | 2,100                      | 2,700        | 600      | 457590    |
| K-S DK-2100-2700/3-V | 2,100                      | 2,700        | 810      | 457600    |
| K-S DK-2100-2700/4-V | 2,100                      | 2,700        | 1,010    | 457610    |
| K-S DK-2500-2200/1   | 2,500                      | 2,200        | 410      | 457620    |
| K-S DK-2500-2200/1-V | 2,500                      | 2,200        | 600      | 457630    |
| K-S DK-2500-2200/2-V | 2,500                      | 2,200        | 900      | 457640    |
| K-S DK-2500-2700/1   | 2,500                      | 2,700        | 260      | 457650    |
| K-S DK-2500-2700/1-V | 2,500                      | 2,700        | 380      | 457660    |
| K-S DK-2500-2700/2-V | 2,500                      | 2,700        | 580      | 457670    |
| K-S DK-2500-2700/3-V | 2,500                      | 2,700        | 770      | 457680    |
| K-S DK-2500-2700/4-V | 2,500                      | 2,700        | 970      | 457690    |
| K-S DK-2500-2700/5-V | 2,500                      | 2,700        | 1,140    | 457700    |
| K-S DK-3100-2200/1   | 3,100                      | 2,200        | 280      | 457710    |
| K-S DK-3100-2200/2   | 3,100                      | 2,200        | 560      | 457720    |
| K-S DK-3100-2200/2-V | 3,100                      | 2,200        | 690      | 457730    |
| K-S DK-3100-2200/3-V | 3,100                      | 2,200        | 910      | 457740    |
| K-S DK-3100-2200/4-V | 3,100                      | 2,200        | 1,170 *  | 457750    |
| K-S DK-3100-2700/1   | 3,100                      | 2,700        | 180      | 457760    |
| K-S DK-3100-2700/2   | 3,100                      | 2,700        | 350      | 457770    |
| K-S DK-3100-2700/2-V | 3,100                      | 2,700        | 560      | 457780    |
| K-S DK-3100-2700/3-V | 3,100                      | 2,700        | 740      | 457790    |
| K-S DK-3100-2700/4-V | 3,100                      | 2,700        | 910      | 457800    |
| K-S DK-3100-2700/5-V | 3,100                      | 2,700        | 1,120 *  | 457810    |
| K-S DK-3100-2700/6-V | 3,100                      | 2,700        | 1,300 *  | 457820    |

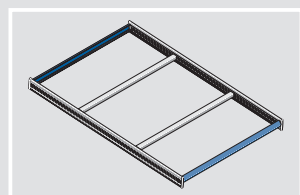
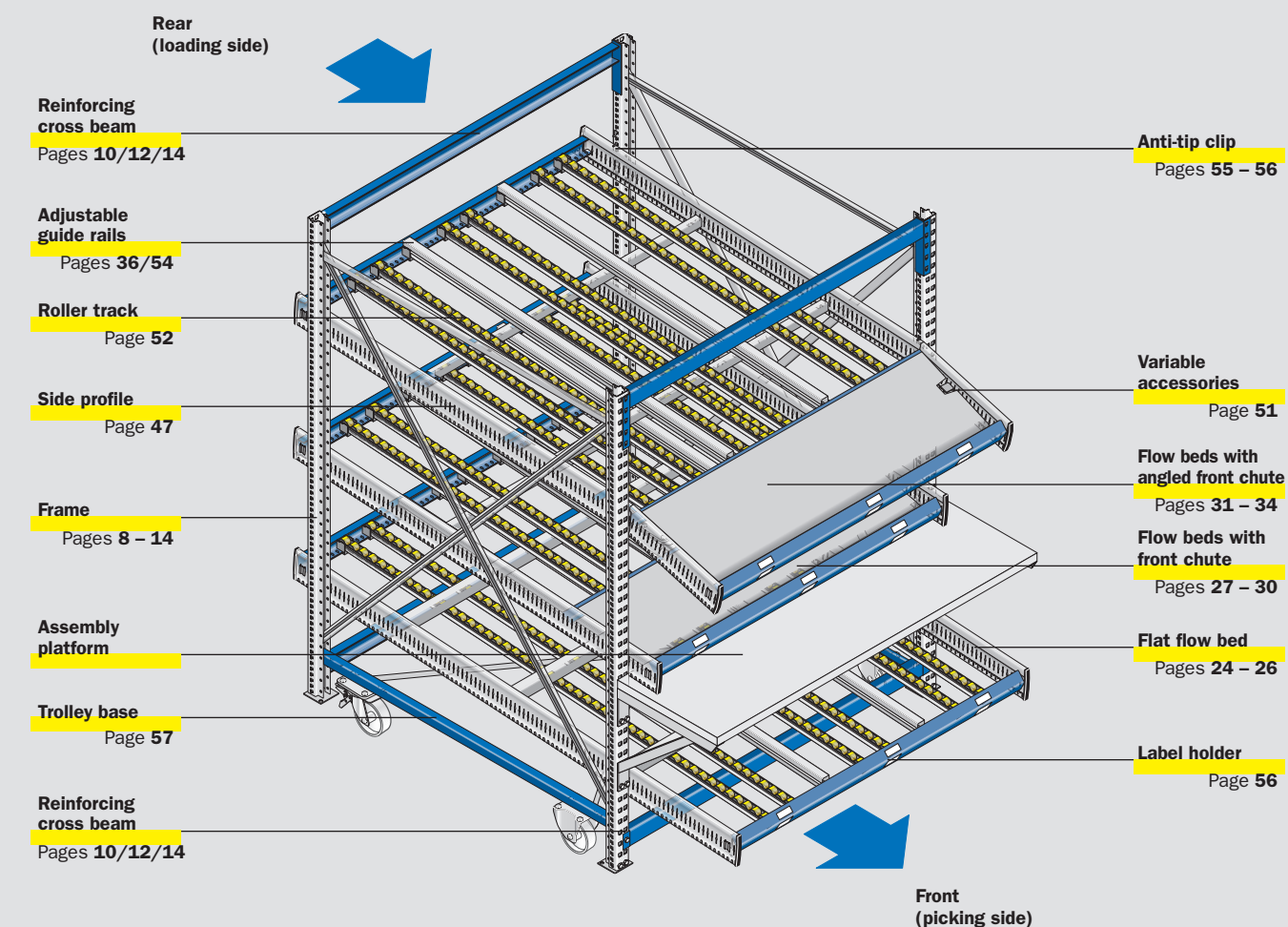
### Key to order no.:

#### K-S DK-2500-1800/3

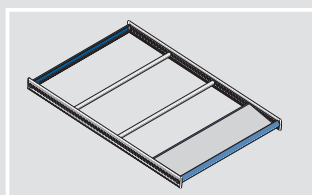


**NOTE:** Flow beds marked \* must also be supported on the inside by means of an additional adjusting clip (pages 16 and 50).

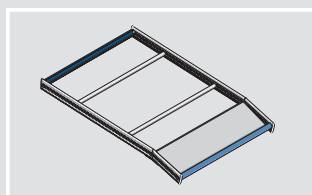
# Carton Live Storage KDR – the system for KLT containers



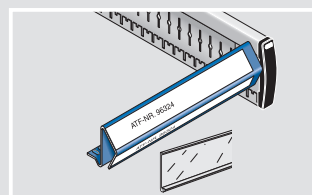
Flat flow bed



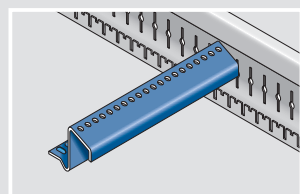
Flat flow bed with front chute



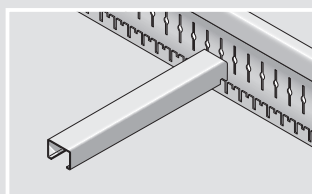
Flow bed with angled front chute



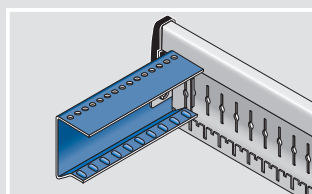
Front profile



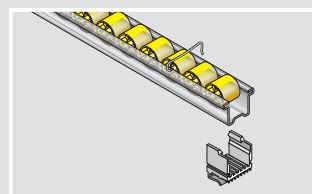
Chute profile



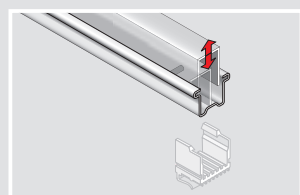
Cross support



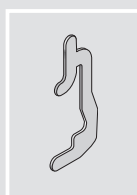
Rear profile KLT



Roller track with spring clip and retainer clip



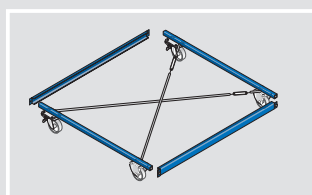
Adjustable guide rails



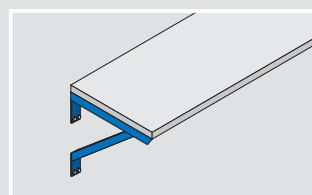
Anti-tip clip



End cap



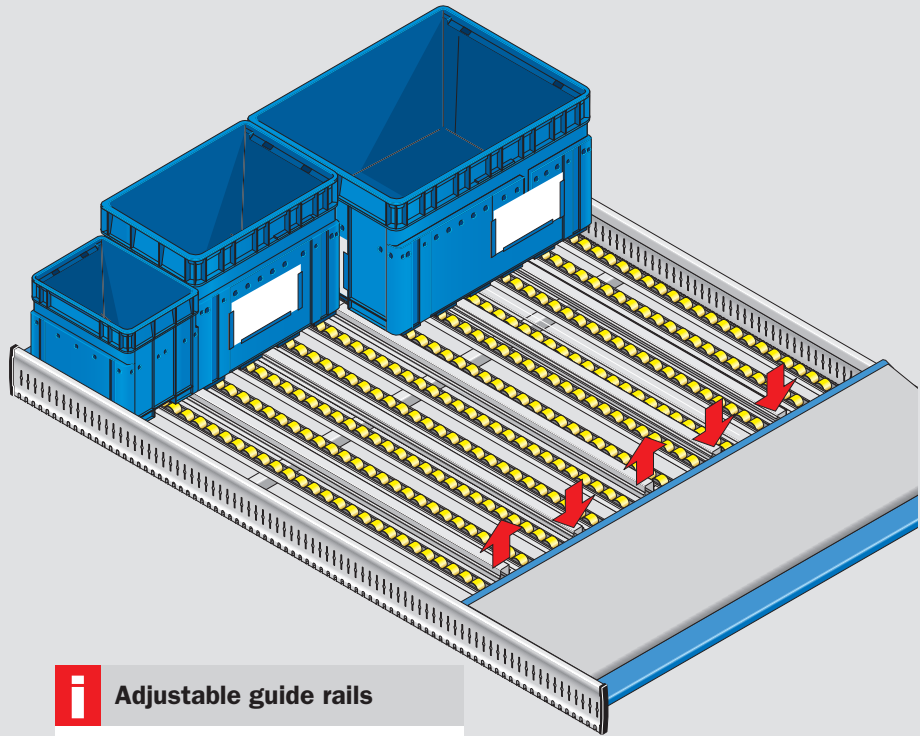
Trolley base on application



Assembly shelf on application

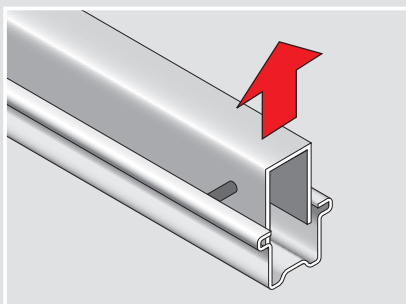
# KLT flow bed with adjustable guide rails, flexible and efficient

- Regardless of container size, or whether storage is lengthways or widthways, the lane width is right; with no need to adjust the roller tracks or guide rails
- Matched shelf dimensions for all sizes of KLT container
- Slot-in system permits easy assembly and adjustment
- Can be used – without any need for conversion – as a conventional flow bed
- Size-matched system profile sections prevent the bottom of the container from catching
- Angle and height adjustment in increments of 6.25 mm
- Adjustment of ergonomic pick face without depth restrictions
- Flow beds with anti-tip clips
- Spring clip for roller track
- Roller track can also be supplied with steel axle
- Adjustable guide rails

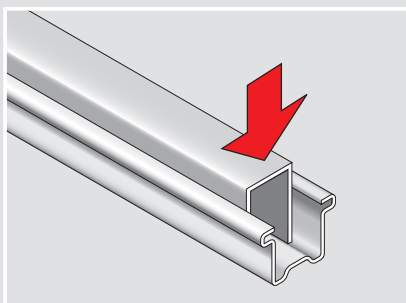


**Adjustable guide rails**

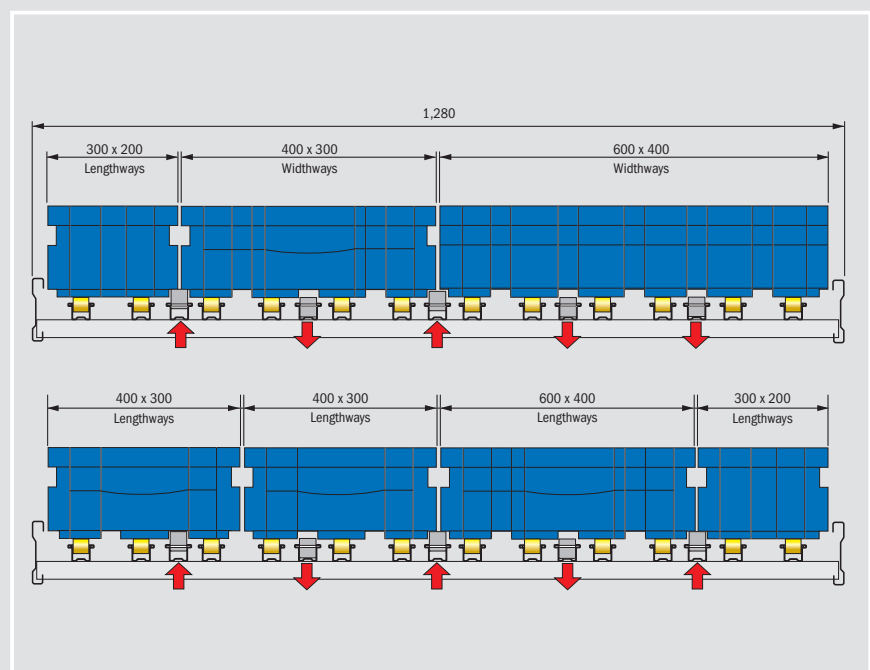
**Patent protected**



Guide rails raised



Guide rails lowered



Example for bay width 1,280 mm



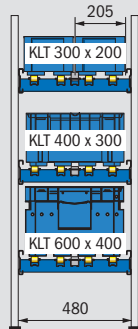
# Sample configurations for KLT flow beds

Containers of different sizes can be mixed on the same level by raising and lowering the guide rails accordingly.

## Bay width 480 mm

| Container type | Number of lanes | Lane width mm |
|----------------|-----------------|---------------|
| KLT 300 x 200  | 2               | 205           |
| KLT 400 x 300  | 2               | 205           |
| KLT 600 x 400  | 2               | 205           |

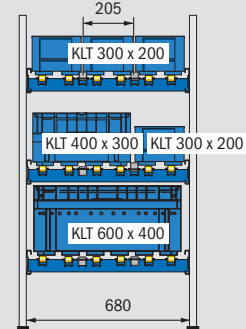
| Roller tracks | Number of Guide rails | Container loading width mm |
|---------------|-----------------------|----------------------------|
| 4             | 1                     | 200                        |
| 4             | 1                     | 400                        |
| 4             | 1                     | 400                        |



## Bay width 680 mm

| Container type | Number of lanes | Lane width mm |
|----------------|-----------------|---------------|
| KLT 300 x 200  | 3               | 205           |
| KLT 400 x 300  | 3               | 205           |
| KLT 600 x 400  | 3               | 205           |

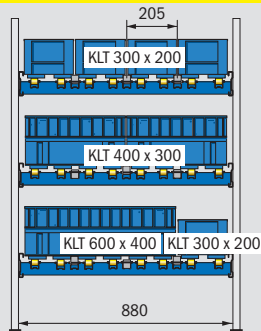
| Roller tracks | Number of Guide rails | Container loading width mm |
|---------------|-----------------------|----------------------------|
| 6             | 2                     | 200                        |
| 6             | 2                     | 400                        |
| 6             | 2                     | 600                        |



## Bay width 880 mm

| Container type | Number of lanes | Lane width mm |
|----------------|-----------------|---------------|
| KLT 300 x 200  | 4               | 205           |
| KLT 400 x 300  | 4               | 205           |
| KLT 600 x 400  | 4               | 205           |

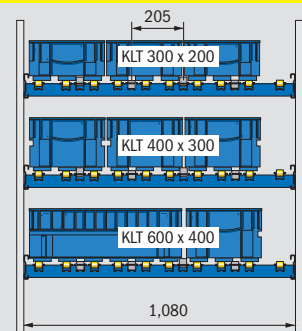
| Roller tracks | Number of Guide rails | Container loading width mm |
|---------------|-----------------------|----------------------------|
| 8             | 3                     | 200                        |
| 8             | 3                     | 400                        |
| 8             | 3                     | 600                        |



## Bay width 1,080 mm

| Container type | Number of lanes | Lane width mm |
|----------------|-----------------|---------------|
| KLT 300 x 200  | 5               | 205           |
| KLT 400 x 300  | 5               | 205           |
| KLT 600 x 400  | 5               | 205           |

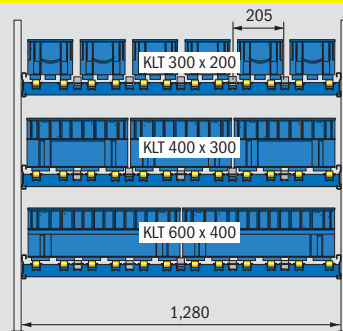
| Roller tracks | Number of Guide rails | Container loading width mm |
|---------------|-----------------------|----------------------------|
| 10            | 4                     | 200                        |
| 10            | 4                     | 400                        |
| 10            | 4                     | 600                        |



## Bay width 1,280 mm

| Container type | Number of lanes | Lane width mm |
|----------------|-----------------|---------------|
| KLT 300 x 200  | 6               | 205           |
| KLT 400 x 300  | 6               | 205           |
| KLT 600 x 400  | 6               | 205           |

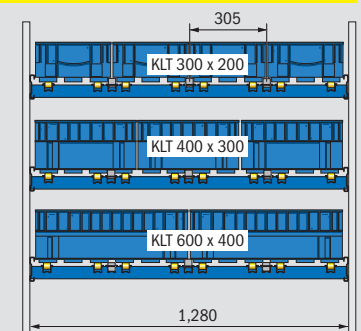
| Roller tracks | Number of Guide rails | Container loading width mm |
|---------------|-----------------------|----------------------------|
| 10            | 5                     | 200                        |
| 10            | 5                     | 400                        |
| 10            | 5                     | 600                        |



## Bay width 1,280 mm

| Container type | Number of lanes | Lane width mm |
|----------------|-----------------|---------------|
| KLT 300 x 200  | 4               | 305           |
| KLT 400 x 300  | 4               | 305           |
| KLT 600 x 400  | 4               | 305           |

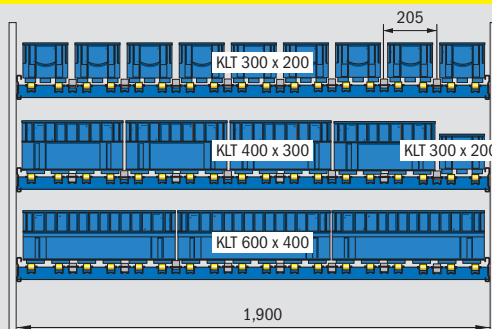
| Roller tracks | Number of Guide rails | Container loading width mm |
|---------------|-----------------------|----------------------------|
| 8             | 3                     | 300                        |
| 8             | 3                     | 400                        |
| 8             | 3                     | 600                        |



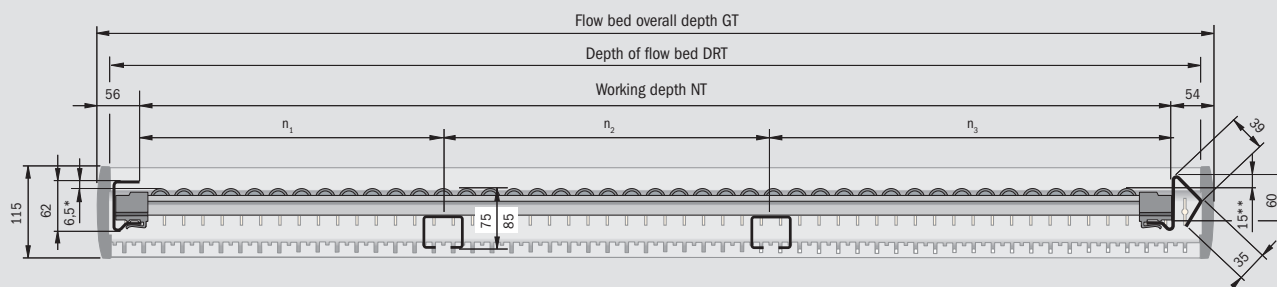
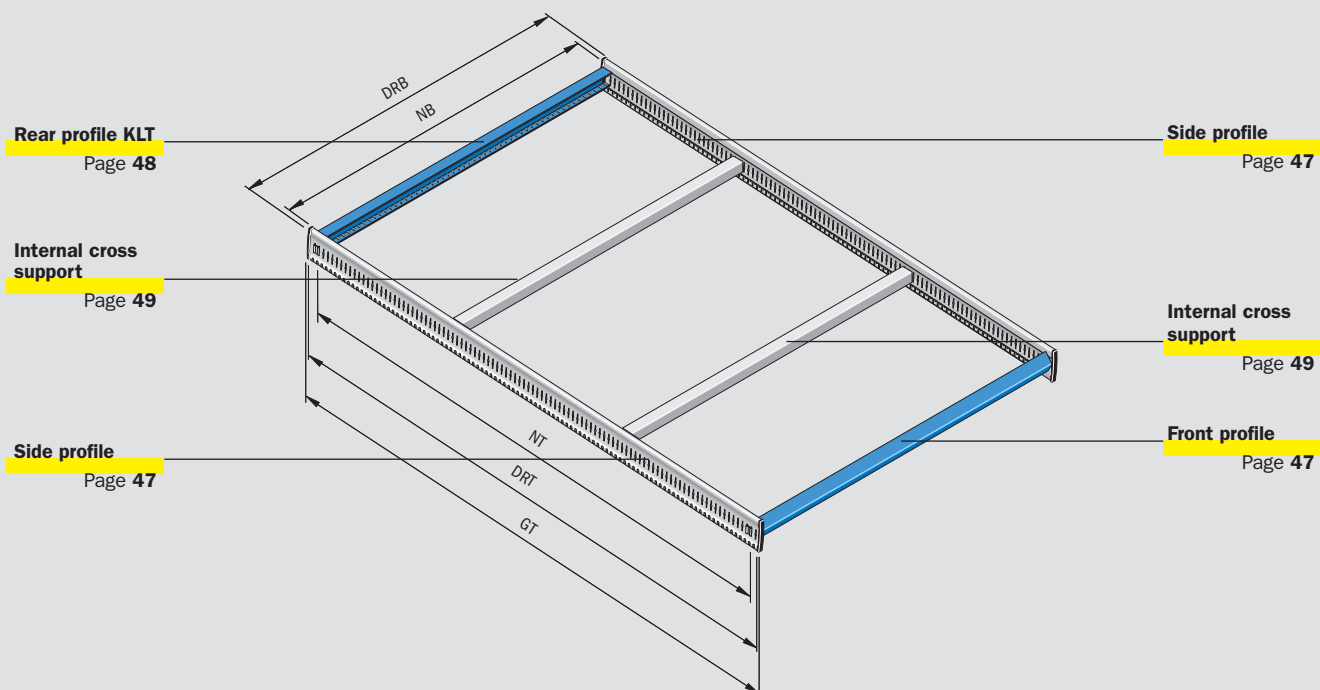
## Bay width 1,900 mm

| Container type | Number of lanes | Lane width mm |
|----------------|-----------------|---------------|
| KLT 300 x 200  | 9               | 205           |
| KLT 400 x 300  | 9               | 205           |
| KLT 600 x 400  | 9               | 205           |

| Roller tracks | Number of Guide rails | Container loading width mm |
|---------------|-----------------------|----------------------------|
| 18            | 8                     | 200                        |
| 18            | 8                     | 400                        |
| 18            | 8                     | 600                        |



# Flat flow beds K-D KLT for KLT containers



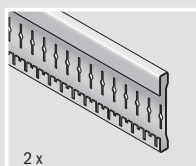
\* Height of end-stop on loading side  
 \*\* Height of end-stop on picking side

## Standard flat flow bed

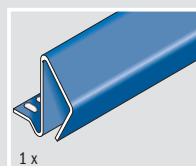
Standard flat flow bed consisting of:



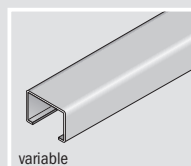
End cap



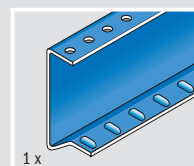
Side profile, straight



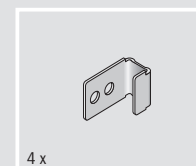
Front cross profile



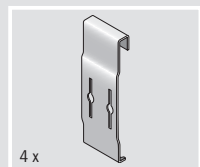
Internal cross supports



Rear profile KLT



Side profile link clip



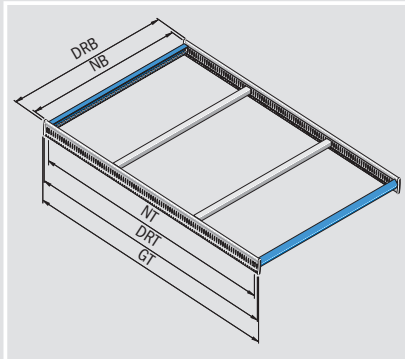
Side profile link plate



### NOTE:

K-VS1 kit is required for assembling the flow bed.  
 The following items should also be ordered for the purpose of securing flow beds:  
 adjusting clip, anti-tip clip, outer slotted support; inner slotted support if required.

# Flat flow beds K-D KLT for KLT containers



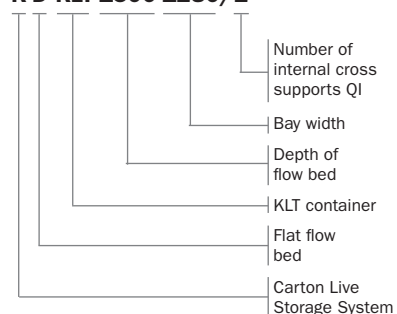
- DRB:** width of flow bed  
= bay width-2 mm
- NB:** working width  
= bay width-46 mm
- NT:** working depth = depth of flow bed  
DRT-86 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT+24 mm

## Complete flat flow bed K-D KLT

| Item                | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|---------------------|----------------------------|--------------|----------|-----------|
| K-D KLT-1300-0880/0 | 1,300                      | 880          | 250      | 454830    |
| K-D KLT-1300-1080/0 | 1,300                      | 1,080        | 200      | 454840    |
| K-D KLT-1300-1280/0 | 1,300                      | 1,280        | 180      | 454850    |
| K-D KLT-1300-1280/1 | 1,300                      | 1,280        | 480      | 454860    |
| K-D KLT-1700-0880/1 | 1,700                      | 880          | 300      | 454870    |
| K-D KLT-1700-1080/1 | 1,700                      | 1,080        | 300      | 454880    |
| K-D KLT-1700-1280/1 | 1,700                      | 1,280        | 300      | 454890    |
| K-D KLT-1900-0880/1 | 1,900                      | 880          | 300      | 454900    |
| K-D KLT-1900-1080/1 | 1,900                      | 1,080        | 250      | 454910    |
| K-D KLT-1900-1280/1 | 1,900                      | 1,280        | 300      | 454920    |
| K-D KLT-1900-1280/2 | 1,900                      | 1,280        | 490      | 454930    |
| K-D KLT-2100-0880/1 | 2,100                      | 880          | 200      | 454940    |
| K-D KLT-2100-1080/1 | 2,100                      | 1,080        | 200      | 454950    |
| K-D KLT-2100-1080/2 | 2,100                      | 1,080        | 400      | 454960    |
| K-D KLT-2100-1280/1 | 2,100                      | 1,280        | 300      | 454970    |
| K-D KLT-2100-1280/2 | 2,100                      | 1,280        | 400      | 454980    |
| K-D KLT-2100-1280/3 | 2,100                      | 1,280        | 600      | 454990    |

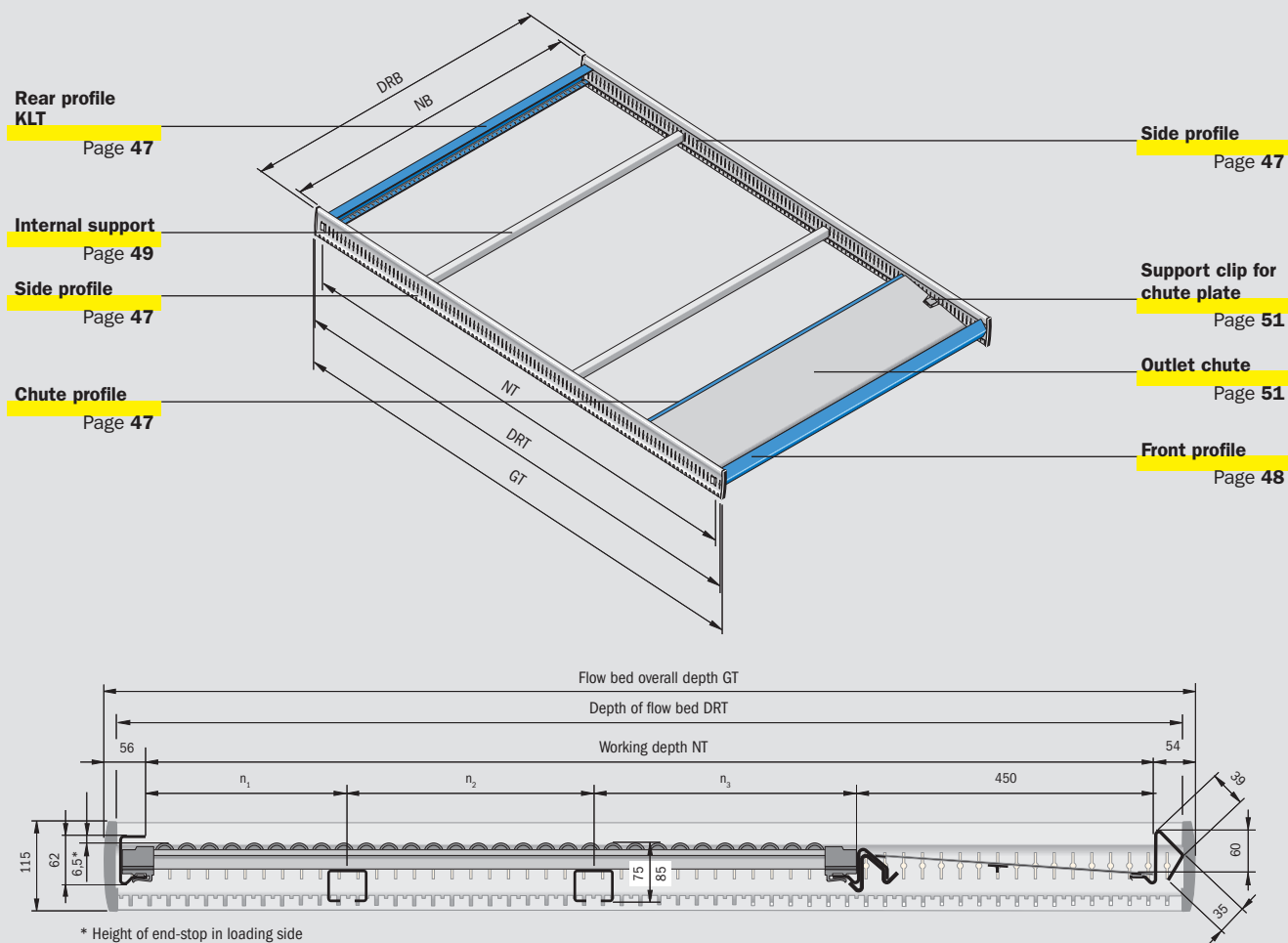
## Key to order no.:

### K-D KLT-1300-1280/2



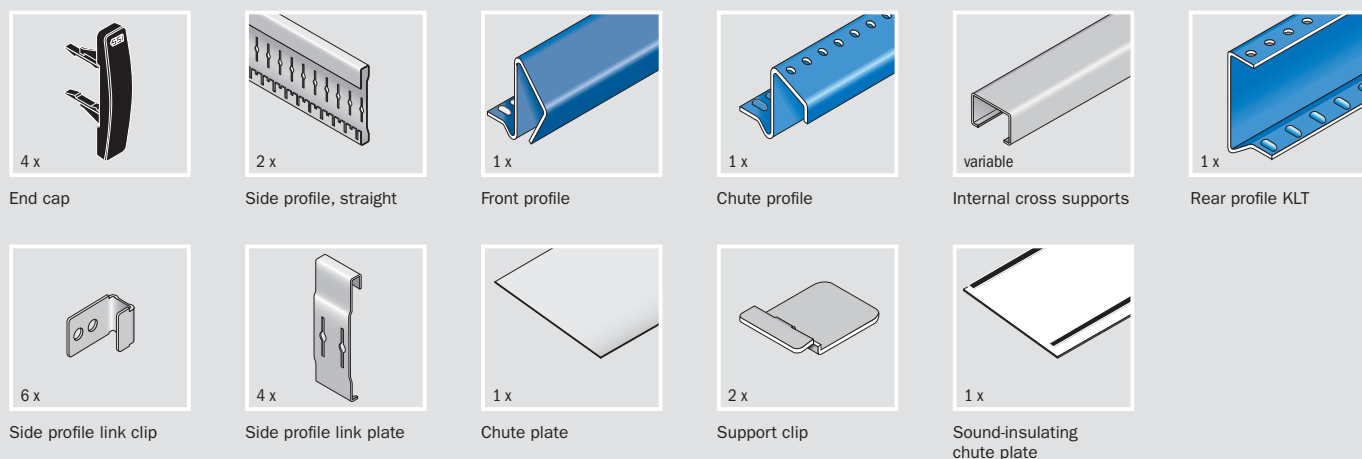
# Flat flow bed with front chute

## K-DGK KLT for KLT containers



### Standard flat flow bed with front chute

Flow bed consisting of:

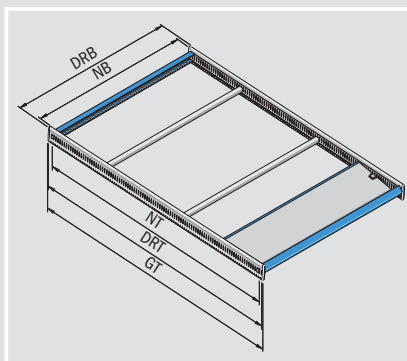


#### NOTE:

K-VS2 fixing kit is required for assembling the flow bed.  
The following items should also be ordered for the purpose of securing the flow beds:  
adjusting clip, anti-tip clip, outer slotted support; inner slotted support if required.



# Flat flow bed with front chute K-DGK KLT for KLT containers



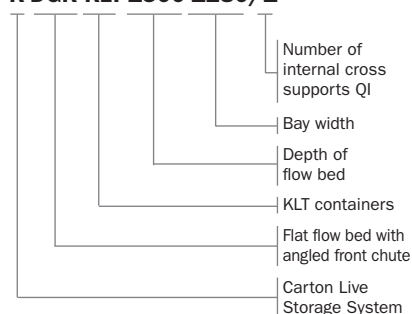
- DRB:** width of flow bed  
= bay width - 2 mm
- NB:** working width  
= bay width - 46 mm
- NT:** working depth = depth of flow bed  
DRT - 86 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT + 24 mm

## Complete flat flow bed with front chute K-DGK KLT

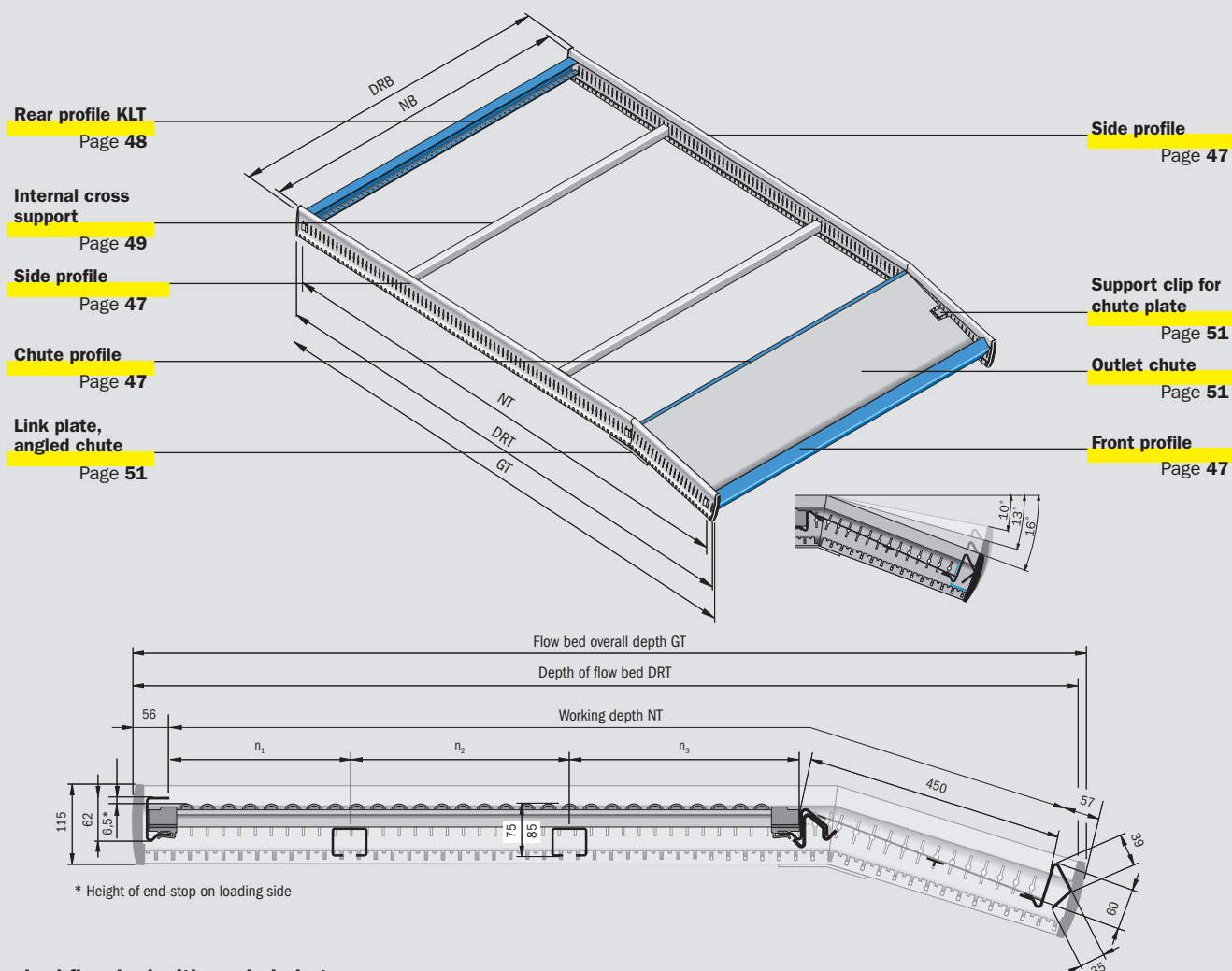
| Item                  | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|-----------------------|----------------------------|--------------|----------|-----------|
| K-DGK KLT-1300-0880/0 | 1,300                      | 880          | 250      | 453630    |
| K-DGK KLT-1300-1080/0 | 1,300                      | 1,080        | 200      | 453640    |
| K-DGK KLT-1300-1280/0 | 1,300                      | 1,280        | 300      | 453650    |
| K-DGK KLT-1700-0880/0 | 1,700                      | 880          | 200      | 453660    |
| K-DGK KLT-1700-1080/0 | 1,700                      | 1,080        | 250      | 453670    |
| K-DGK KLT-1700-1280/0 | 1,700                      | 1,280        | 250      | 453680    |
| K-DGK KLT-1700-1280/1 | 1,700                      | 1,280        | 500      | 453690    |
| K-DGK KLT-1900-0880/1 | 1,900                      | 880          | 300      | 453700    |
| K-DGK KLT-1900-1080/1 | 1,900                      | 1,080        | 350      | 453710    |
| K-DGK KLT-1900-1280/1 | 1,900                      | 1,280        | 400      | 453720    |
| K-DGK KLT-1900-1280/2 | 1,900                      | 1,280        | 600      | 453730    |
| K-DGK KLT-2100-0880/1 | 2,100                      | 880          | 350      | 453740    |
| K-DGK KLT-2100-1080/1 | 2,100                      | 1,080        | 400      | 453750    |
| K-DGK KLT-2100-1280/1 | 2,100                      | 1,280        | 450      | 453760    |
| K-DGK KLT-2100-1280/2 | 2,100                      | 1,280        | 650      | 453770    |

## Key to order no.:

### K-DGK KLT-1300-1280/1

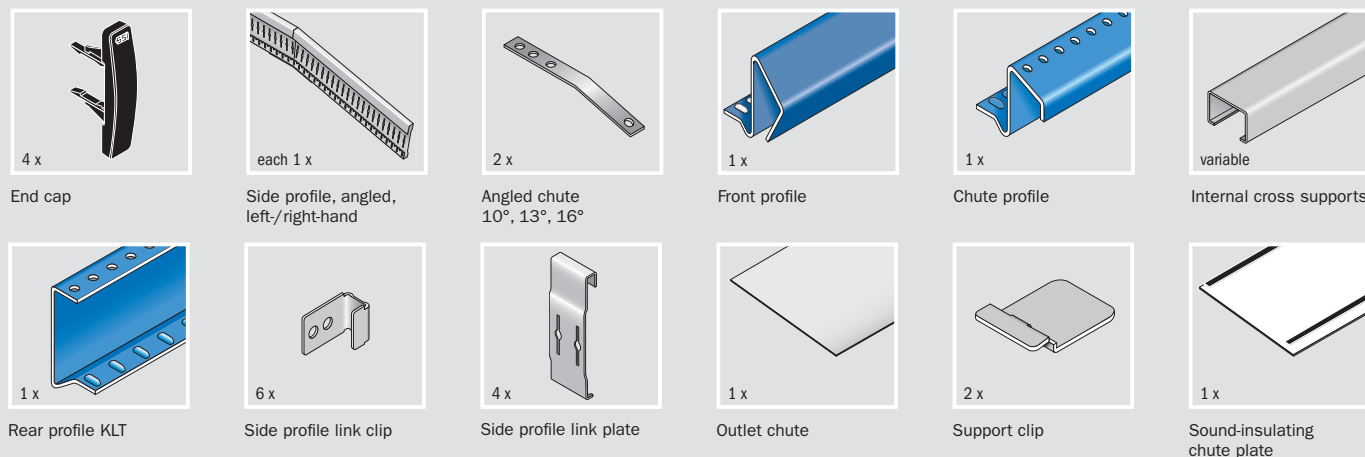


# Flow bed with angled front chute K-DK KLT for KLT containers



## Standard flow bed with angled chute

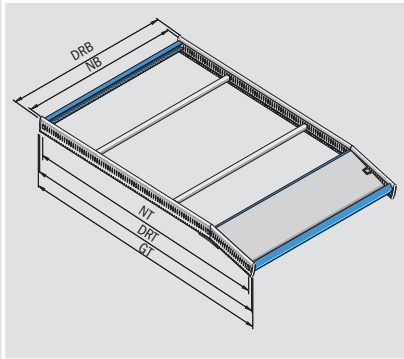
Flow bed consisting of:



### NOTE:

K-VS3 fixing kit is required for assembling the flow bed.  
The following items should also be ordered for the purpose of securing the flow beds:  
adjusting clip, anti-tip clip, outer slotted support; inner slotted support if required.

# Flow bed with angled front chute K-DK KLT for KLT containers



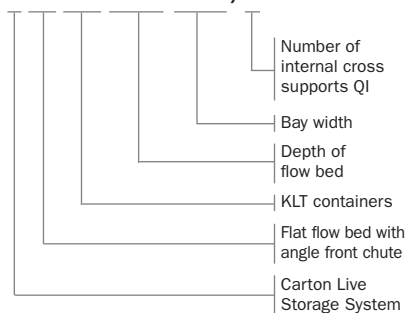
- DRB:** width of flow bed  
= bay width-2 mm
- NB:** working width  
= bay width-46 mm
- NT:** working depth = depth of flow bed  
DRT-86 mm
- GT:** overall depth of flow bed  
= depth of flow bed DRT+24 mm

## Complete flow bed with angled front chute K-DK KLT

| Item                 | Depth of flow bed (DRT) mm | Bay width mm | Load daN | Order no. |
|----------------------|----------------------------|--------------|----------|-----------|
| K-DK KLT-1300-0880/0 | 1,300                      | 880          | 250      | 454680    |
| K-DK KLT-1300-1080/0 | 1,300                      | 1,080        | 200      | 454690    |
| K-DK KLT-1300-1280/0 | 1,300                      | 1,280        | 300      | 454700    |
| K-DK KLT-1700-0880/0 | 1,700                      | 880          | 200      | 454710    |
| K-DK KLT-1700-1080/0 | 1,700                      | 1,080        | 250      | 454720    |
| K-DK KLT-1700-1280/0 | 1,700                      | 1,280        | 250      | 454730    |
| K-DK KLT-1700-1280/1 | 1,700                      | 1,280        | 500      | 454740    |
| K-DK KLT-1900-0880/1 | 1,900                      | 880          | 300      | 454750    |
| K-DK KLT-1900-1080/1 | 1,900                      | 1,080        | 350      | 454760    |
| K-DK KLT-1900-1280/1 | 1,900                      | 1,280        | 400      | 454770    |
| K-DK KLT-1900-1280/2 | 1,900                      | 1,280        | 600      | 454780    |
| K-DK KLT-2100-0880/1 | 2,100                      | 880          | 350      | 454790    |
| K-DK KLT-2100-1080/1 | 2,100                      | 1,080        | 400      | 454800    |
| K-DK KLT-2100-1280/1 | 2,100                      | 1,280        | 450      | 454810    |
| K-DK KLT-2100-1280/2 | 2,100                      | 1,280        | 650      | 454820    |

### Key to order no.:

#### K-DK KLT-1300-1280/1



# KDR Carton Live Storage System – ESD version

## The rack with no electrostatic charging, in accordance with ESD guidelines

The Carton Live Storage System, designed to comply with ESD guidelines, is used to store sensitive electronic components that could be damaged by electrostatic charging.

The system satisfies these requirements when an ESD-compliant floor is installed.

### ► Ordering

When ordering an ESD version an -E must be added to the article numbers for all flow beds.

#### Example:

Straight flow bed without ESD design

**K-D-2500-1800/3**

Straight flow bed with ESD design

**K-D-2500-1800/3-E**

All other technical data is the same (pages 22 – 33 and 38 – 43).

### ► Galvanised

All flow bed modular components are galvanised. This gives them an especially abrasion-proof surface and good conductivity.

### ► Note

The Carton Live Storage System must be inspected by an in-house expert before commissioning to ensure it provides the required ESD properties.

### ► Recommendation

Dirt, oil, grease and conversion work can all affect the ESD properties. The Carton Live Storage System should therefore be inspected at regular intervals by an in-house expert.

► **Quality tested and certified**  
by  
TÜV Rheinland



Rear  
(loading side)

Reinforcing  
cross beam

Pages 10/12/14

Guide rails

Page 54

ESD roller track

Page 53

Side profile

Page 47

Frame

Pages 8 – 14

Anti-tip clip

Pages 55/56

Variable  
accessories

Page 51

Flow beds with  
angled front chute

Pages 31 – 34

Flat flow bed with  
front chute

Pages 27 – 30

Flat flow bed

Pages 23 – 26

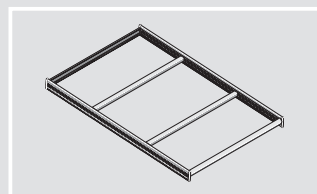
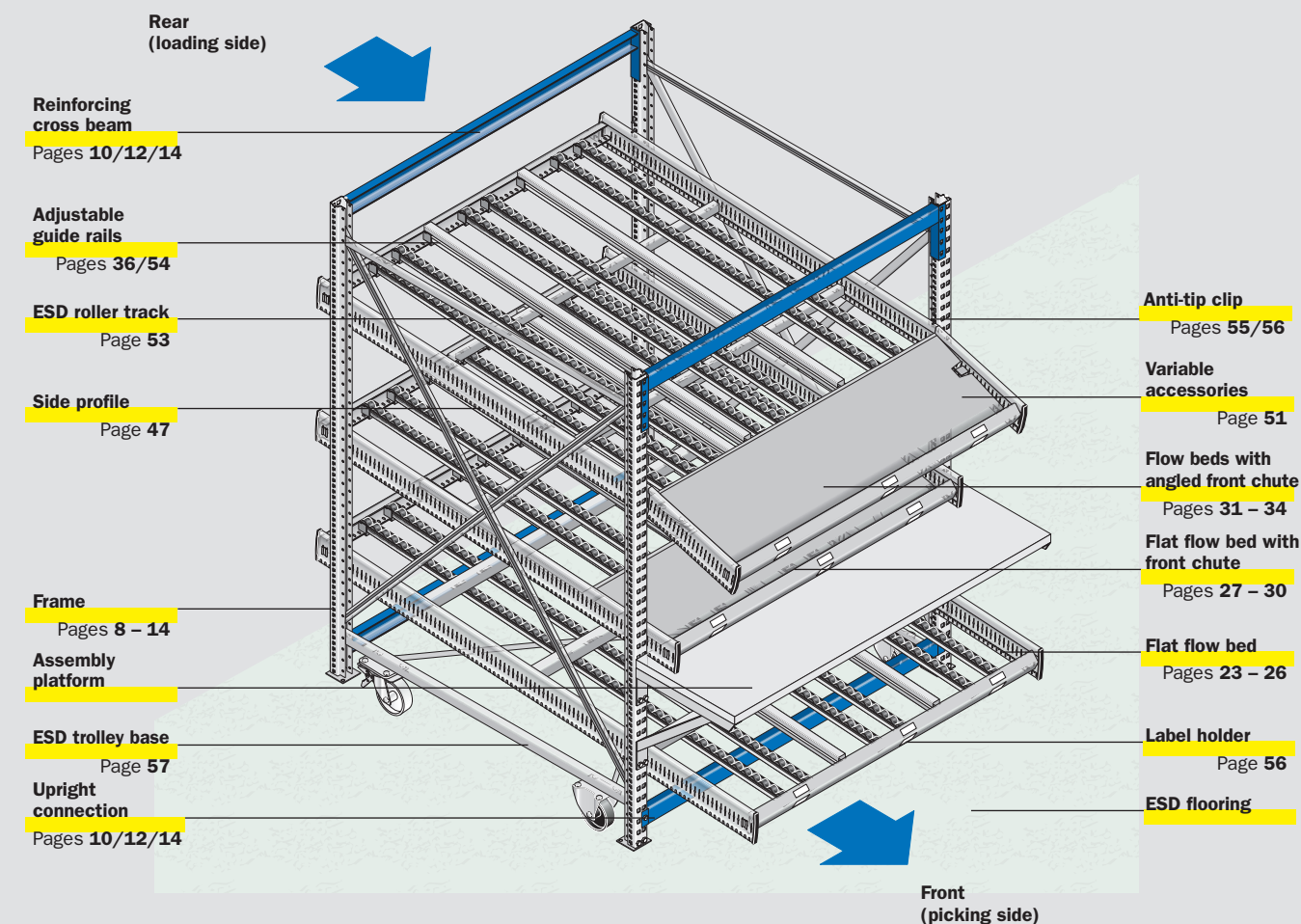
Label holder

Page 56

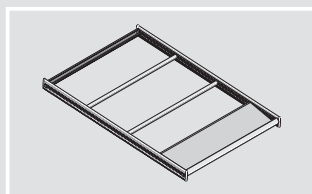
Front  
(picking side)



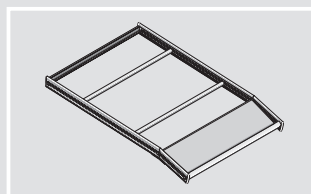
# KDR Carton Live Storage System – ESD version for KLT containers



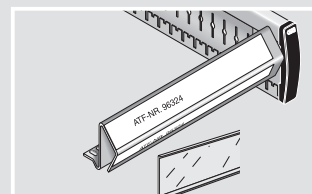
Flat flow bed



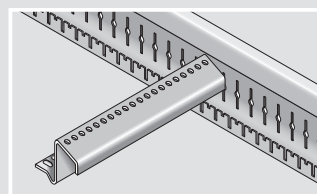
Flat flow bed with front chute



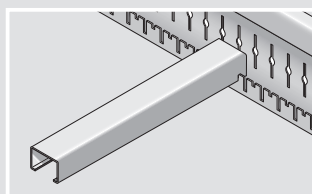
Flow bed with angled front chute



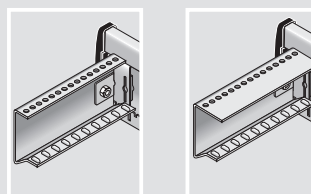
Front profile



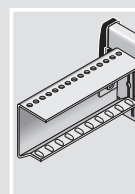
Chute profile



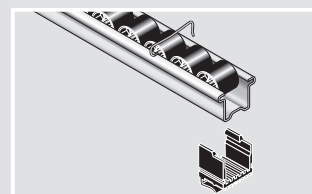
Cross support



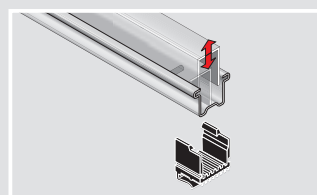
Galvanised rear cross beam



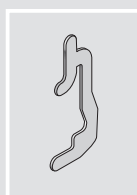
Galvanised KLT rear cross beam



ESD roller track with expanding lock and ESD docking clip



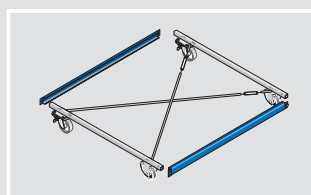
Retractable guide rails with ESD docking clip



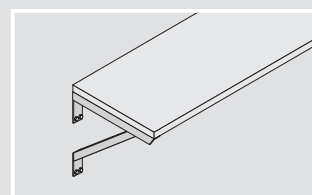
Anti-tip clip



End cap



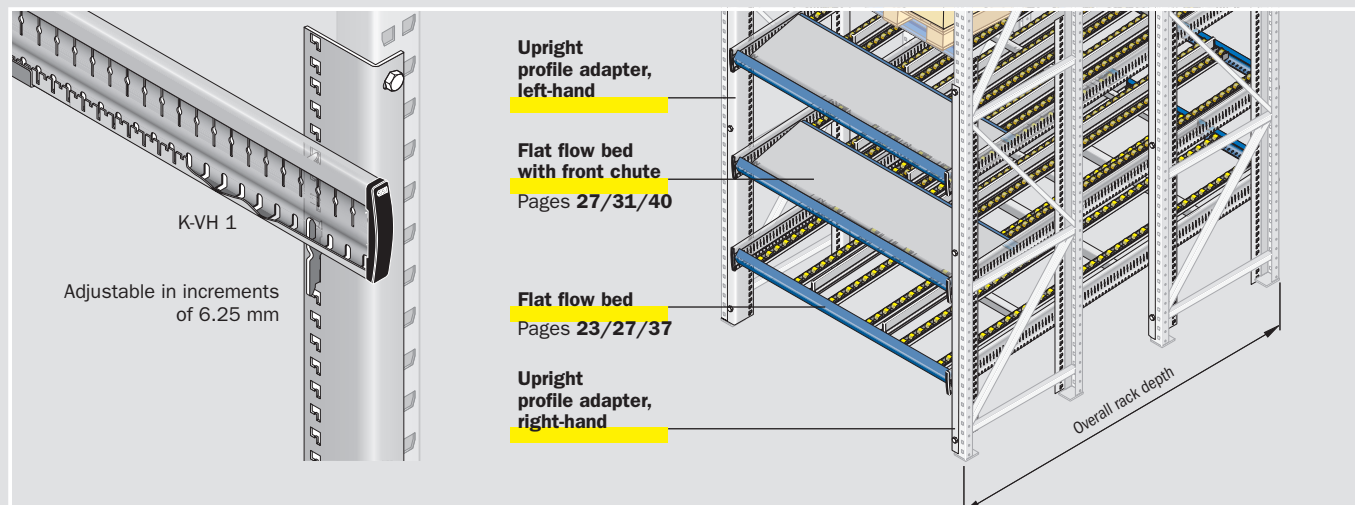
ESD castors on request



Work table on request

# KDR Carton Live Storage System – adapter solution

Combine your existing pallet racking with a live storage system



**Upright profile adapter, left-hand**

**Flat flow bed with front chute**  
Pages 27/31/40

**Flat flow bed**  
Pages 23/27/37

**Upright profile adapter, right-hand**

K-VH 1

Adjustable in increments of 6.25 mm

Overall rack depth

Fit KDR flow beds to your existing pallet racking to obtain all the operating advantages of a live storage system:

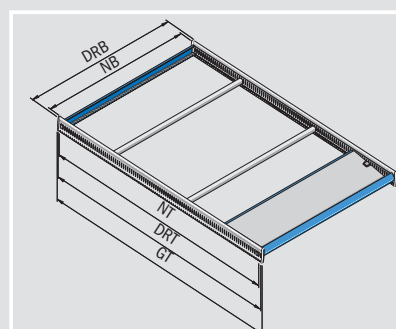
- Shorter routing and time savings
- Improved ergonomics and faster access
- Comprehensive product range
- Automatic stock tracking
- “First-in-first-out”
- Separate loading procedures and order handling

**Upright profile adapters, galvanised**

The holes in the upright profile adapters must match the existing pallet racking upright profile.  
**Articles supplied on request.**

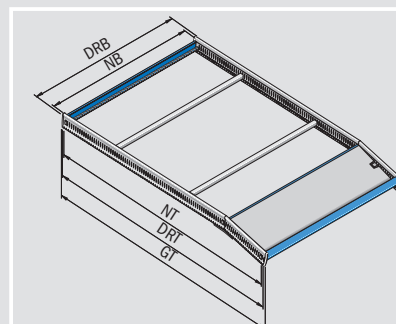
Please give the following dimensions when ordering:

| Dimensions | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) |
|------------|--------|--------|--------|--------|--------|--------|--------|
|            |        |        |        |        |        |        |        |



## Flat /angled material handling flow bed K-SD ...

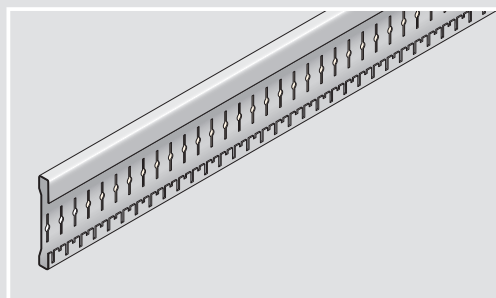
| Item              | Overall depth of frame $T_4$ (mm) | Bay width mm | Overall flow bed depth DRT (mm) | Load daN | Order no. |
|-------------------|-----------------------------------|--------------|---------------------------------|----------|-----------|
| K-S D-2400-2690/2 | 2,350                             | 2,700        | 2,400                           | 470      | 456810    |
| K-S D-2400-2690/4 | 2,350                             | 2,700        | 2,400                           | 790      | 456820    |
| K-S D-2400-2690/6 | 2,350                             | 2,700        | 2,400                           | 1,100    | 456830    |



## Flat /angled material handling flow bed K-SD GK ...

| Item                  | Overall depth of frame $T_3$ (mm) | Bay width mm | Overall flow bed depth DRT (mm) | Load daN | Order no. |
|-----------------------|-----------------------------------|--------------|---------------------------------|----------|-----------|
| K-S DGK-2400-2690/1-V | 2,350                             | 2,700        | 2,400                           | 380      | 457320    |
| K-S DGK-2400-2690/3-V | 2,350                             | 2,700        | 2,400                           | 770      | 457330    |
| K-S DGK-2400-2690/5-V | 2,350                             | 2,700        | 2,400                           | 1,140    | 457340    |

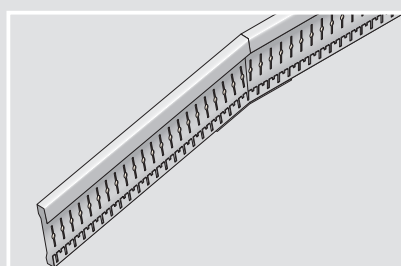
# Flow bed modular components



## Side profile, flat K-SW

Can be fitted on either right- or left-hand side. Finish: galvanised.

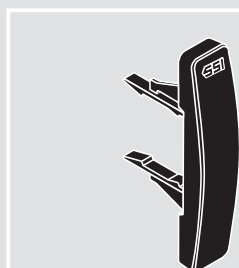
| Item      | Depth flow bed (DRT) mm | Order no. |
|-----------|-------------------------|-----------|
| K-SW-1300 | 1,300                   | 400240    |
| K-SW-1700 | 1,700                   | 400400    |
| K-SW-1900 | 1,900                   | 400480    |
| K-SW-2100 | 2,100                   | 400560    |
| K-SW-2500 | 2,500                   | 400720    |
| K-SW-3100 | 3,100                   | 400960    |



## Side-profile, angled K-SW K

In right- or left-hand configuration. Finish: galvanised.

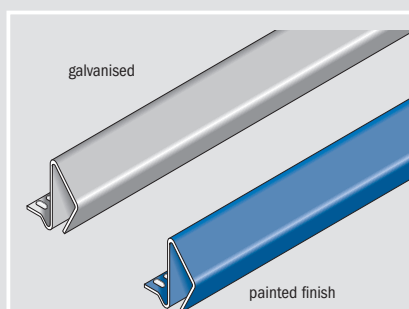
| Item right-hand | Depth flow bed (DRT) mm | Order no. | Item left-hand | Order no. |
|-----------------|-------------------------|-----------|----------------|-----------|
| K-SW K-R-1300   | 1,300                   | 401970    | K-SW K-L-1300  | 403700    |
| K-SW K-R-1700   | 1,700                   | 402130    | K-SW K-L-1700  | 403860    |
| K-SW K-R-1900   | 1,900                   | 402210    | K-SW K-L-1900  | 403940    |
| K-SW K-R-2100   | 2,100                   | 402290    | K-SW K-L-2100  | 404020    |
| K-SW K-R-2500   | 2,500                   | 402450    | K-SW K-L-2500  | 404180    |
| K-SW K-R-3100   | 3,100                   | 402690    | K-SW K-L-3100  | 404420    |



## End cap

Black plastic.

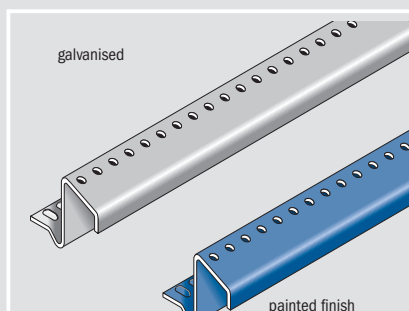
| Item          | Order no. |
|---------------|-----------|
| K-AK1 End cap | 2009602   |



## Front profile K-QV

Standard profile section with end-stop. Finish: galvanised or blue (RAL 5010).

| Item galvanised | Bay width mm | Order no. | Item RAL 5010 | Order no. |
|-----------------|--------------|-----------|---------------|-----------|
| K-QV-0880-V     | 880          | 419539    | K-QV-0880     | 419530    |
| K-QV-1080-V     | 1,080        | 419739    | K-QV-1080     | 419730    |
| K-QV-1280-V     | 1,280        | 419939    | K-QV-1280     | 419930    |
| K-QV-1350-V     | 1,350        | 420009    | K-QV-1350     | 420000    |
| K-QV-1800-V     | 1,800        | 420459    | K-QV-1800     | 420450    |
| K-QV-2200-V     | 2,200        | 420859    | K-QV-2200     | 420850    |
| K-QV-2700-V     | 2,700        | 421359    | K-QV-2700     | 421350    |

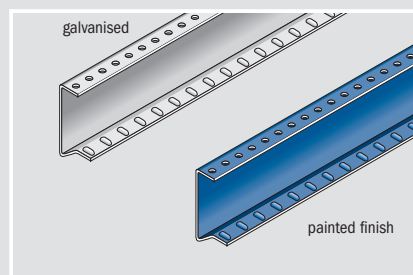


## Chute profile K-QK

For use on outlet chutes; for fixing roller tracking guides to outlet-chutes. Finish: galvanised or blue (RAL 5010).

| Item galvanised | Bay width mm | Order no. | Item RAL 5010 | Order no. |
|-----------------|--------------|-----------|---------------|-----------|
| K-QK-0880-V     | 880          | 411709    | K-QK-0880     | 411700    |
| K-QK-1080-V     | 1,080        | 411909    | K-QK-1080     | 411900    |
| K-QK-1280-V     | 1,280        | 412109    | K-QK-1280     | 412100    |
| K-QK-1350-V     | 1,350        | 412179    | K-QK-1350     | 412170    |
| K-QK-1800-V     | 1,800        | 412629    | K-QK-1800     | 412620    |
| K-QK-2200-V     | 2,200        | 413029    | K-QK-2200     | 413020    |
| K-QK-2700-V     | 2,700        | 413529    | K-QK-2700     | 413520    |

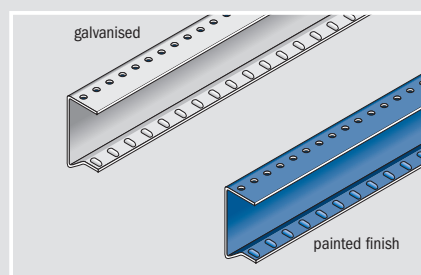
# Flow bed modular components



## Rear profile K-QH

Standard profile section with wide lower edge for track support.  
Finish: galvanised or blue (RAL 5010).

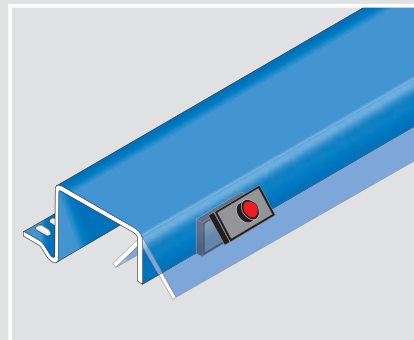
| Item galvanised | Bay width mm | Order no. | Item RAL 5010 | Order no. |
|-----------------|--------------|-----------|---------------|-----------|
| K-QH-1350-V     | 880          | 406959    | K-QH-1350     | 406950    |
| K-QH-1800-V     | 1,080        | 407409    | K-QH-1800     | 407400    |
| K-QH-2200-V     | 1,280        | 407809    | K-QH-2200     | 407800    |
| K-QH-2700-V     | 1,350        | 408309    | K-QH-2700     | 408300    |



## Rear profile KLT K-QH-KLT

With lengthened upper edge. Ensures that the KLT container on the track does not become jammed. Finish: galvanised or blue (RAL 5010).

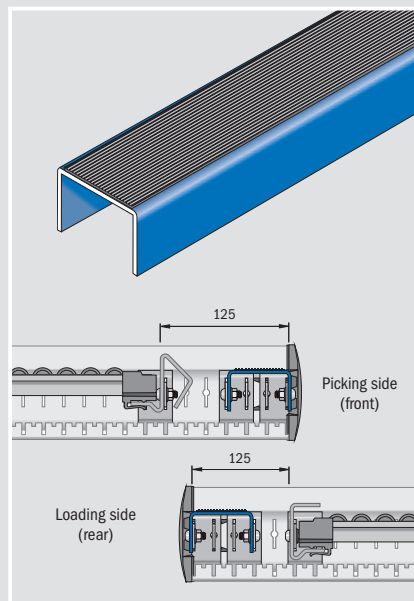
| Item galvanised | Bay width mm | Order no. | Item RAL 5010 | Order no. |
|-----------------|--------------|-----------|---------------|-----------|
| K-QH-KLT-0880-V | 880          | 409099    | K-QH-KLT-0880 | 409090    |
| K-QH-KLT-1080-V | 1,080        | 409299    | K-QH-KLT-1080 | 409290    |
| K-QH-KLT-1280-V | 1,280        | 409499    | K-QH-KLT-1280 | 409490    |



## Front profile for pick-by-light K-QV-PBL

For attachment of a pick-by-light indicator. This profile can be supplied in three angled setting. Finish: blue (RAL 5010).

| Item          | Bay width mm | Order no. |
|---------------|--------------|-----------|
| K-QV-PBL-1350 | 1,350        | on req.   |
| K-QV-PBL-1800 | 1,800        | on req.   |
| K-QV-PBL-2200 | 2,200        | on req.   |
| K-QV-PBL-2700 | 2,700        | on req.   |



## Step profile K-QT for the loading and picking side

The step profile can be used on both sides – the loading and picking one. Bed side profiles will need to be extended. To prevent tipping the anti-tip clip (page 56) should be replaced and the bed side profile secured to the upright with nuts and bolts.

Front profile: this side will need to be extended by 125 mm.

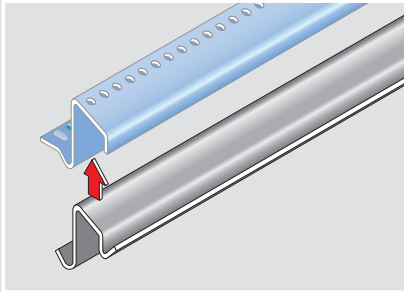
Rear profile: this side will need to be extended by 125 mm.

Finish: blue (RAL 5010).

| Item      | Bay width mm | Order no. |
|-----------|--------------|-----------|
| K-QT-1350 | 1,350        | on req.   |
| K-QT-1800 | 1,800        | on req.   |
| K-QT-2200 | 2,200        | on req.   |
| K-QT-2700 | 2,700        | on req.   |



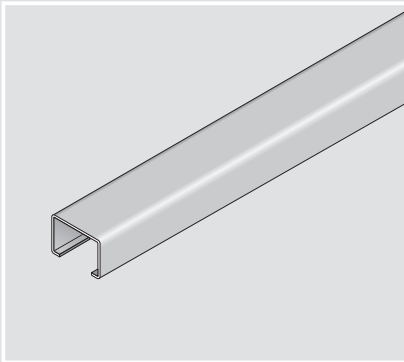
# Flow bed modular components



## Chute profile reinforcer K-QKV

This profile section can be used to provide extra reinforcement for wider, heavily-loaded flow beds. Finish: galvanised.

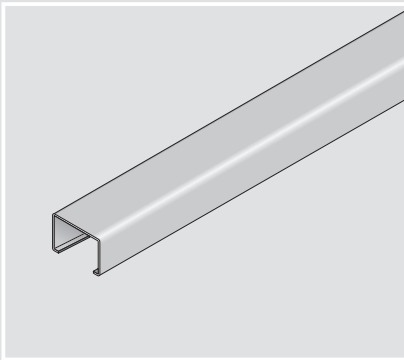
| Item       | Bay width<br>mm | Order no. |
|------------|-----------------|-----------|
| K-QKV-1350 | 1,350           | 414780    |
| K-QKV-1800 | 1,800           | 415230    |
| K-QKV-2200 | 2,200           | 415630    |
| K-QKV-2700 | 2,700           | 416130    |



## Internal cross support K-QI 40

Support for roller tracks. The load capacity of the flow bed is determined by the number of cross supports. Finish: galvanised.

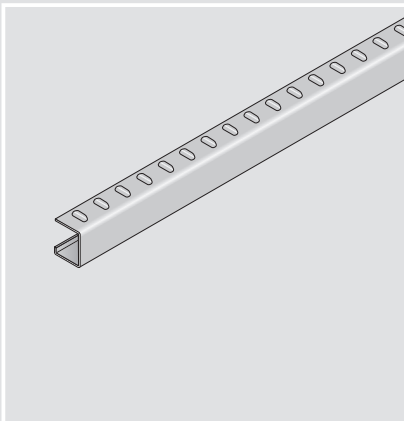
| Item         | Bay width<br>mm | Order no. |
|--------------|-----------------|-----------|
| K-QI 40-0880 | 880             | 422480    |
| K-QI 40-1080 | 1,080           | 422680    |
| K-QI 40-1280 | 1,280           | 422880    |
| K-QI 40-1350 | 1,350           | 422950    |
| K-QI 40-1800 | 1,800           | 423400    |
| K-QI 40-2200 | 2,200           | 423800    |
| K-QI 40-2700 | 2,700           | 424300    |



## Internal cross support K-QI 50 – heavy-duty configuration

Support for roller tracks. The load capacity of the flow beds is determined by the number of cross supports. Finish: galvanised.

| Item         | Bay width<br>mm | Order no. |
|--------------|-----------------|-----------|
| K-QI 50-0880 | 880             | 425090    |
| K-QI 50-1080 | 1,080           | 425290    |
| K-QI 50-1280 | 1,280           | 425490    |
| K-QI 50-1350 | 1,350           | 425560    |
| K-QI 50-1800 | 1,800           | 426010    |
| K-QI 50-2200 | 2,200           | 426410    |
| K-QI 50-2700 | 2,700           | 426910    |

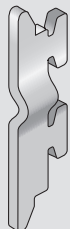


## Central cross support K-QM

In the case of large flow beds, this profile section – used in conjunction with fixing clips – can provide extra stability for the roller track and guide rails. Recommended for depths of over 3,100 mm for guide rails and over 4,100 mm for roller track.

| Item         | Bay width<br>mm | Order no. |
|--------------|-----------------|-----------|
| K-QI 50-0880 | 880             | 416920    |
| K-QI 50-1080 | 1,080           | 417120    |
| K-QI 50-1280 | 1,280           | 417320    |
| K-QI 50-1350 | 1,350           | 417390    |
| K-QI 50-1800 | 1,800           | 417840    |
| K-QI 50-2200 | 2,200           | 418240    |
| K-QI 50-2700 | 2,700           | 418740    |

# Flow bed modular components

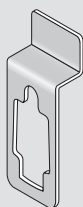


Upright profiles P 63 and P 65

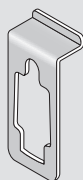
## Adjusting clip for upright profiles P 63 and P 65

The flow bed is height adjustable in increments of 6.25 mm, either by inserting the clip into the slot on the upright profiles, or by rotating the clip.  
Finish: galvanised.

| Item  | Order no.                                         |
|-------|---------------------------------------------------|
| K-VH1 | Adjusting clip for upright profiles P 63 and P 65 |
|       | 2009461                                           |



Outer slotted support

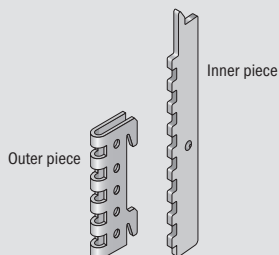


Inner slotted support

## Slotted support (outer and inner) for upright profile sections P 63 and P 65

Outer – for fitting to adjusting clip K-VH 1.  
Inner – for fitting to adjusting clip K-VH1 (on all flow beds marked \*).  
Finish: galvanised.

| Item  | Order no.             |
|-------|-----------------------|
| K-SA1 | Outer slotted support |
| K-SI1 | Inner slotted support |
|       | 2009462               |
|       | 2009618               |

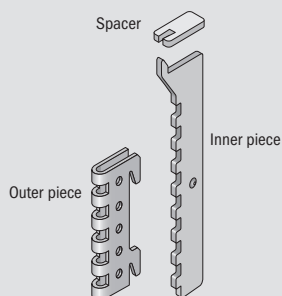


Upright profiles P 73 and P 93 / P 95

## Front adjusting clip, with outer and inner pieces for PR 600 frame

The flow bed is height adjustable in increments of 12.5 mm. The adjusting clip is inserted into the front upright profile and secured by engaging the flow bed with the clip. Finish: galvanised.

| Item  | Order no.                                         |
|-------|---------------------------------------------------|
| K-VH2 | Adjusting clip for upright profiles P 73 and P 93 |
|       | 439500                                            |



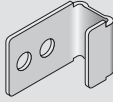
Upright profiles P 73 and P 93 / P 95

## Rear adjusting clip with outer and inner pieces and spacer for PR 600 frame

The flow bed is height adjustable in increments of 12.5 mm. The adjusting clip is inserted into the rear or centre upright profile. The wide design of the inner piece means that the lower set of adjusting slots in the flow bed is covered. Allows easy front to back adjustment of the flow bed enabling the creation of an ergonomic pick face. When used as an inner support, the spacer can be inserted in order to reduce the adjustment increments from 12.5 to 6.25 mm. Finish: galvanised.

| Item   | Order no.                                              |
|--------|--------------------------------------------------------|
| K-VH3  | Rear adjusting clip for upright profiles P 73 and P 93 |
| K-VH3D | Spacer                                                 |
|        | 439510                                                 |
|        | 442750                                                 |

# Flow bed modular components



## Cross profile link clip

Finish: galvanised.

| Item  | Order no. |
|-------|-----------|
| K-LQ1 | 2009458   |

Cross profile link clip

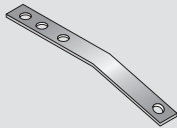


## Link plate side profile

Finish: galvanised.

| Item  | Order no. |
|-------|-----------|
| K-LV1 | 2009460   |

Link plate side profile

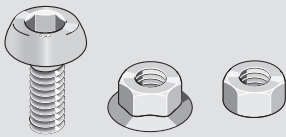


## Angled chute link plate 10°, 13°, 16°

Finish: galvanised.

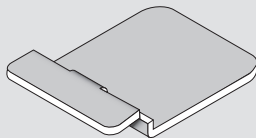
| Item  | Order no. |
|-------|-----------|
| K-LS1 | 2009459   |

Angled chute link plate



## Fixing set for flow beds

| Item  | Flow bed-type | Torx screw<br>DIN 7380 | Self-locking<br>Nut M8 | Nut M8<br>DIN 934 | Order no. |
|-------|---------------|------------------------|------------------------|-------------------|-----------|
| K-VS1 | Flat          | 4                      | 4                      | –                 | 439520    |
| K-VS2 | Front chute   | 6                      | 6                      | –                 | 439530    |
| K-VS3 | Angled chute  | 10                     | 6                      | 4                 | 439540    |

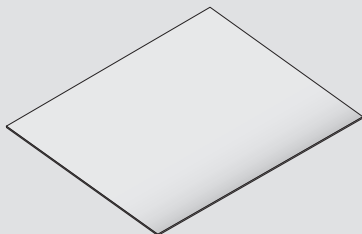


## Support clip

Finish: galvanised.

| Item  | Order no. |
|-------|-----------|
| K-VB1 | 2009949   |

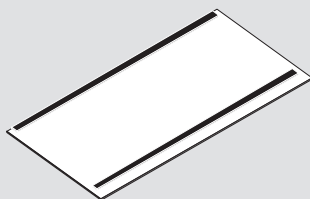
Support clip



## Outlet chute plate K-AB

Finish: galvanised.

| Item          | Bay width<br>mm | Depth of outlet<br>chute mm | Section width<br>mm | Section<br>depth mm | Order no. |
|---------------|-----------------|-----------------------------|---------------------|---------------------|-----------|
| K-AB-0880-450 | 880             | 450                         | 852                 | 443                 | 443350    |
| K-AB-1080-450 | 1,080           | 450                         | 1,052               | 443                 | 443550    |
| K-AB-1280-450 | 1,280           | 450                         | 1,252               | 443                 | 443750    |
| K-AB-1350-450 | 1,350           | 450                         | 1,322               | 443                 | 443820    |
| K-AB-1800-450 | 1,800           | 450                         | 1,772               | 443                 | 444270    |
| K-AB-2200-450 | 2,200           | 450                         | 2,172               | 443                 | 444670    |
| K-AB-2700-450 | 2,700           | 450                         | 2,672               | 443                 | 445170    |



## Sound-insulating outlet chute plate K-SDA

Sound insulation material is supplied on a roll. Please give the total number of metres required when ordering.

| Item          | Calculation of total meterage          | Order no. |
|---------------|----------------------------------------|-----------|
| K-AB-0880-450 | Belt length = (Bay width – 100 mm) x 2 | 2009616   |

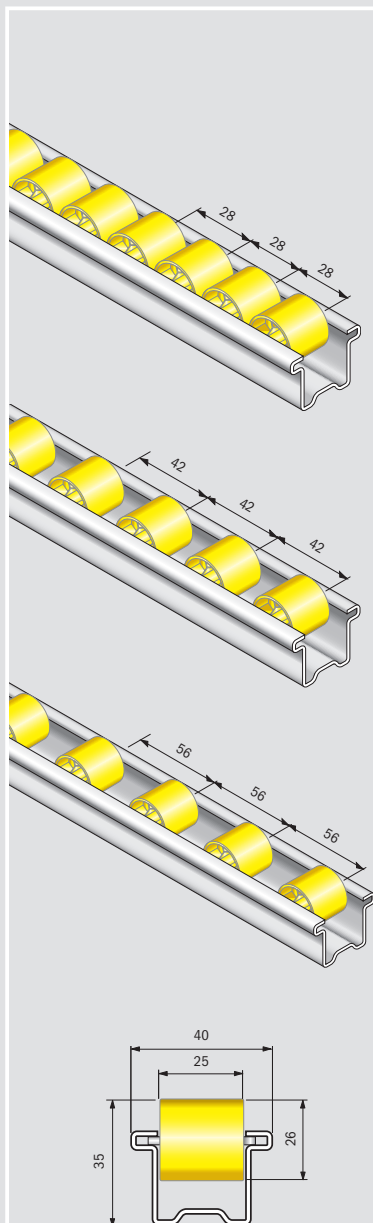
Example: (1,350 – 100 mm) x 2 = 2,500 mm

# Roller track

## Roller track:

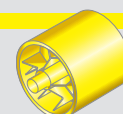
SSI SCHAEFER roller track consists of a rigid profile with anti-stretch reinforcement, made of galvanised sheet steel. The tracks are fitted with robust, smooth-running rollers made of high quality plastic. Roller pitchings 28, 42 and 56 mm.

- Minimum roller pitching and wide running surfaces deliver optimum load distribution
- Corrugated reinforcement sections prevent the rails distorting, thus ensuring that the rollers run true and items are handled smoothly
- High load capacity of 5 kg per roller; optional available: 12 kg with steel axles
- Rigid roller track profile with robust anti-stretch reinforcement to prevent rollers from being dislodged
- Can also be used at sub-zero temperatures (down to -30°C)
- Long service life – with roller performance guaranteed for five years



### Roller track equipment: rollers with plastic axle

High load capacity of 5 kg per roller.  
Roller track can also be supplied by the metre.



#### Flat flow bed, roller pitch 28 mm

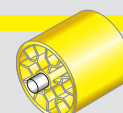
| Item        | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-------------|----------------------------|-----------------|-----------|
| K-R28K-1245 | 1,300                      | 1,245           | 428420    |
| K-R28K-1645 | 1,700                      | 1,645           | 428580    |
| K-R28K-1845 | 1,900                      | 1,845           | 428660    |
| K-R28K-2045 | 2,100                      | 2,045           | 428740    |
| K-R28K-2445 | 2,500                      | 2,445           | 428900    |
| K-R28K-3045 | 3,100                      | 3,045           | 429140    |

#### Flat flow bed with front chute/flow bed with angled chute, roller pitch 28 mm

| Item        | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-------------|----------------------------|-----------------|-----------|
| K-R28K-0770 | 1,300                      | 770             | 428230    |
| K-R28K-1170 | 1,700                      | 1,170           | 428390    |
| K-R28K-1370 | 1,900                      | 1,370           | 428470    |
| K-R28K-1570 | 2,100                      | 1,570           | 428550    |
| K-R28K-1970 | 2,500                      | 1,970           | 428710    |
| K-R28K-2570 | 3,100                      | 2,570           | 429950    |

### Roller track equipment: rollers with steel axle

High load capacity of 12 kg per roller.  
Roller track can also be supplied by metre.



#### Flat flow bed, roller pitch 28 mm

| Item        | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-------------|----------------------------|-----------------|-----------|
| K-R28S-1245 | 1,300                      | 1,245           | 434150    |
| K-R28S-1645 | 1,700                      | 1,645           | 434310    |
| K-R28S-1845 | 1,900                      | 1,845           | 434390    |
| K-R28S-2045 | 2,100                      | 2,045           | 434470    |
| K-R28S-2445 | 2,500                      | 2,445           | 434630    |
| K-R28S-3045 | 3,100                      | 3,045           | 434870    |

#### Flat flow bed with front chute/flow bed with angled chute, roller pitch 28 mm

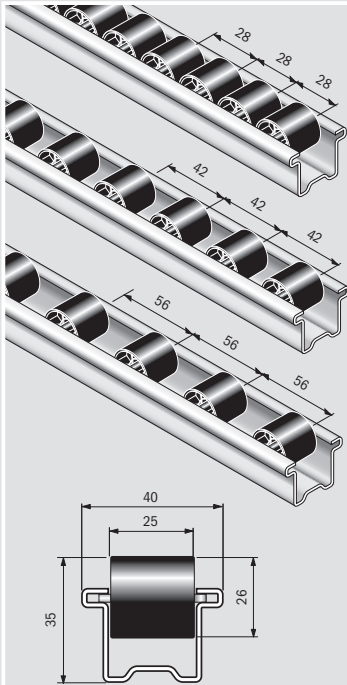
| Item        | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-------------|----------------------------|-----------------|-----------|
| K-R28S-0770 | 1,300                      | 770             | 433960    |
| K-R28S-1170 | 1,700                      | 1,170           | 434120    |
| K-R28S-1370 | 1,900                      | 1,370           | 434200    |
| K-R28S-1570 | 2,100                      | 1,570           | 434280    |
| K-R28S-1970 | 2,500                      | 1,970           | 434440    |
| K-R28S-2570 | 3,100                      | 2,570           | 434680    |



► **Roller pitch 42 mm and 56 mm**  
with plastic/steel axle on request.

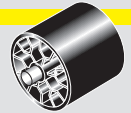


# Roller track



## Roller track equipment: antistatic rollers with steel axle

ESD roller tracks are equipped with antistatic rollers in black. They are primarily used in shelving systems to store electronic components. High load-bearing capacity of 12 kg per roller. Roller track also available by the metre.

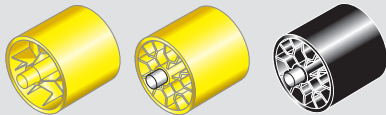


### Flat flow bed, roller pitch 28 mm

| Item            | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-----------------|----------------------------|-----------------|-----------|
| K-R28S-1245-ESD | 1,300                      | 1,245           | 474520    |
| K-R28S-1645-ESD | 1,700                      | 1,645           | 474680    |
| K-R28S-1845-ESD | 1,900                      | 1,845           | 474780    |
| K-R28S-2045-ESD | 2,100                      | 2,045           | 474840    |
| K-R28S-2445-ESD | 2,500                      | 2,445           | 475000    |
| K-R28S-3045-ESD | 3,100                      | 3,045           | 475240    |

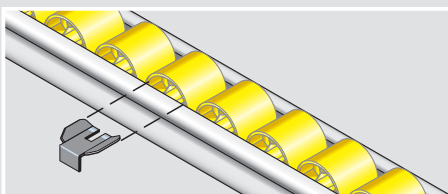
### Flat flow bed with front chute/flow bed with angled chute, roller pitch 28 mm

| Item            | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-----------------|----------------------------|-----------------|-----------|
| K-R28S-0770-ESD | 1,300                      | 770             | 474330    |
| K-R28S-1170-ESD | 1,700                      | 1,170           | 474490    |
| K-R28S-1370-ESD | 1,900                      | 1,370           | 474570    |
| K-R28S-1570-ESD | 2,100                      | 1,570           | 474650    |
| K-R28S-1970-ESD | 2,500                      | 1,970           | 474810    |
| K-R28S-2570-ESD | 3,100                      | 2,570           | 475050    |



## Individual rollers

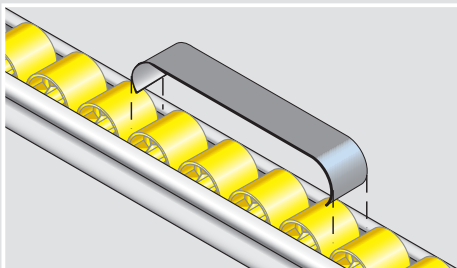
| Item       |                                                                             | Order no. |
|------------|-----------------------------------------------------------------------------|-----------|
| K-ERK1     | Cylindrical roller with plastic axle, load capacity 5 kg/roller             | 442760    |
| K-ERS2     | Cylindrical roller with steel axle, load capacity 12 kg/roller              | 442770    |
| K-ERS2-ESD | Cylindrical roller with steel axle, ESD version, load capacity 12 kg/roller | on req.   |



## Braking clip

The braking clip is used to isolate individual rollers. This provides a gentle braking action.

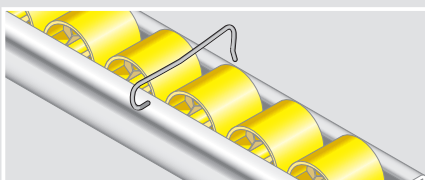
| Item  |              | Order no. |
|-------|--------------|-----------|
| K-BC1 | Braking clip | 442780    |



## Braking strip

The 100 mm long braking strip is clamped on top of a series of rollers to produce a stronger braking effect than that exercised by a clip. It can be used with roller pitches of 28, 33, 42 and 56 mm.

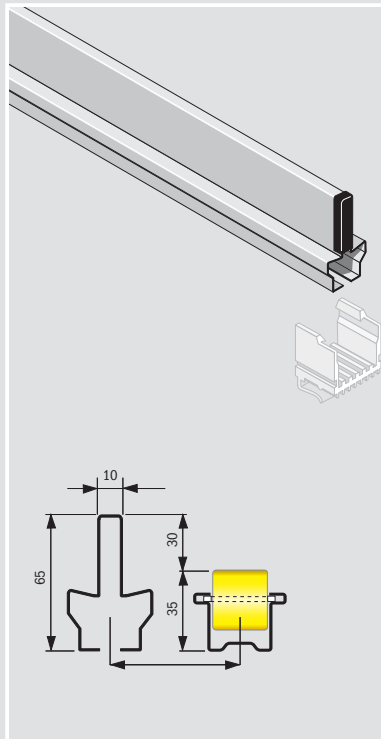
| Item       |                                                    | Order no. |
|------------|----------------------------------------------------|-----------|
| K-BB1      | Braking strip, for roller pitch of 28 mm and 42 mm | 99210     |
| BB         | Braking strip, for roller pitch of 33 mm           | 26391     |
| on request | Braking strip, for roller pitch of 56 mm           | on req.   |



## Spring clip

| Item  |             | Order no. |
|-------|-------------|-----------|
| K-SP1 | Spring clip | 2009387   |

# Guide rails



## Standard guide rails

This elements, which are made of galvanised steel, prevent two adjacent storage items from colliding as they run through the system. They can be adjusted in increments of 5.0 mm and are fitted with protective end caps at each end.

### For flat flow beds

| Item incl. end caps | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|---------------------|----------------------------|-----------------|-----------|
| K-TL-1230           | 1,300                      | 1,230           | 446290    |
| K-TL-1630           | 1,700                      | 1,630           | 446610    |
| K-TL-1830           | 1,900                      | 1,830           | 446770    |
| K-TL-2030           | 2,100                      | 2,030           | 446930    |
| K-TL-2430           | 2,500                      | 2,430           | 447250    |
| K-TL-3030           | 3,100                      | 3,030           | 447730    |

### For flat flow beds with front chute/ flow beds with angled front chute

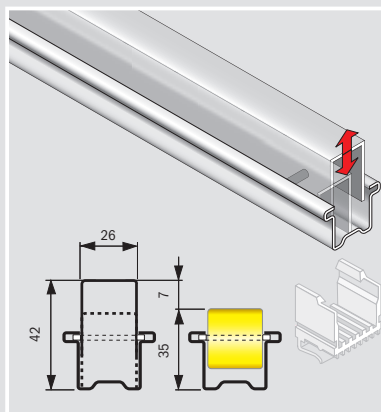
| Item incl. end caps | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|---------------------|----------------------------|-----------------|-----------|
| K-TLK-0746          | 1,300                      | 746             | 445915    |
| K-TLK-1164          | 1,700                      | 1,164           | 446235    |
| K-TLK-1364          | 1,900                      | 1,364           | 446395    |
| K-TLK-1564          | 2,100                      | 1,564           | 446555    |
| K-TLK-1964          | 2,500                      | 1,964           | 446875    |
| K-TLK-2564          | 3,100                      | 2,564           | 447355    |

### For flat KLT flow beds

| Item incl. end caps | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|---------------------|----------------------------|-----------------|-----------|
| K-TL-KLT-1212       | 1,300                      | 1,212           | 446280    |
| K-TL-KLT-1612       | 1,700                      | 1,612           | 446600    |
| K-TL-KLT-1812       | 1,900                      | 1,812           | 446760    |
| K-TL-KLT-2012       | 2,100                      | 2,012           | 446920    |
| K-TL-KLT-2412       | 2,500                      | 2,412           | 447240    |
| K-TL-KLT-3012       | 3,100                      | 3,012           | 447720    |

### For KLT flat flow beds with front chute/ KLT flow beds with angled front chute

| Item incl. end caps | Depth of flow beds (DRT) mm | Track length mm | Order no. |
|---------------------|-----------------------------|-----------------|-----------|
| K-TLK-KLT-0746      | 1,300                       | 746             | 445905    |
| K-TLK-KLT-1164      | 1,700                       | 1,164           | 446225    |
| K-TLK-KLT-1364      | 1,900                       | 1,364           | 446385    |
| K-TLK-KLT-1564      | 2,100                       | 1,564           | 446545    |
| K-TLK-KLT-1964      | 2,500                       | 1,964           | 446865    |
| K-TLK-KLT-2564      | 3,100                       | 2,564           | 447345    |



## Adjustable guide rails

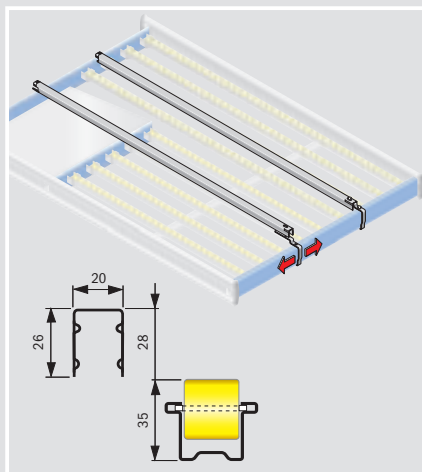
For universal operation with KLT containers.  
Finish: galvanised.

### For flat flow beds

| Item      | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-----------|----------------------------|-----------------|-----------|
| K-VT-1245 | 1,300                      | 1,245           | 451410    |
| K-VT-1645 | 1,700                      | 1,645           | 451570    |
| K-VT-1845 | 1,900                      | 1,845           | 451650    |
| K-VT-2045 | 2,100                      | 2,045           | 451730    |
| K-VT-2445 | 2,500                      | 2,445           | 451890    |

### For KLT flat flow beds with front chute/ KLT flow beds with angled front chute

| Item       | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|------------|----------------------------|-----------------|-----------|
| K-VTK-0770 | 1,300                      | 770             | 451220    |
| K-VTK-1170 | 1,700                      | 1,170           | 451380    |
| K-VTK-1370 | 1,900                      | 1,370           | 451460    |
| K-VTK-1570 | 2,100                      | 1,570           | 451540    |
| K-VTK-1970 | 2,500                      | 1,970           | 451700    |



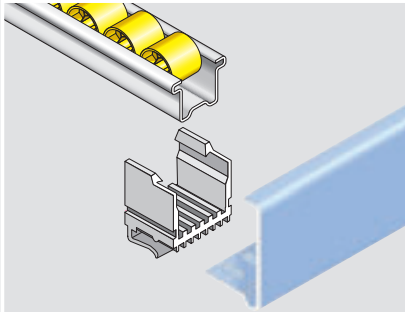
## Multiple separator strips

Multiple separator strips are horizontally adjustable in increments of 10 mm, without affecting the position of the roller tracks. Ideal for use with a roller carpet flow bed with frequent changes of stored items.  
Finish: galvanised.

### For flat flow beds/flat flow beds with front chutes

| Item      | Depth of flow bed (DRT) mm | Track length mm | Order no. |
|-----------|----------------------------|-----------------|-----------|
| K-MT-1300 | 1,300                      | 1,223           | 449500    |
| K-MT-1700 | 1,700                      | 1,623           | 449660    |
| K-MT-1900 | 1,900                      | 1,823           | 449740    |
| K-MT-2100 | 2,100                      | 2,023           | 449820    |
| K-MT-2500 | 2,500                      | 2,423           | 449980    |

# Accessories

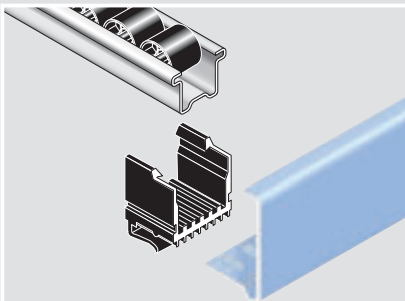


## Fixing clip – plastic

Fixing clips are used for securing both – roller tracks and guide rails – to the front and back profile sections of the flow bed. The advantages of this fixing method are:

- Bolt free lane-width adjustment in steps of 5.0 mm
- Stable attachment of roller tracks and guide rails
- Fast and easy readjustment of lane-widths

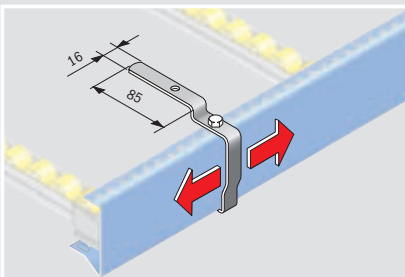
| Item               | Order no. |
|--------------------|-----------|
| K-RK   Fixing clip | 2009603   |



## Fixing clip ESD version – plastic

The ESD version of the docking clip in conjunction with the galvanised modular flow bed components and conductive roller tracks satisfies ESD guidelines. Design identical to standard docking clip in all other respects.

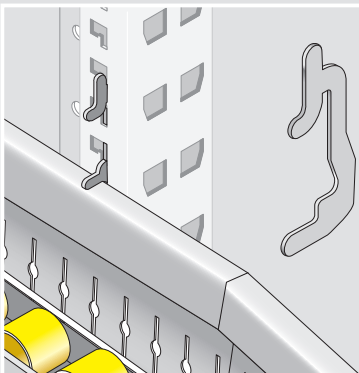
| Item                   | Order no. |
|------------------------|-----------|
| K-RK-ESD   Fixing clip | 2016679   |



## Loading guide

Loading guides, which are horizontally adjustable in steps of 10 mm, are attached to the replenishment face in order to provide additional guidance for flanged rollers. They ensure extremely fast lane-width adjustment when only rollers are used. Finish: galvanised.

| Item                  | Order no. |
|-----------------------|-----------|
| K-EW1   Loading guide | 2009950   |

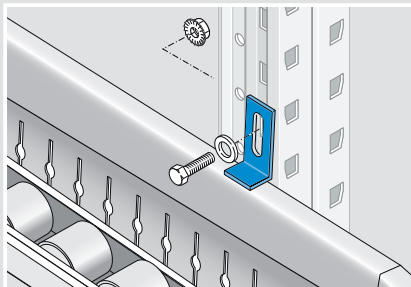


## Anti-tip clip for upright profiles P 63 and P 65

This slot-in anti-tip clip protects the flow bed from tipping when oversized items are being handled. Finish: galvanised.

| Item                   | Order no. |
|------------------------|-----------|
| K-AHS1   Anti-tip clip | 2009619   |

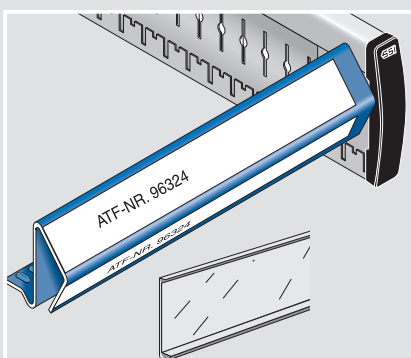
# Accessories



## Anti-tip clip for upright profiles P 73, P 93 and P 95

This slot-in anti-tip clip protects the flow bed from tipping when oversized items are being handled. Finish: galvanised.

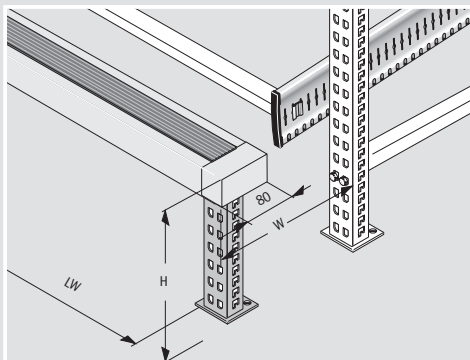
| Item                | Order no. |
|---------------------|-----------|
| K-AHS Anti-tip clip | 442755    |



## Label holder

Self-adhesive label holder made of plastic, total height 33 mm, for the clear and practical identification of each storage area. Suitable for labels measuring up to 30 mm in height.

| Item      | Bay width mm | Length mm | Order no. |
|-----------|--------------|-----------|-----------|
| K-EH-0880 | 880          | 780       | 442518    |
| K-EH-1080 | 1,080        | 980       | 442538    |
| K-EH-1280 | 1,280        | 1,180     | 442558    |
| K-EH-1350 | 1,350        | 1,250     | 442565    |
| K-EH-1800 | 1,800        | 1,700     | 442610    |
| K-EH-2200 | 2,200        | 2,100     | 442650    |
| K-EH-2700 | 2,700        | 2,600     | 442700    |



## Step, configuration A

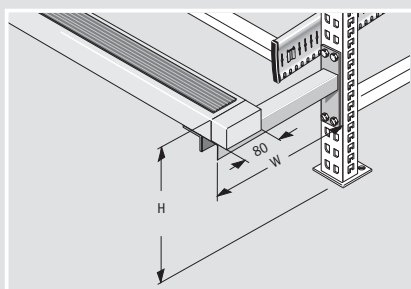
A step allows to reach even higher shelves without difficulty. The step, which has an anti-slip surface, can be adjusted to three different heights. The final length (LW variable) is adjusted to the desired total rack length. Standard length: 1,800 mm. Finish: blue (RAL 5010).

Please indicate a value for  $LW_{\text{variable}}$  when ordering:

$$LW_{\text{variable}} = \text{total length} - (n \times LW) - (n \times \text{upright profile width})$$

**Example:**  $LW_{\text{variable}} = 9,920 \text{ mm} - (5 \times 1,800) - (7 \times 60) = 500 \text{ mm}$

| Item                       | Order no. |
|----------------------------|-----------|
| K-TS1800 Step, LW 1,800 mm | on req.   |
| K-TS Step - variable       | on req.   |
| K-TF300 Step base          | on req.   |
| K-EK1 End cap              | on req.   |



## Step, configuration B

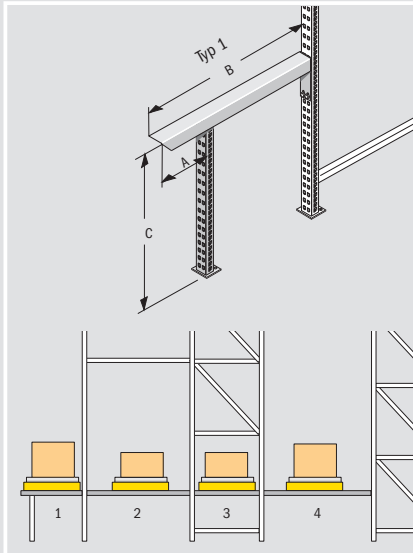
For attachment to the bay structure.

Finish: blue (RAL 5010).

When ordering, please indicate dimensions height, width and bay width.

| Item                                                     | Order no. |
|----------------------------------------------------------|-----------|
| on request Step for upright profiles P 63 and P 65       | on req.   |
| on request Step for upright profiles P 73 or P 93 / P 95 | on req.   |

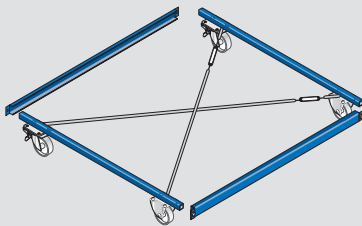
# Accessories



## Conveyor supports

Conveyor supports are bolted into the holes on the upright profile. Their flexible height adjustment (+40/-0 mm) allows optimum configuration. They are bolted to the frame and the floor. Dimensions A, B and C are variable. Please indicate these dimensions when ordering.

| Item       | Type                                                  | Order no. |
|------------|-------------------------------------------------------|-----------|
| on request | 1 Conveyor support for upright profiles P 63 and P 65 | on req.   |
| on request | 1 Conveyor support for upright profile P 73           | on req.   |
| on request | 1 Conveyor support for upright profiles P 93/P 95     | on req.   |
| on request | 2 Conveyor support for upright profiles P 63 and P 65 | on req.   |
| on request | 2 Conveyor support for upright profile P 73           | on req.   |
| on request | 2 Conveyor support for upright profiles P 93/P 95     | on req.   |
| on request | 3 Conveyor support for upright profiles P 63 and P 65 | on req.   |
| on request | 3 Conveyor support for upright profile P 73           | on req.   |
| on request | 3 Conveyor support for upright profiles P 93/P 95     | on req.   |
| on request | 4 Conveyor support for upright profiles P 63 and P 65 | on req.   |
| on request | 4 Conveyor support for upright profile P 73           | on req.   |
| on request | 4 Conveyor support for upright profiles P 93/P 95     | on req.   |



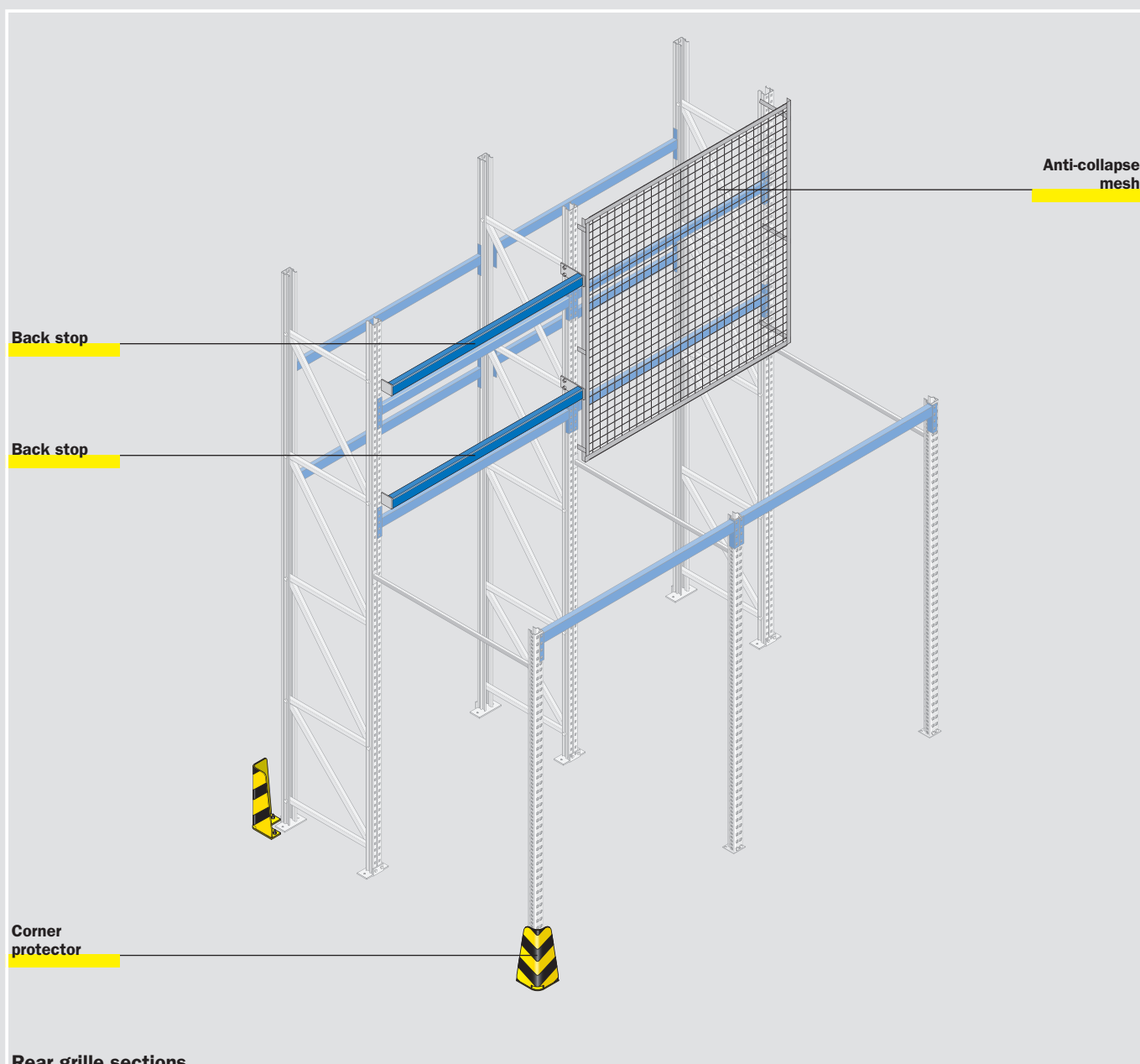
## Trolley base

For easy relocation of individual bays. Fitted with two fixed and two swivel castors with brakes. Load capacity per bay with trolley base: 1,600 kg. Finish: galvanised and blue (RAL 5010).

| Item standard      | Frame depth mm | Bay width mm | Order no. | Item ESD version       | Order no. |
|--------------------|----------------|--------------|-----------|------------------------|-----------|
| K-FWBG01-1250-0880 | 1,050          | 880          | 472300    | K-FWBG02-1250-0880-ESD | 476100    |
| K-FWBG01-1250-1080 | 1,050          | 1,080        | 472310    | K-FWBG02-1250-1080-ESD | 476110    |
| K-FWBG01-1250-1280 | 1,050          | 1,280        | 472320    | K-FWBG02-1250-1280-ESD | 476120    |
| K-FWBG01-1250-1380 | 1,050          | 1,350        | 472330    | K-FWBG02-1250-1380-ESD | 476130    |
| K-FWBG01-1250-1800 | 1,050          | 1,800        | 472340    | K-FWBG02-1250-1800-ESD | 476140    |
| K-FWBG01-1250-0880 | 1,250          | 880          | 472350    | K-FWBG02-1250-0880-ESD | 476150    |
| K-FWBG01-1250-1080 | 1,250          | 1,080        | 472360    | K-FWBG02-1250-1080-ESD | 476160    |
| K-FWBG01-1250-1280 | 1,250          | 1,280        | 472370    | K-FWBG02-1250-1280-ESD | 476170    |
| K-FWBG01-1250-1380 | 1,250          | 1,350        | 472380    | K-FWBG02-1250-1380-ESD | 476180    |
| K-FWBG01-1250-1800 | 1,250          | 1,800        | 472390    | K-FWBG02-1250-1800-ESD | 476190    |
| K-FWBG01-1450-0880 | 1,450          | 880          | 472400    | K-FWBG02-1450-0880-ESD | 476210    |
| K-FWBG01-1450-1080 | 1,450          | 1,080        | 472410    | K-FWBG02-1450-1080-ESD | 476220    |
| K-FWBG01-1450-1280 | 1,450          | 1,280        | 472420    | K-FWBG02-1450-1280-ESD | 476230    |
| K-FWBG01-1450-1380 | 1,450          | 1,350        | 472430    | K-FWBG02-1450-1380-ESD | 476240    |
| K-FWBG01-1450-1800 | 1,450          | 1,800        | 472440    | K-FWBG02-1450-1800-ESD | 476250    |
| K-FWBG01-1650-0880 | 1,650          | 880          | 472450    | K-FWBG02-1650-0880-ESD | 476260    |
| K-FWBG01-1650-1080 | 1,650          | 1,080        | 472460    | K-FWBG02-1650-1080-ESD | 476270    |
| K-FWBG01-1650-1280 | 1,650          | 1,280        | 472470    | K-FWBG02-1650-1280-ESD | 476280    |
| K-FWBG01-1650-1380 | 1,650          | 1,350        | 472480    | K-FWBG02-1650-1380-ESD | 476290    |
| K-FWBG01-1650-1800 | 1,650          | 1,800        | 472490    | K-FWBG02-1650-1800-ESD | 476300    |
| K-FWBG01-2050-0880 | 2,050          | 880          | 472500    | K-FWBG02-2050-0880-ESD | 476310    |
| K-FWBG01-2050-1080 | 2,050          | 1,080        | 472510    | K-FWBG02-2050-1080-ESD | 476320    |
| K-FWBG01-2050-1280 | 2,050          | 1,280        | 472520    | K-FWBG02-2050-1280-ESD | 476330    |
| K-FWBG01-2050-1380 | 2,050          | 1,350        | 472530    | K-FWBG02-2050-1380-ESD | 476340    |
| K-FWBG01-2050-1800 | 2,050          | 1,800        | 472540    | K-FWBG02-2050-1800-ESD | 476350    |



# Safety accessories



## Rear grille sections

The backs of free-standing units must be fitted with safety mesh to prevent stored items or material from falling out. These safety mesh elements can be combined arbitrarily to match the height and the bay width of the rack.

Each element consists of a robust angled profile section frame with welded-in mesh, mesh dimensions 50 x 50 mm, incl. attachment fittings. Several mesh sections can also be placed above each other if required. Finish: painted grey (RAL 7037).

Please observe your local safety regulations (if in doubt, consult our specialists).

### Mesh section height 1,100 mm

| Item     | Bay width mm | Order no. |
|----------|--------------|-----------|
| GAC 1811 | 1,800        | 158740    |
| GAC 2211 | 2,200        | 158770    |
| GAC 2711 | 2,700        | 158800    |

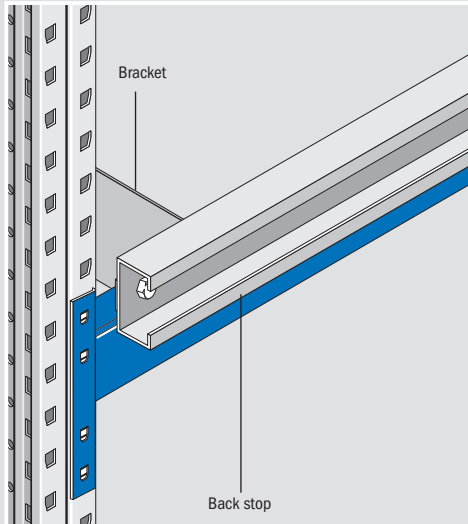
### Mesh section height 1,200 mm

| Item     | Bay width mm | Order no. |
|----------|--------------|-----------|
| GAC 1812 | 1,800        | 158750    |
| GAC 2212 | 2,200        | 158780    |
| GAC 2712 | 2,700        | 158810    |

### Mesh section height 1,450 mm

| Item     | Bay width mm | Order no. |
|----------|--------------|-----------|
| GAC 1814 | 1,800        | 158760    |
| GAC 2214 | 2,200        | 158790    |
| GAC 2714 | 2,700        | 158820    |

# Safety accessories



## Back stops

The back stops prevent objects from being pushed right through by accident, thus eliminating the risk of them falling from rack.

| Item           | Bay width<br>mm | Upright profile section<br>mm | Order no.     |
|----------------|-----------------|-------------------------------|---------------|
| <b>DS 1806</b> | 1,800           | C 60/40                       | <b>158350</b> |
| <b>DS 2206</b> | 2,200           | C 60/40                       | <b>158360</b> |
| <b>DS 2706</b> | 2,700           | C 60/40                       | <b>158420</b> |

## Bracket

Each back stop requires two brackets for fixing purposes. Finish: galvanised.

### Brackets placed at intervals of 100 mm

| Item         | Shelf depth<br>mm | Order no.     |
|--------------|-------------------|---------------|
| <b>KDS 1</b> | 1,050             | <b>158480</b> |



## Corner protector

Robust angled profile section with reinforced base plate incl. two anchors; recommended wherever fork-lift trucks are in operation.

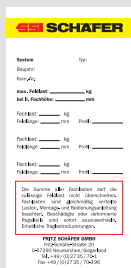
| Item           | Height<br>mm | Order no.     |
|----------------|--------------|---------------|
| <b>ES 400C</b> | 400          | <b>157390</b> |



Carton Live Storage System



Carton Live Storage System with pallet buffers



Self-adhesive PVC

## Load signs

Made from aluminium or plastic, incl. fixing materials.

| Item                  |                                                | W x H<br>mm | Order no.     |
|-----------------------|------------------------------------------------|-------------|---------------|
| <b>KD RTS 7050</b>    | Carton Live Storage System                     | 420 x 600   | <b>902967</b> |
| <b>KD RTS 7050 PP</b> | Carton Live Storage System with pallet buffers | 420 x 600   | <b>902967</b> |

## Load sign

Made from self-adhesive PVC.

| Item           |                            | W x H<br>mm | Order no.     |
|----------------|----------------------------|-------------|---------------|
| <b>TS 0615</b> | Carton Live Storage System | 60 x 150    | <b>157300</b> |



### Identification labelling requirements

In accordance with the industry safety regulations, all racking installations must be labelled with the relevant load signs.

# The SSI SCHAEFER Group – a strong alliance



International headquarters of the SSI SCHAEFER Group,  
FRITZ SCHÄFER GMBH, Neunkirchen, Germany



## Products and services

- ▶ Storage, order-picking and transport containers
- ▶ Modular shelving systems, platform systems
- ▶ Pallet, longspan, cantilever arm and mobile shelving systems
- ▶ Live storage and online shelving systems
- ▶ Fully automatic high rack and silo warehouses
- ▶ Dynamic small parts warehouses
- ▶ Workshop, production and office equipment
- ▶ Waste management and recycling
- ▶ General contracting
- ▶ IT systems for warehouse management and material flow control
- ▶ Storage retrieval equipment
- ▶ Conveyor technology for containers, cartons and pallets
- ▶ Automatic and paperless order-picking systems
- ▶ Sorting and distribution systems
- ▶ Container and paper handling systems
- ▶ After-sales service and maintenance





## SSI SCHAEFER Group

The SSI SCHAEFER Group is one of the world's leading suppliers of storage and logistics systems. Our areas of expertise range from fitting out warehouses with our standard products to implementing complex logistics projects as the general contractor.

A wealth of competences are brought together under the SSI SCHAEFER umbrella, laying the foundations for the development of efficient, cross-industry storage systems and complete intralogistics solutions.

### **FRITZ SCHÄFER GMBH, Neunkirchen/ Germany**

Fritz Schaefer GmbH – the international headquarters of the SSI SCHAEFER Group – is based in Neunkirchen. For decades the company has been a leading complete supplier of high-quality product systems for storage, production, office, waste management and recycling.

### **SSI SCHÄFER NOELL GMBH, Giebelstadt/ Germany**

SSI Schaefer Noell GmbH is a specialist firm for complex logistics systems and a general contractor with experience in international projects. Its services range from system planning and consultancy to turnkey installations and made-to-measure after-sales service.

### **SSI SCHÄFER PEEM GMBH, Graz/ Austria**

SSI Schaefer Peem GmbH specialises in modular order-picking technology. The company plans, develops and produces highly dynamic small parts conveyors and automatic order-picking systems, including the associated software.

### **SALOMON AUTOMATION GMBH, Friesach bei Graz/ Austria**

Salomon Automation GmbH is a general contractor, developing tailor-made complete solutions for manual and fully automatic storage systems. The company helps its customers find the right solutions through software implementation, selection of the optimum IT and storage technology infrastructure and training provision.

## SSI SCHAEFER – find out more

You'll find the latest news from SSI SCHAEFER, customer newsletter "update", information about recent reference projects, detailed product information, brochures and catalogues on our website:

**WWW.**  
**ssi-schaefer.com**



# A strong partner worldwide

We make it a top priority to be easily accessible to our customers. Our global network of subsidiaries, representatives, sales partners and worldwide production sites places us near to our customers wherever they are and enables us to offer short response times and efficient service.

The use of the latest production technologies lays the essential foundations for innovation and development.

**Contact us –  
at a location near you**

## **NORTH-AMERIKA**

Canada  
Mexico  
USA

## **SOUTH-AMERIKA**

Brazil

## **EUROPE**

Germany  
Belgium  
Denmark  
Finland  
France  
Great Britain  
Italy  
Netherlands  
Austria  
Poland  
Romania  
Sweden  
Switzerland  
Spain  
Czech Republic  
Hungary

## **MIDDLE-EAST**

United  
Arab Emirates

## **ASIA**

Singapore  
China  
Hongkong  
Indonesia  
Malaysia  
Philippines  
South Korea  
Thailand  
Taiwan  
Vietnam

## **AUSTRALIA**

Australia

## **Other representative companies in:**

Bahrain, Brunei, Croatia, Cyprus, Egypt, Estonia, Iceland, Jordan, Kuwait, Lebanon, Luxembourg, Latvia, Lithuania, Norway, Oman, Russia, Slovakia, Slovenia, Ukraine

All the current contact information for our subsidiaries, representatives and contractual partners can be found on our website in the “contact” area.

**www.ssi-schaefer.com**



Sweden, Malmö



USA, Charlotte



Canada, Brampton



Czech Republic, Hranice



China, Kunshan



Malaysia, Johor



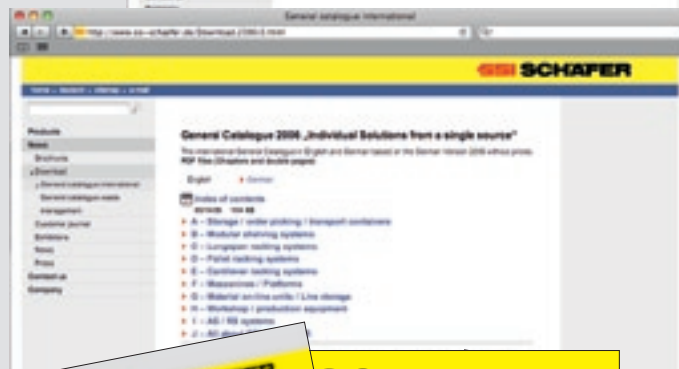
# SSI SCHAEFER – find out more

You will find more information about the SSI SCHAEFER Group and our products and services online. It's the quick and easy way to read the latest news, find out about upcoming trade fairs, download information and order our brochures. Our websites are well worth a visit:

[www.ssi-schaefer.de](http://www.ssi-schaefer.de)

[www.ssi-schaefer.com](http://www.ssi-schaefer.com)

[www.salomon.at](http://www.salomon.at)





## SSI SCHÄFER

### FRITZ SCHÄFER GMBH

Manufacturing plants for warehouse,  
production and office equipment,  
waste management and recycling

Fritz-Schäfer-Straße 20  
D-57290 Neunkirchen/Siegerland  
Phone +49 / (0) 27 35 / 70-1  
Fax +49 / (0) 27 35 / 70-5 76  
eMail [export@ssi-schaefer.de](mailto:export@ssi-schaefer.de)  
[www.ssi-schaefer.de](http://www.ssi-schaefer.de)

