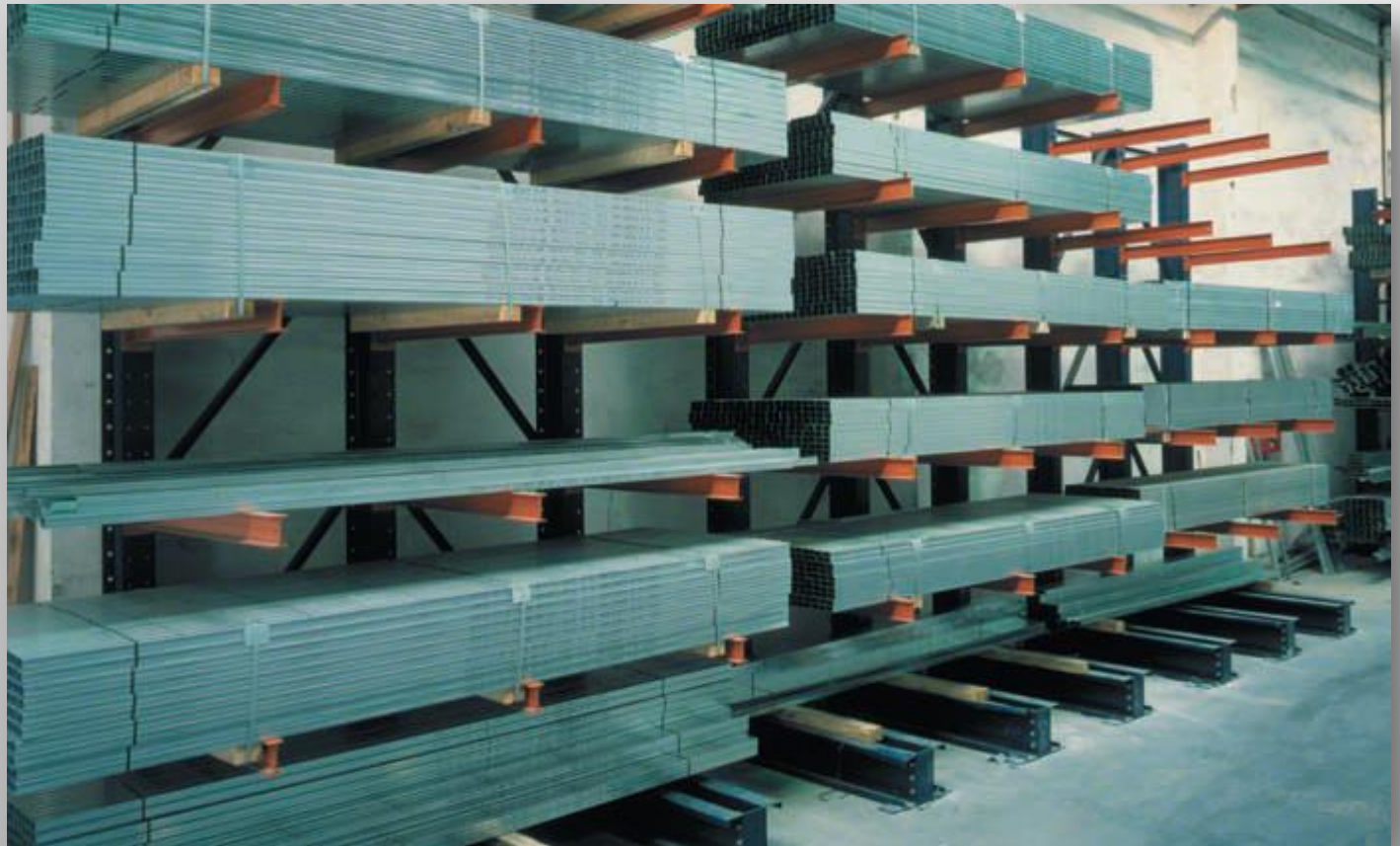


Cantilever Racking



Cantilever Racking

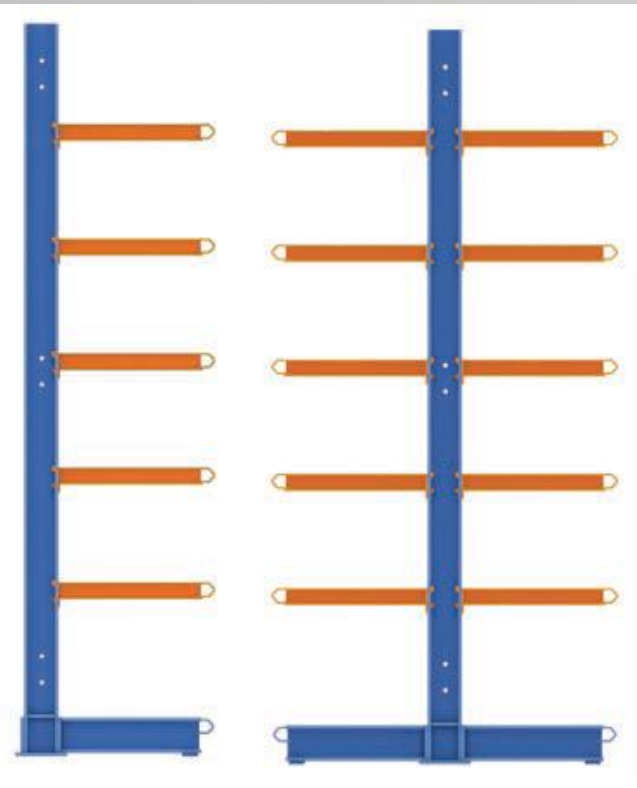
- Cantilever racking is specially designed to store long or varying length items, such as metal beams, pipes, moulding, wooden boards, metal and plastic sheets among other materials. The system basically consists of columns with a vertical beam and one or two horizontal beams at the base to provide stability. A series of arms are attached on which the load is placed. Loads may be handled manually when they are lightweight, or by using lift trucks or other appropriate lifting systems when heavy items are involved.



Single and Double sided Versions

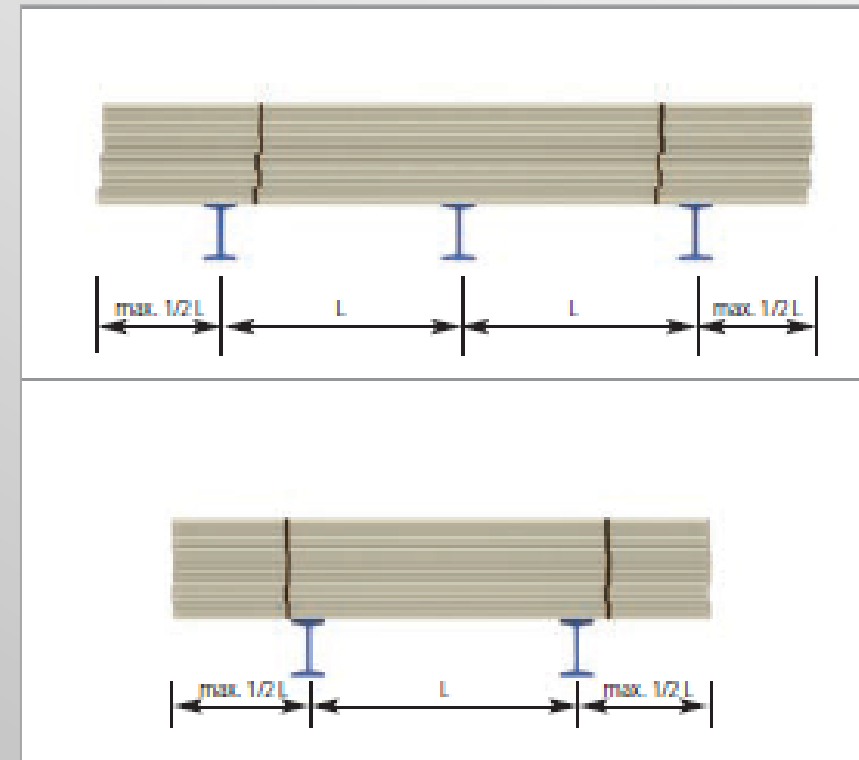
- The warehouse is laid out with a combination of single sided Cantilever, normally placed against the walls with access from one side only, and double sided Cantilever which can be accessed from both sides.

Single sided Cantilever Double sided Cantilever



Load Distribution

- For the distribution and calculation of these racks, the size, weight and rigidity of the goods, the handling equipment used (generally lift trucks) and the tolerance, among other factors, must be taken into consideration. Each load must be supported by at least two arms.
- Products may protrude from the sides of both arms by up to a maximum of 50% of the horizontal distance between adjacent arms, thereby ensuring stable support and uniform load distribution.

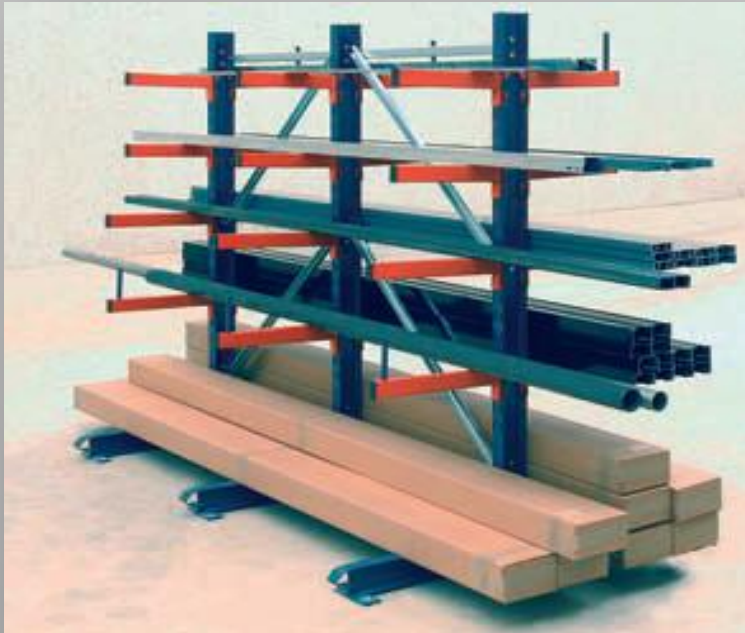


Construction Systems

- The choice of the most appropriate system depends on the characteristics of the product to be stored, in particular the weight, size and the height.

Light Duty Cantilever

This system has been developed for storing loads manually. All the elements involved fit together easily. The system is made out of beams appropriate for the loads placed on them.



Medium Duty Cantilever

This system is manufactured using the same easy-to-assemble, modular concept as the light Cantilever. They are made of beams appropriate for mechanically handled medium-weight loads.



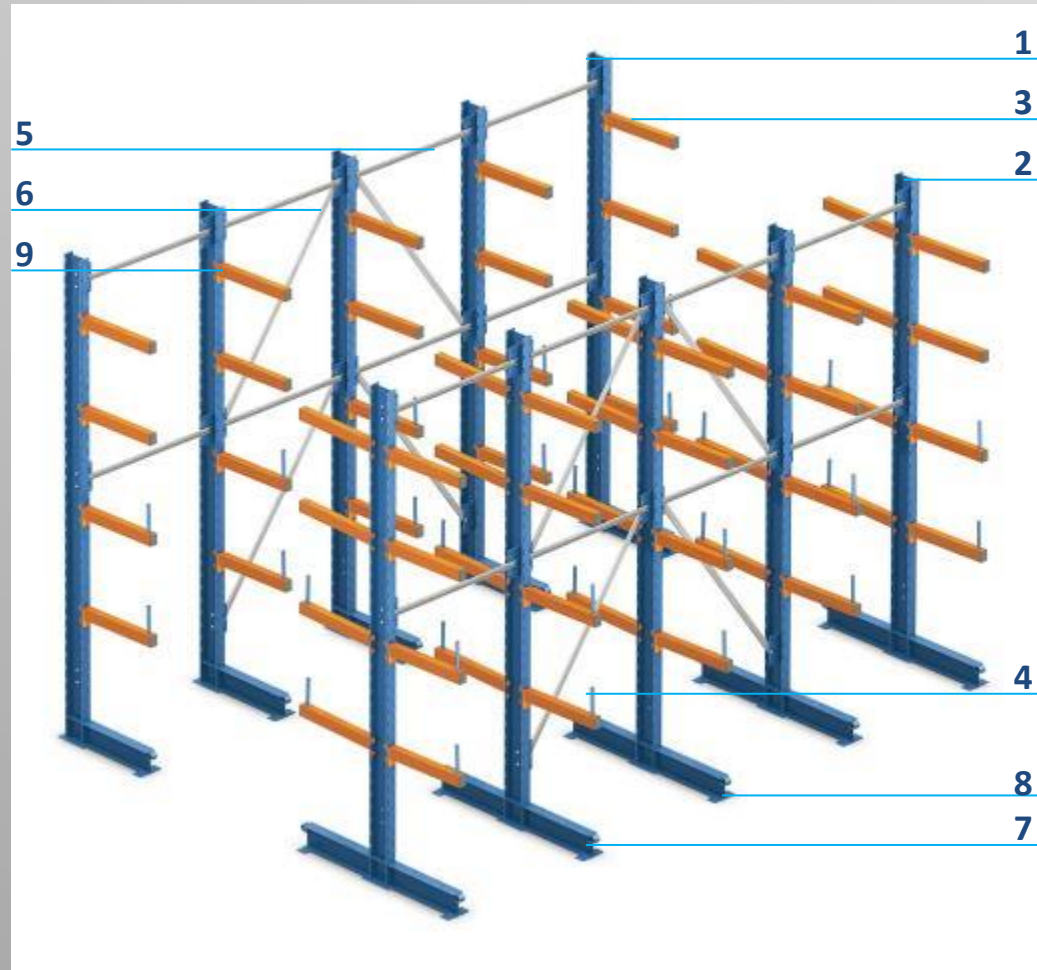
Heavy Duty Cantilever

This is the top-of-the-range shelving system, with a high-load bearing capacity for goods handled using lift trucks, mobile cranes, stacker cranes, and other such machinery. As with the other two systems in the range, it is easily assembled, with interlocking parts that provide excellent mobility.



Light Duty Cantilever

- This system is specially designed for manual loading. The columns have a base at the bottom and can be supplied at heights of 2, 2.6 and 3 meters. The slots in the column flanges mean that the individual arms can be placed at intervals of 66.66 mm. The system for attaching the arms to the columns does not require bolts or tools.



- 1
- 3
- 2
- 4
- 8
- 7

Detail of column/base

The columns and bases make up a single unit, manufactured from hot-rolled I-beams. The plates at the bottom provide support and enable the columns to be easily levelled and anchored to the floor, if required.



- 1. Single CTVL columns
- 2. Double CTVL columns
- 3. CTVL arms
- 4. Arm stops
- 5. CTVL column joints
- 6. CTVL cross bracing
- 7. CTVL levelling plates
- 8. Anchoring plates
- 9. Safety pin

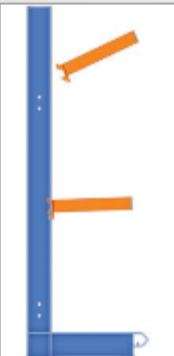
Arms

The arms are made of rectangular tube beams with hooks on one end for positioning and attaching to the columns. A plastic protector is attached to the protruding end. Once assembled, the arms slope slightly towards the column in order to provide extra safety. The most common arm lengths are 400, 500, 600 and 700 mm.



Stops

These are an optional extra. They are manufactured from 18-mm tube and have a plastic plug attached at one end that serves as a protector. They fit into an allocated hole at the protruding end of the arms.



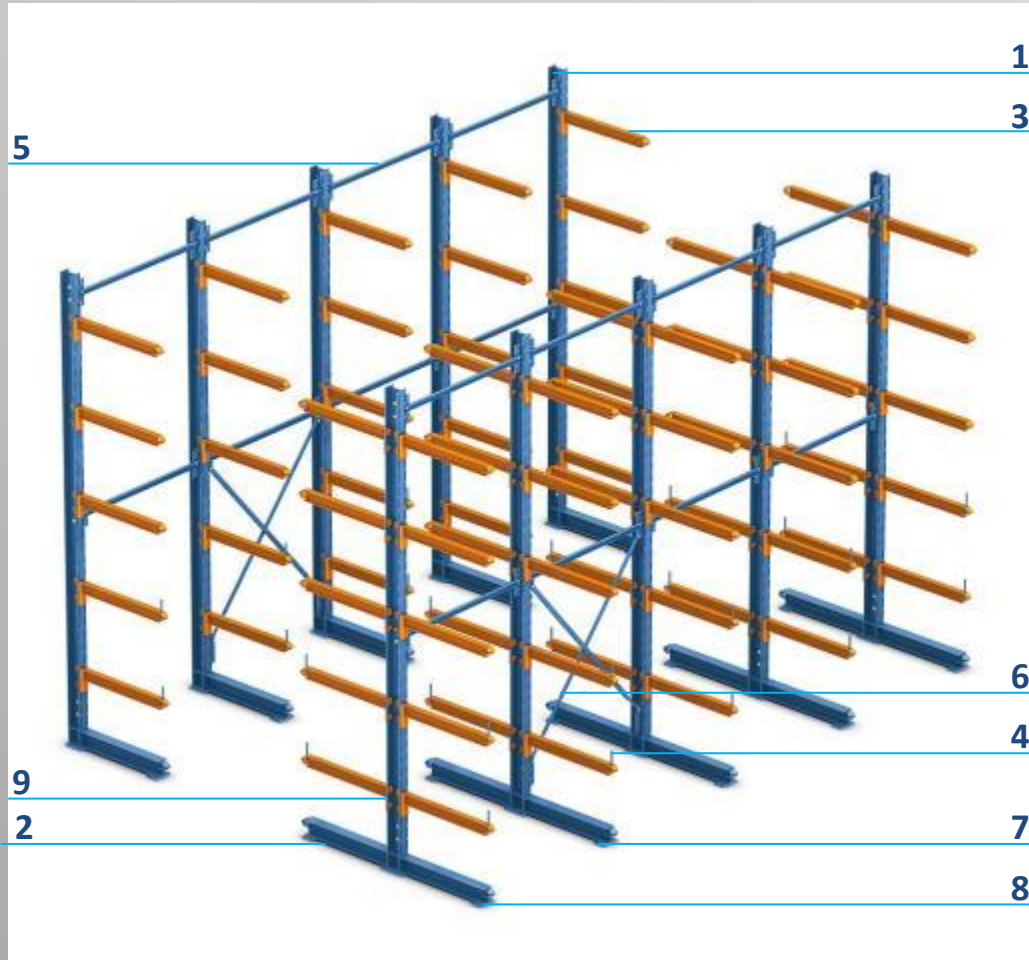
Safety Pins

These prevent the arms from accidentally slipping out of place.



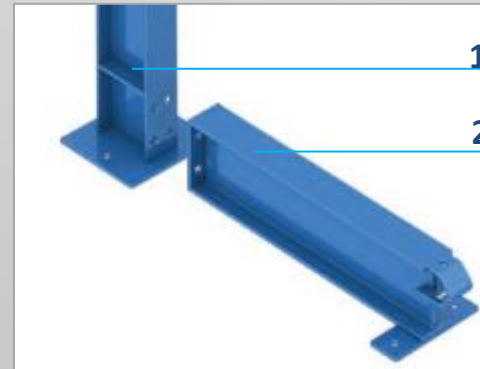
Medium Duty Cantilever

- This system is made of hot-rolled metal beams at heights of 3 - 4 m. It is designed to support medium loads. The parts are designed to allow the shelves to be assembled quickly and easily. The slots in the columns and the arm attachment system means the distribution of shelves can be changed easily.



Base Detail

The base is bolted to the column by means of an attachment plate. At the other end, the stop attachment parts facilitate placement of the loads. The plates are ready for anchoring to the floor.



1. CTVM columns
2. CTVM bases
3. CTVM arms
4. Arm stops
5. CTVMH column joints
6. CTVMH cross bracing
7. CTVM levelling plates
8. Anchoring plates
9. Safety pin

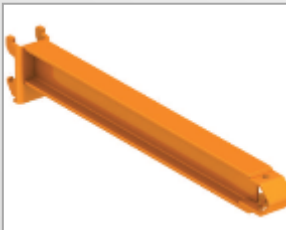
Columns

These are manufactured from IPE140 or IPE160 beams. The positioning of the slots means the arms can be placed at intervals of 66.66 mm. The core has attachment points for joints and cross bracing.



Arms

These are manufactured from IPN beams with hooks welded to one end for inserting into the slots on the columns. No tools are needed for their attachment.



Cross Bracing

Cross Bracing with tensioners and column joints connect columns together along the length of the system for rigidity purposes thus providing a solid stable structure.



Safety Pin

