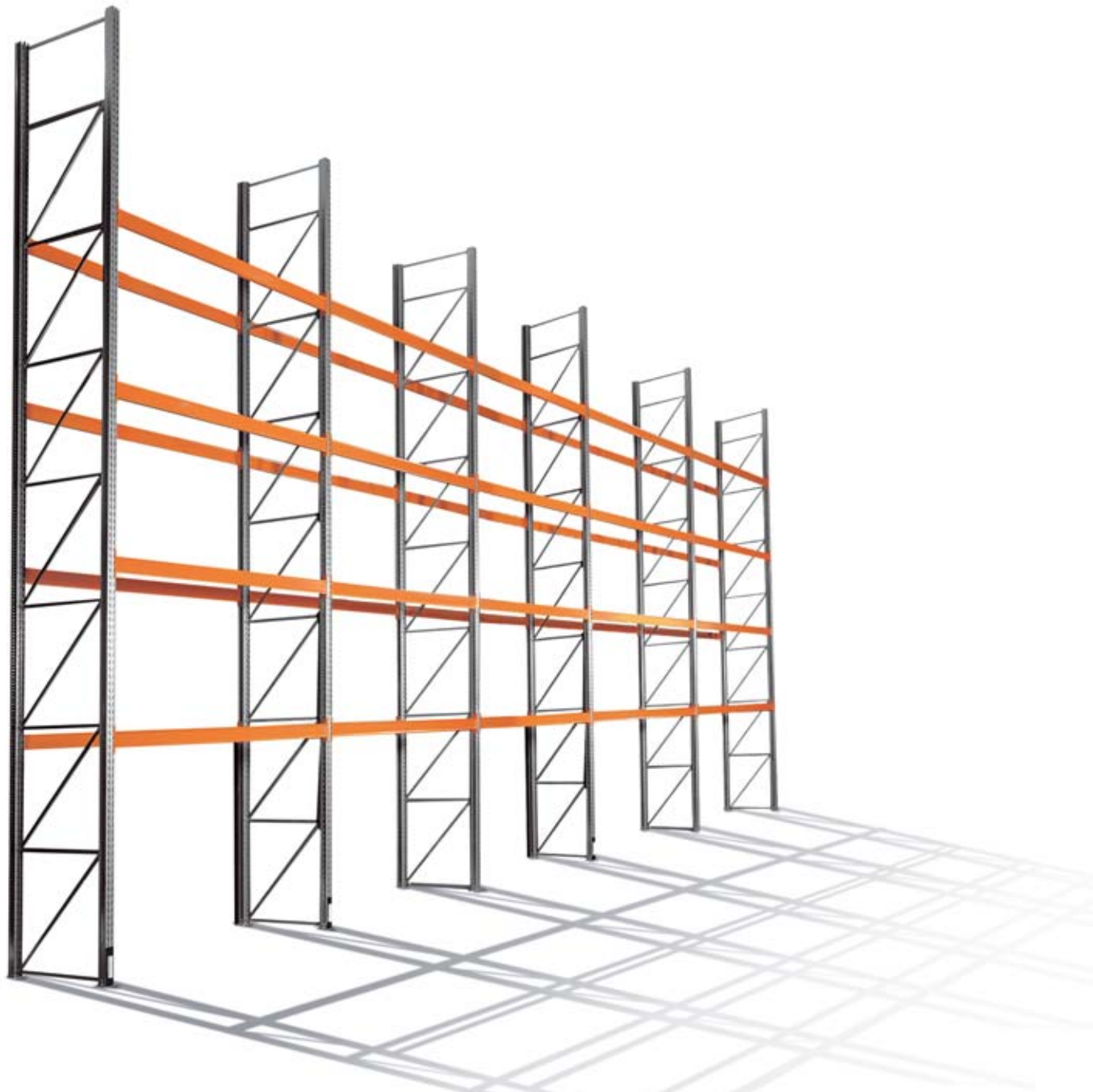
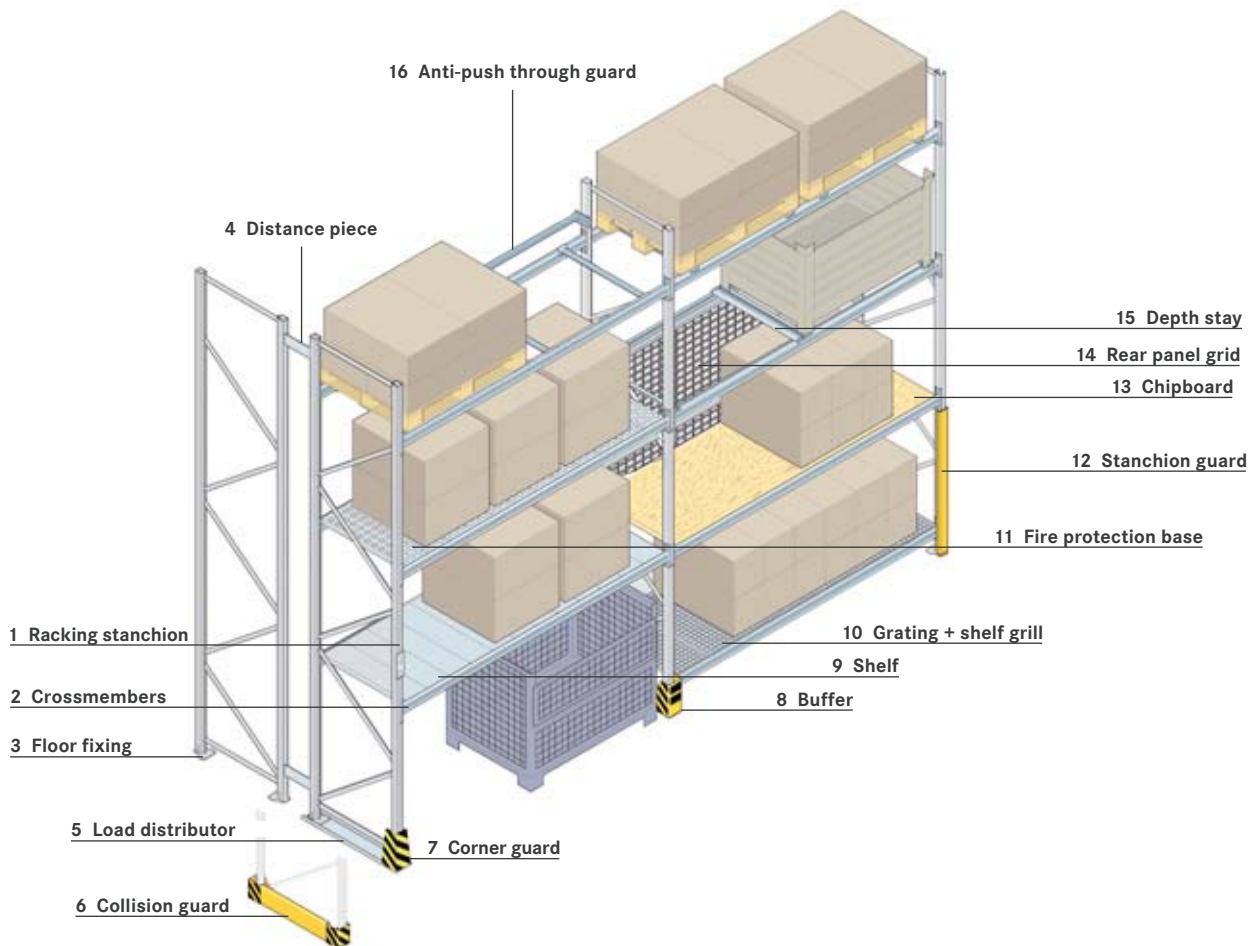


Technical Data Pallet Rack

Pallet rack





Racking stanchions and crossmembers

1 The racking stanchions made from special profiles are punched in a 50 x 50 mm pattern. Each 2 racking stanchions have their framework profiles bolted to an upright. Different profiles and material thicknesses are used depending on the shelf loads.

2 The crossmembers with welded on hangers connect the racking uprights and form a racking bay. The crossmembers are secured against lifting out by a securing pin.

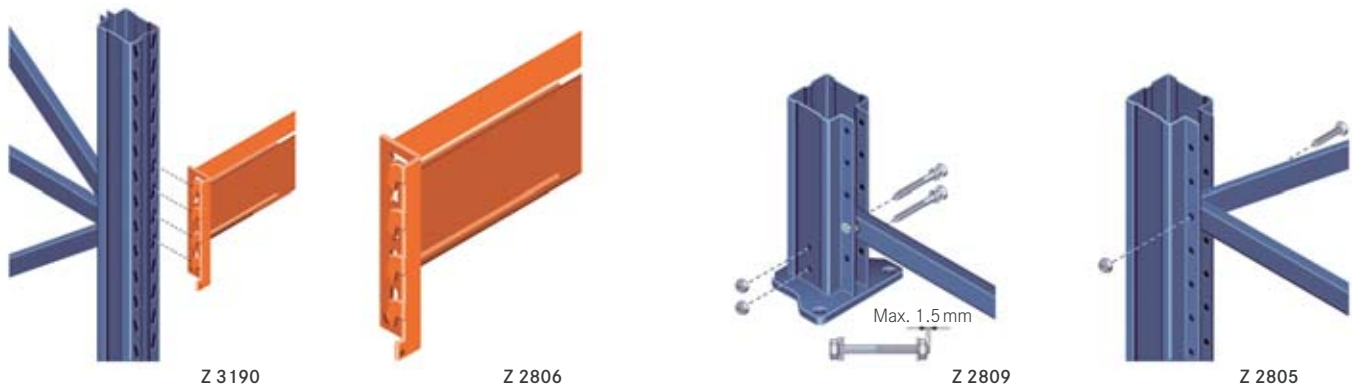
Floor fixing

3 The racking stanchions are securely fixed to the floor with a staybolt. The version used depends on the racking height and the grade of the concrete.

Distance pieces

4 These connect two rows of racking at a specified distance and ensure greater stability. For racking systems with a sprinkler system the distance pieces are used for fixing the piping.





Fitting facilitated

Example: A new hanger joint for our heavy duty racking guarantees easier fitting and improved statics. The uprights themselves represent a bolted system, whose height and depth can be extended or modified with the construction kit system.

Loading figures – prerequisites

Crossmembers

- The stated shelf load is taken to be uniformly distributed over the whole crossmember pair or shelf base.
- The permissible centre sag is max. L/200 of the crossmember length.
- The stated shelf load only applies in conjunction with our heavy duty racking.

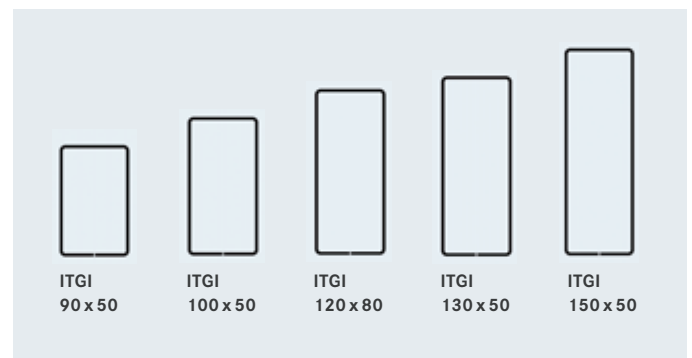
Uprights

- The racking must not be stressed by impact loads.
- The stated permissible loadings apply for at least 4 racking bays per row.
- To ensure adequate longitudinal stability at least 2 crossmember pairs must be hooked in for each racking bay.
- Racking must be set up on adequately dimensioned concrete (min. concrete grade to DIN 1045 (7.88) B25).
- The levelness of the floor, regardless of whether this is an unfinished or finished floor, must comply with DIN 18202, Part 5.
- Racking uprights are to be firmly dowedled to the concrete floor.
- When planning and setting up heavy duty racking the instructions in ZH 1/428 and in our Operating and Assembly Instructions must always be complied with and adhered to. Please request the Operating and Assembly Instructions.
- Assembly and set up only by authorised assembly personnel.
- When determining the permissible loading figures for the racking bay the greatest shelf height is to be taken in each case.
- For racking with fewer than 4 racking bays the bay loading is to be reduced in accordance with the following directive:
 3 bays = 0.88 x bay loading
 2 bays = 0.77 x bay loading
 1 bay = 0.66 x bay loading

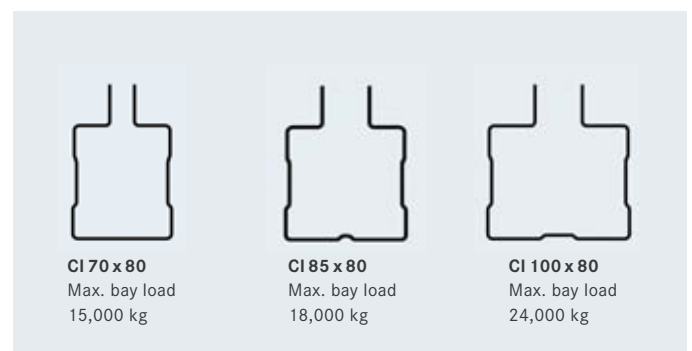
Base plates

- The uprights are anchored to the floor through the base plates. The appropriate base is used depending on the application and load.
- Accurately fitting shims level up the racking installation.

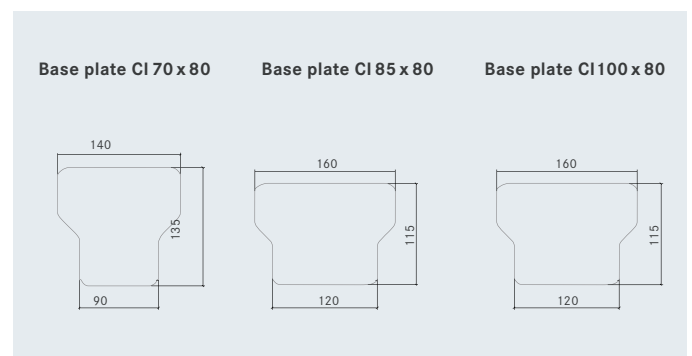
Crossmember profiles for shelf loads up to 5,000 kg



Upright profiles for different bay loads



Base plates



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