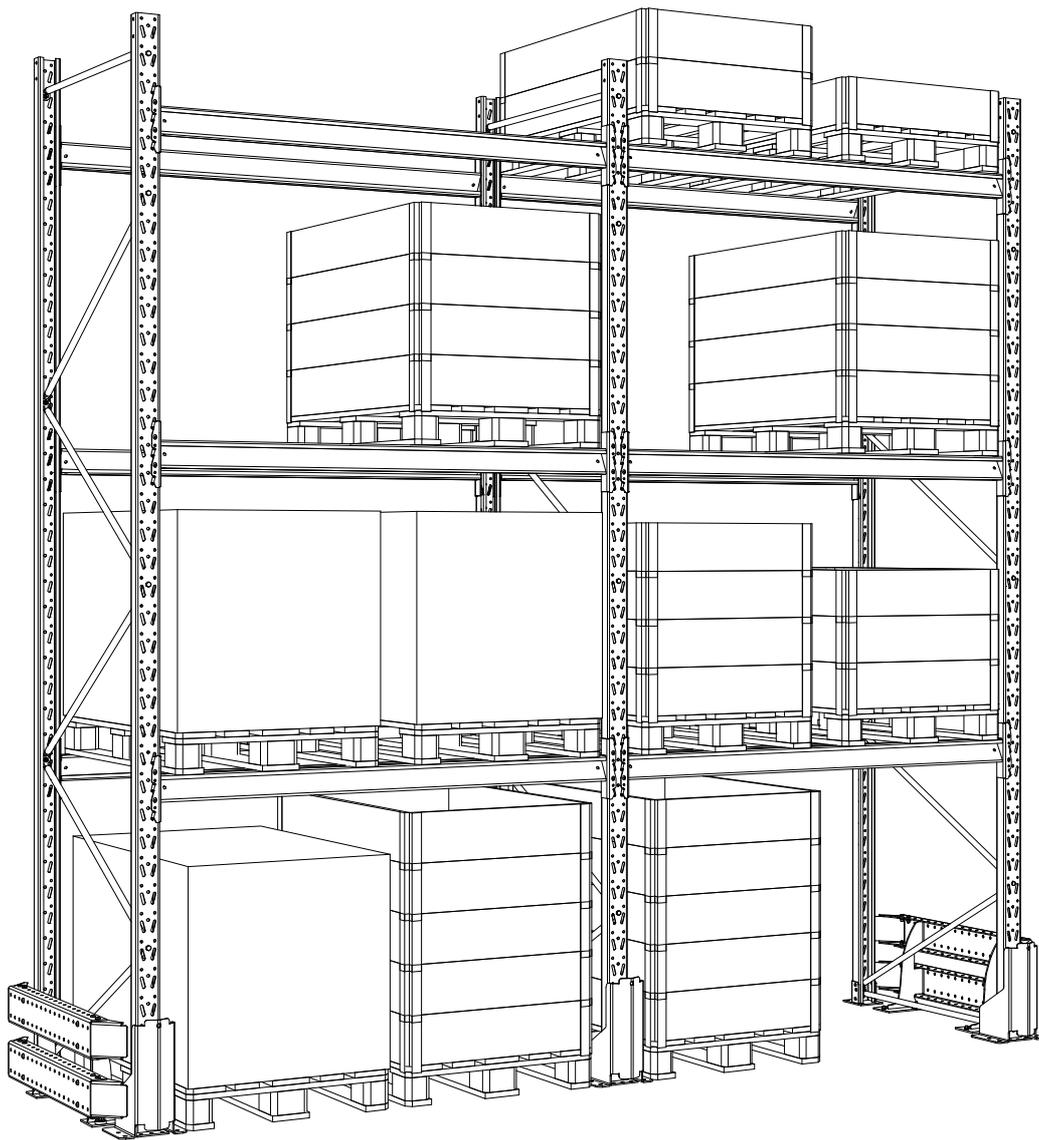


Assembly and users manual

Pallet racking Alfa



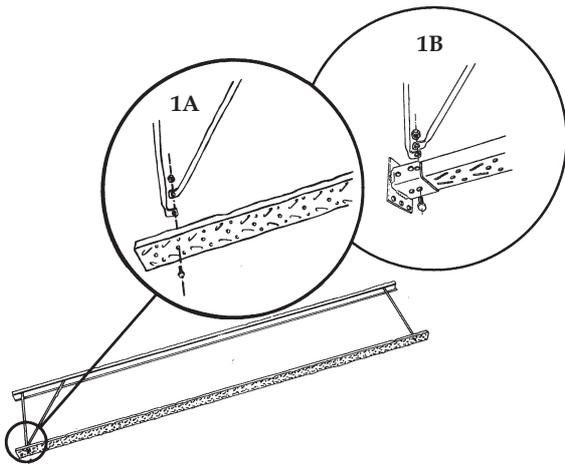
ASSEMBLING OF FRAMES

Tightening Torque
 Screw M10 8.8 Max. tightening torque 47 Nm
 Taptite M6 Max. tightening torque 5 Nm
 Taptite M8 Max. tightening torque 15 Nm
 Screw B31K 5,5x20 Max. tightening torque 5 Nm
 Lock nut M10 class 8
 Tighten screw joints for good contact.
 Max. tightening torque must not be exceeded.

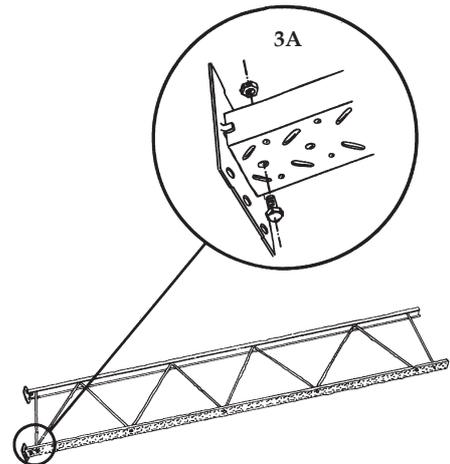
Expansion anchors
 M10x90 Hilti HST
 Drill hole Ø10 - 80 mm
 Min. mounting depth 69 mm
 Max. thickness fastened 10 mm

M12x100 Hilti HSA
 Drill hole Ø12 - 95 mm
 Min. mounting depth 65 mm
 Max. thickness fastened 20 mm

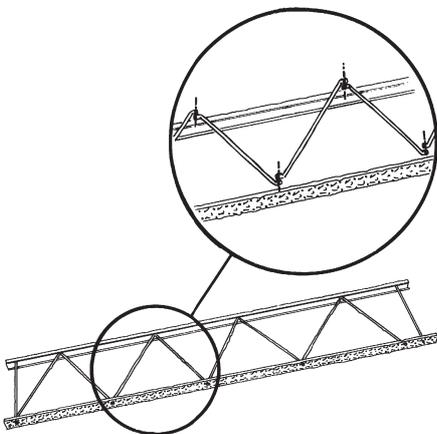
See Hiltis instructions on the package.
 If the distance between the anchor and the concrete edge is less than 9x anchor diameter, please contact EAB.



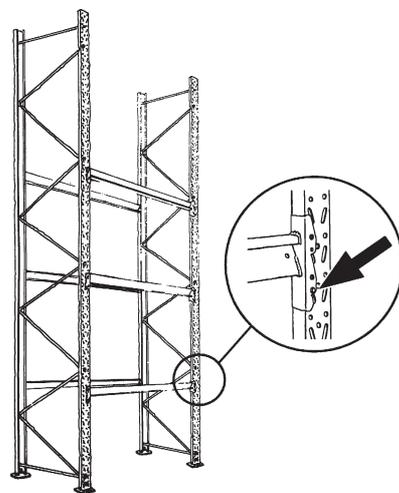
1. Fit a horizontal brace 143 mm from the top (= in the second hole).
 1A. (with standard footplate)
 Fit the second horizontal brace 157 mm from the bottom (= in the second hole), together with the first diagonal brace.
 1B. (with sleeve footplate)
 Fit the second horizontal brace 57 mm from the bottom (= in the first hole), together with the first diagonal brace and the sleeve footplate.



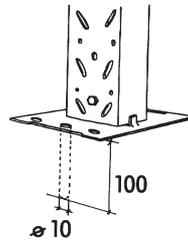
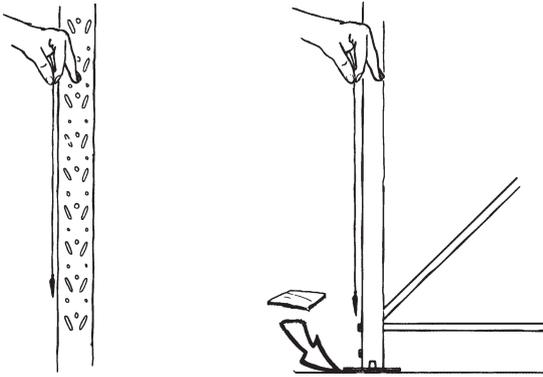
3. 3A. (with standard footplate)
 Fit the footplates and tighten all the joints.
 This completes assembly of the vertical frame.
 3B. (with sleeve footplate)
 Tighten all joints, to complete assembly of the vertical frame.



2. Fit the other diagonal braces, overlapping the ends of each adjacent brace as shown.
 See also the dimensions table on the opposite page.

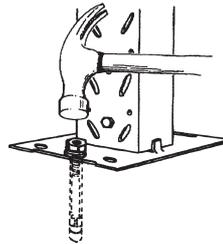


4. Raise the first section and fit two safety pins per horizontal beam, starting from the lowest hole.



6. Anchor the racking using M10 x 90 expansion bolts. Drill 10 x 100 mm holes and clear away drilling dust and debris. Use the centre hole in the footplate if possible. (with sleeve footplate). Stability can be improved by fitting two expansion bolts in the outer holes.

5. Check that the first section is standing square and upright before continuing with assembly. Maximum permissible out-of-vertical is 3 mm/m. Use levelling plates to correct for uneven floors.



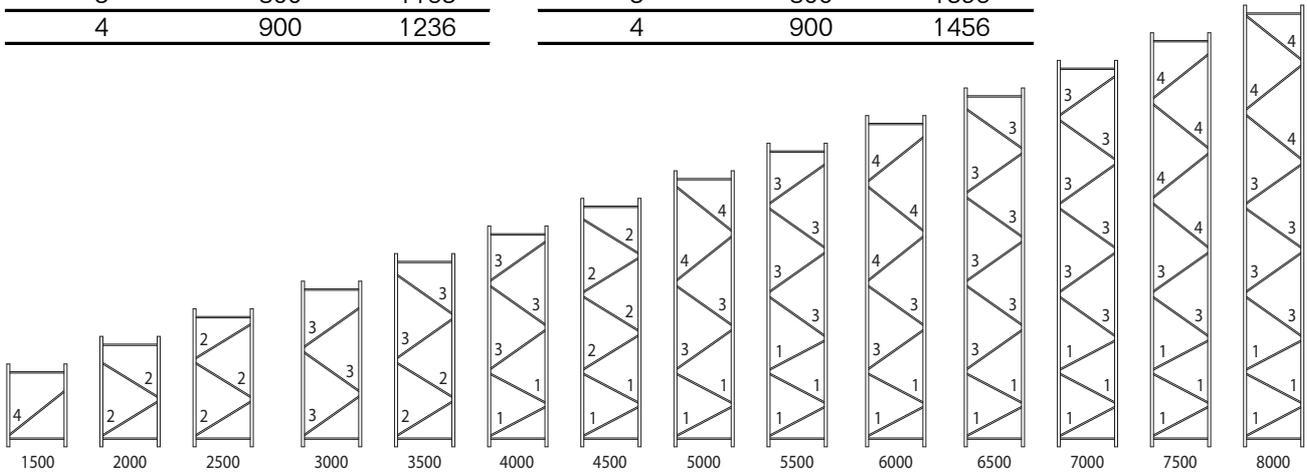
7. Check that the top of the nut is flush with the top of the expansion bolt to prevent the threads from being damaged. Hammer the bolt into the hole and then tighten the nut to a torque of about 30 Nm.

DIMENSIONS - 800 mm frames

Diagonal brace type	Rise per brace	Length of brace
1	600	1037
2	700	1098
3	800	1163
4	900	1236

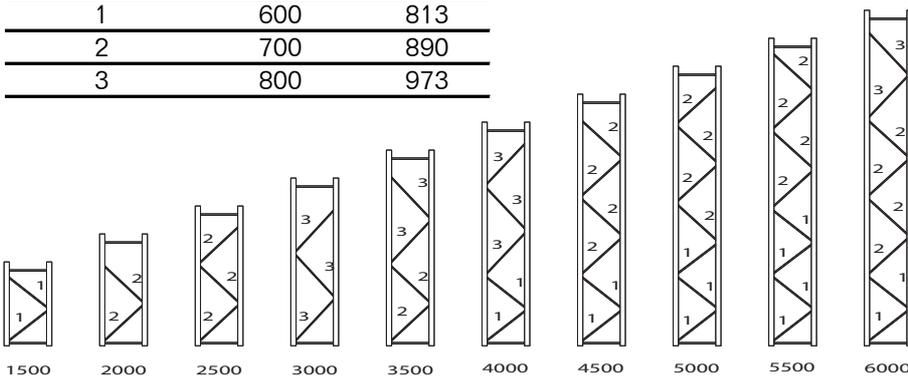
DIMENSIONS - 1100 mm frames

Diagonal brace type	Rise per brace	Length of brace
1	600	1293
2	700	1342
3	800	1396
4	900	1456



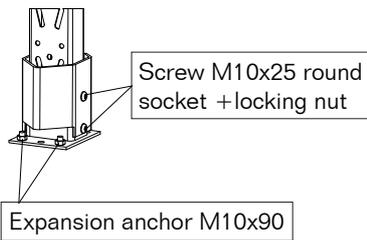
DIMENSIONS - 500 mm frames

Diagonal brace type	Rise per brace	Length of brace
1	600	813
2	700	890
3	800	973

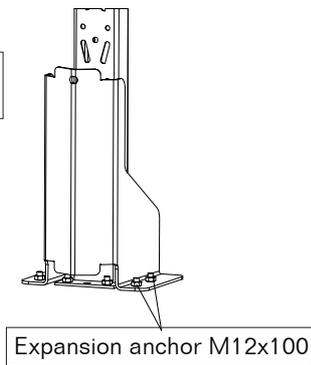


UPRIGHT PROTECTOR/REINFORCE

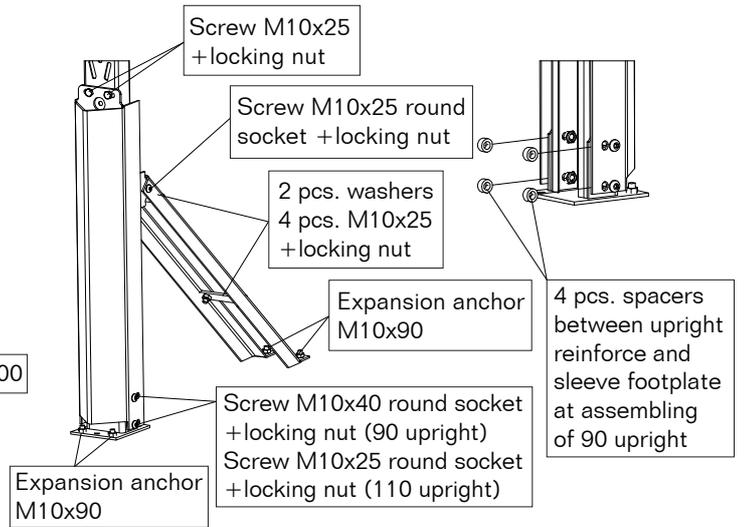
UPRIGHT REINFORCE



UPRIGHT PROTECTOR HEIGHT 400 MM



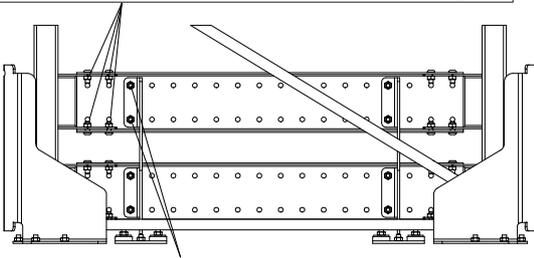
UPRIGHT REINFORCEMENT HIGH



FRAME PROTECTOR HEIGHT 400 MM

END PLATE

4 pcs. screw M10x25 round socket + locking nut



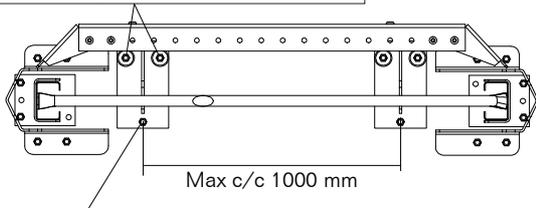
The frame protector fulfill the requirements according to SS-EN 15512, even during assembly without pu-spring. We recommend that the pu-springs are always installed, since it increases the frame protectors capacity against repeatedly collisions.

U-PROFILE PROTECTOR + FOOT

2 pcs. screw M10x25 round socket + locking nut

FOOT

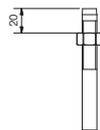
2 pcs. expansion anchor M12x100 + washer 12,5x35x,3 + pu-spring 40x13x10 + locking nut



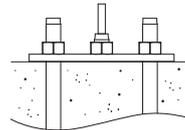
FOOT

1 pcs. expansion anchor M12x100

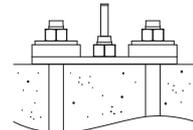
MOUNTING FEET WITH PU-SPRING IN CONCRETE FLOOR



1. Screwing down a nut 20 mm on a M12 expansion anchor.



2. Hammer down and tighten the expansion anchor.

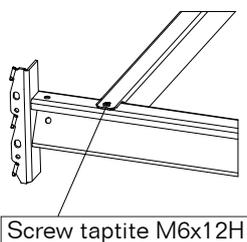


3. Unscrew the nut and provide 2 pcs expansion anchor with pu-spring, washer and locking nut. Tighten the locking nut to good contact to the washer.

ACCESSORIES

PALLET SUPPORT BAR

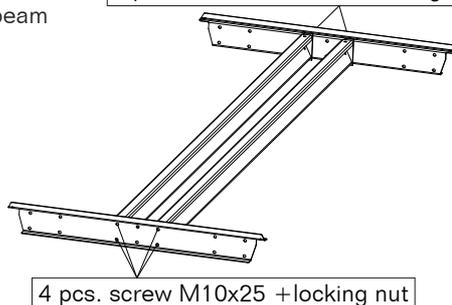
For longside handling pallets (2 per pallet position).
Drill 5,5 mm diameter holes to suit when the horizontal beam is not predrilled.



HALF PALLET SUPPORT

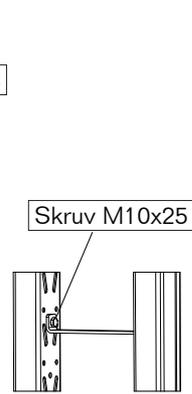
(positioned resting freely on the horizontal beam)

4 pcs. screw M10x25 + locking nut

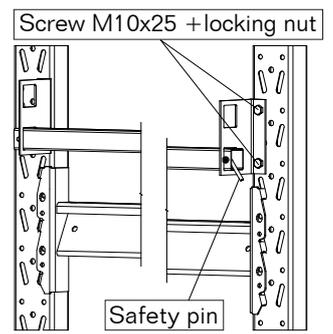


Screw Taptite M10x25 in the lower holes when support beam Z115 or Z140 is used

FRAME SPACER



HORIZONTALLY PALLET STOP



SAFETY IN WAREHOUSES

EAB's pallet racking employ a proven design, with maximum emphasis on safety and performance. The Pallet racking fulfil all safety requirements in the European Standards, SS-EN 15512, SS-EN 15620, SS-EN 15629 and SS-EN 15635 which includes rules for static design, testing, assembly and marking.

Assembly/modification

To ensure safety, it is important that pallet racking are always assembled in accordance with the instructions given here. The diagram on the outside back cover shows how the frames are affected by changes in the positions of the beam levels. The height from the floor to the first beam level affects the load-carrying capacity of the frame, as does the distance between levels.

Marking

The uprights are stamped with their maximum load-carrying capacity per section, while the horizontal beams are stamped with their maximum load-carrying capacity per level. The rating plates supplied with the frames must be fitted in clearly visible positions, and it is the responsibility of management to see that loading information given on them is complied with.

Maintenance

Any damage caused by trucks etc. colliding with the racking frames must be rectified immediately, as such damage can often affect the load-carrying capacity of the frames. An upright member that has been hit is always a safety risk, and must be replaced.

Accessories

An effective way of improving safety is to complement the frames with protectors, pallet stop, half-pallet support bars etc.

Inspection

Erections inspection: Before starting to use the pallet racking, it must be inspected in accordance with these instructions and in any special erection drawings.

Regular inspection: Pallet racking must be regularly inspected in respect of locking devices, bracing, damage by vehicles etc. and anything else that could affect their strength.

Periodic inspection: Pallet racking must be inspected at least every twelve months to ensure that they continue to comply with these instructions and with any special erection drawings.

Re-inspection: Must always be performed if the positions of the horizontal pallet support beams are moved or if the frames are altered in any other way.

The purchaser or user is responsible for ensuring that the above inspections are performed.

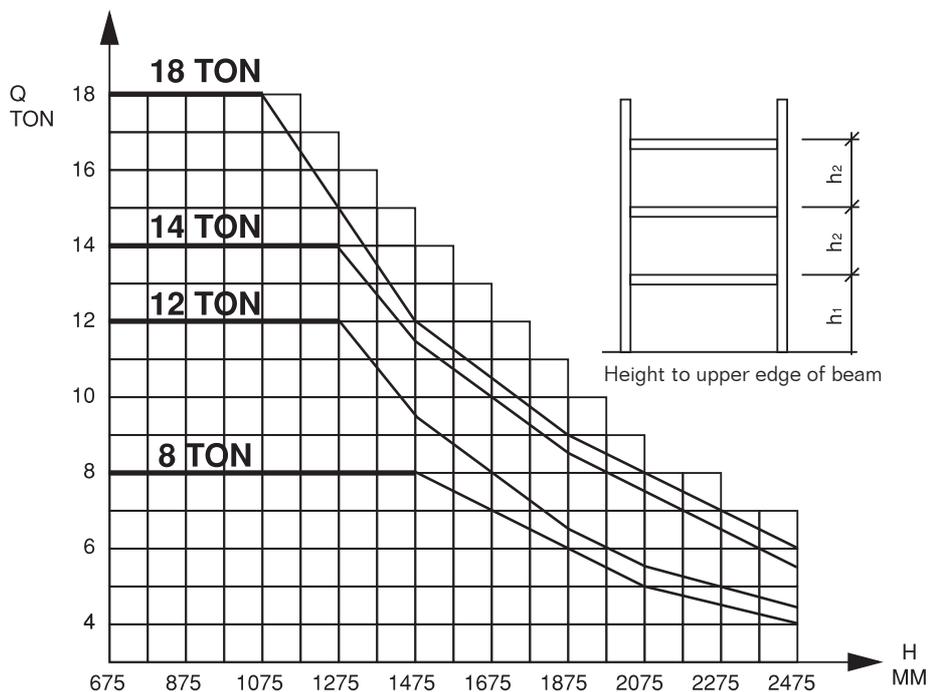
PERMITTED LOAD PER SECTION

for Pallet racking Alfa mounted on concrete floor

Type designation = Maximum load per section.
 The type designation is stamped on the front of the uprights at a height of 0.4 m above the floor level.

The permitted load per section depends on the positions of the horizontal beams, as shown in the diagram.

The maximum load per horizontal level is stamped on the beam.



Q = Permitted load per section for $H = h_1 = h_2$. At least two horizontal levels.
 No back braces.

Contact EAB for information on other load conditions.



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