

SOLUTIONS ТНАТ FIT



Pallet Racking

Cantilever Racking

Drive-in Racking



Pallet-handling System:



Mobile racking for pallets and storage of long item



High bay, narrow-aisle system



KDR Carton Live Storage

Long span shelving



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SOLUTIONS THAT FIT

INSTALLATION INSTRUCTIONS

KDR Carton Live Storage System





FRITZ SCHÄFER GMBH

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Contents	
1) Introduction	
2) Important information	
3) Notes on Safety	
4) Preparation work for the erection of racking2	
5) Floor levelling	
6) Frame Combinations	
7) Assembly of standard frames (P 63 and P 65)5	
8) Assembly of frames with mono-posts (P 63 and P 65)7	
9) Assembly of frames with mono-posts (P 73)9	
10) Assembly of frames for palletised buffer stock	
11) Assembly of flow beds15	
12) Pre-assembly of side-profiles	
13) Samples of ergonomic configurations of flow beds	
14) Positioning the side-profiles within the bay	
15) Overview of flow beds	
16) Assembly of flow beds	
17) Installation of roller tracks, standard and adjustable guide rails	
18) Installation of multiple separators & guides	
19) Installation of accessories	
20) Installation of safety accessories	

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Warning symbols



Caution! Danger! Danger of serious injury!



Help required!

Please note!

Read carefully!



1) Introduction

The SSI SCHAEFER system is manufactured to the highest technical standards and meets all applicable regulations. For absolute safety please ensure:

- The rack is correctly assembled
- · It is not changed or modified without advice
- Only genuine accessories are used
- All safety regulations are observed



All installers should be provided with a copy of the regulations and a signature should be obtained to confirm receipt.

Other Safety Regulations, which apply include:

- Accident prevention
 Company Sefety
- General Company Safety Regulators
 Installation Rules
- Current statute law and related regulations

Notes on Safety

Please check the following details to avoid injury to persons or property:

- Work place regulations

3)

- Safety Officer Instructions
- Load bearing capacity of the slab floor
 - All materials must be in perfect condition. Damaged components must be replaced immediately. If in doubt stop work, secure the area and notify your Safety Officer.
- Do not use racking until all assembly work is complete
 - Storage of food directly on the galvanised chute plates is not permitted.
- All persons involved in assembly or dismantling work must use harnesses or other means to prevent falling when working at a height of 2 m and above.
- Protective clothing such as hard hat, gloves, safety boots must be worn during dismantling and conversion work.
- The racking must be sufficiently protected against impact with forklift trucks and other vehicles with rack protectors.

All genuine construction parts, which are designed to stabilise the storage equipment, must be fitted. This applies to horizontal and diagonal bracing, floor fixings and screws.

4) Preparation for the erection of racking

Required tools

Tape measure

Pencil

Plumb bob Spirit level

Plastic- or rubber-faced mallet

Open end spanners and socket wrenches, SW 10, 13, 17, (16), 24

Hammer drill

Drill bits Ø 10, Ø 18

Masonry Steel Drill bit Ø 4.2

Rivet gun

Planning the assembly

Before commencing the assembly of the racks, take measurements of the area to be used and mark the position of the racks. A tape measure and string lines are the most suitable tools for this work. You should note that normally the live storage beds protrude beyond the supporting frames by 115 mm on the replenishment side and the 130 mm on the picking side. Also the storage beds can be adjusted horizontally within the frame which should be taken into consideration when determining aisle widths. Main aisle widths for pedestrians should be at least 1250 mm with transfer aisles at least 750 mm.

2) Import information



Please observe the assembly instructions. Please ask for these documents if you do not have them available.

These shelving systems are designed for installation in fully enclosed spaces with normal ambient temperatures (5°C).

Load bearing capacity values can be taken from the load notices. If you require any expert assistance, please do not hesitate to contact us.



Notes for stacking equipment and pallets

The forks of the forklift truck must be of sufficient length for the dimension of the pallets. The forks must not protrude over the outer edges of the pallet, but they should safely reach under the last board of the pallet. The permitted load for the pallet must not be exceeded.



 Whether the load bearing capacity of the floor is sufficient to carry the planned loads. If in doubt, ask a specialist and have the load bearing capacity examined. The customer is fully responsible for checking this information.

 The surface of the floor. The prerequisite is a reinforced concrete slab with a minimum thickness of 200mm, concrete quality B25 according to DIN 1045. On a magnesite cast plaster floor surface insulating slab, special anchors are required to avoid corrosion. If the conditions deviate from these pre-requisites you should inform the manufacturer for alternatives. The floor must be level. Depending on the height of the structure, the following tolerances are valid: The adherence to the maximum loads specified by SSI SCHAEFER is the sole responsibility of the customer. The specified loads apply for evenly distributed loads.

Storing of palletised stock

The pallets must rest completely on the beams. The pallets must not be pushed across the beams or dropped down in a heavy manner. Only flat pallets, which are in accordance with the quality regulations and in good condition, must be used. Rack faces, which are not designed for replenishment and picking, must be provided with anti collapse mesh. The customer is responsible for ensuring that the permissible loads are not exceeded.

Load										
Distance between measuring points (in metres)	0,1	0,6	1,0	1,5	2,0	2,5	3,0	3,5	4,0	10
Unit tolerances (in mm)	2	3	4	5	6	7	8	9	10	12
Available floor area for storage facilities of up to 6m in height.										
Distance between measuring points (in metres)	0,1	0,6	1,0	1,5	2,0	2,5	3,0	3,5	4,0	10
Unit tolerances (in mm)	2	3	4	5	6	7	8	9	9	10
Available floor area for storage facilities of over to 6m in heigh	ıt.									

5) Floor levelling

Plum-bob deviation

Ensure while setting up the shelving system that the plum bob does not deviate by more than 1/300 at any upright height (either longitudinally or transversely). The total maximum deviation of the individual levels is 1/300, and the frames may not be displaced longitudinally by more than 1/300 relative to each other. Compensate for any unevenness in the floor by placing shims of adequate thickness and size under the feet of the frames.

The individual frames corresponding to each row of bays must form a single, smooth line. The frames may not be displaced by more than 1/300 relative to each other (measured at the centre of each upright).





6) Frame Combinations



Upright profile sections	P 63	2,5 P 65	P 73	P 93	P 13	P 23	P 43
Standard Frame	•	•	•				
Frames with mono-posts	•	•	•	•	•	●	•
Frames for maximum depth	•	•	•	•	•	•	•
Frame for palletised buffer stock			●	•	•	٠	•

7) Assembly of standard frames and multiple frames for maximum depth Upright P 63 and P 65_____













7.1) Floor fixing











8.1) Floor fixings











9.1) Floor fixings







10) Assembly of frames for palletised buffer stock and multiple frames for maximum depth – Upright P 73 and P 93



rame-height mm			Horizontal brace spacing (F) mm								
		F 1	F 2	F 3	F 4	F 5	F6	F 7	F 8		
,200	163	800	1,100	-	-	-	-	-			
,500	163	1,100	1,100	-	-	-	-	-			
,700	163	800	1,100	500	-	-	-	-			
,000	163	1,100	1,100	500	-	-	-	-			
,300	163	1,100	1,400	500	-	-	-	-			
,600	163	1,100	1,100	1,100	-	-	-	-			
,800	163	800	1,100	1,100	500	-	-	-			
,100	163	1,100	1,100	1,100	500	-	-	-			
,400	163	1,100	1,100	1,400	500	-	-	-			
,700	163	1,100	1,100	1,100	1,100	-	-	-			
,900	163	800	1,100	1,100	1,100	500	-	-			
,200	163	1,100	1,100	1,100	1,100	500	-	-			
,500	163	1,100	1,100	1,100	1,400	500	-	-			
,800	163	800	1,100	1,100	1,100	1,400	-	-			
,000	163	800	800	1,100	1,100	1,400	500	-			
,300	163	800	1,100	1,100	1,100	1,400	500	-			
,600	163	800	1,100	1,100	1,400	1,400	500	-			
,900	163	800	1,100	1,100	1,100	1,100	1,400	-			
,100	163	800	800	1,100	1,100	1,100	1,400	500			
,400	163	800	1,100	1,100	1,100	1,100	1,400	500			





Parts list PR 600

Frame:	consisting of 2 uprights and 2 standard feet
Frame depth:	850 mm, 1,050 mm und 1,250 mm
Upright width:	75 mm, 90 mm, 100 mm, 140 mm
Material thickness of upright section according to load capacity:	1.75 mm; 2.00 mm; 2.50 mm; 2.75 mm; 3.00 mm

Frame-height	800 mm	Diagonal braces 1,100 mm	1,400 mm	Cross brace	Bolts M10x75mm	Bolts M10x30mm	Nyloc nuts	Washers	Spacer tube
2,200	1	1	-	3	6	4	10	8	2
2,500	-	2	-	3	6	4	10	8	2
2,700	1	1	-	4	8	4	12	8	4
3,000	-	2	-	4	8	4	12	8	4
3,300	-	1	1	4	8	4	12	8	4
3,600	-	3	-	4	8	4	12	8	2
3,800	1	2	1	5	10	4	14	8	4
4,100	-	3	-	5	10	4	14	8	4
4,400	-	2	-	5	10	4	14	8	4
4,700	-	4	-	5	10	4	14	8	2
4,900	1	3	-	6	12	4	16	8	4
5,200	-	4	-	6	12	4	16	8	4
5,500	-	3	1	6	12	4	16	8	4
5,800	1	3	1	6	12	4	16	8	2
6,000	2	2	1	7	14	4	18	8	4
6,300	1	3	1	7	14	4	18	8	4
6,600	1	2	2	7	14	4	18	8	4
6,900	1	4	1	7	14	4	18	8	2
7,100	2	3	1	8	16	4	20	8	4
7,400	1	4	1	8	16	4	20	8	4





10.1) Floor attachment







15

11.1) System components for KDR Carton Live Storage System – Flow bed modules





12.1) Side profile (front)

12.2) Side profile (rear)



12.3) Forming the angled side-profile





13.1) Upright profile P 63 and P 65



13.2) Upright profile P 73 and P 93



14) Positioning the side profiles within the bay – Upright profile P 63, P 65, P 73 and P 93



14.1) Positioning the side profiles within the bay – Upright profile P 63 and P 65







14.2) Positioning the profiles within the bay – rear and inner, Upright P 63 and P 65



14.3) Anti-tip clip – Upright profile P 63 and P 65

B6

Each flow bed is fitted with two anti-tip clips. They are fitted at the rear and/or where, when fitted will prevent tipping.



14.4) Positioning the side-profiles within the bay – Upright profile P 73 and P 93



14.5) Positioning the side profiles within the bay – Upright P 73 and P 93



14.6) Anti-tip clip

Each flow bed is fitted with two anti-tip clips. They are fitted at the rear and/or where, when fitted will prevent tipping.









15.1) Overview of flat flow beds with front chute



15.2) Overview of flow beds with angled front chute





Caution!

Each flow bed is supplied with its corresponding sketch diagram. Please refer to this sketch diagram for details of position, number and type of cross supports, together with the load capacity of the flow bed.





16.) Assembly of the flow beds









17.) Installation of roller track and guide rail





18.) Installation of multiple separator and guide





В

19.) Installation of accessories





Technical query form

From/Company stamp:

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Tel.: Fax:

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	have further queries
	To arrange an appointment on at

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