

The logo consists of a large red square. Inside the square, the word "ROSSS" is written in a bold, white, sans-serif font. A small registered trademark symbol (®) is located at the top right of the letter "S".

ROSSS®

INGEGNO ITALIANO

UNIZINC

Assembly Instruction

Assembly sequence for Unizinc Click shelving system

- Frames
 - Beams
 - Cross bracings
 - Shelves
 - Blocking beams
 - Fittings (containers, back panels, etc..)
 - Mezanine and stairs
-
- The assembly team must be equipped with personal devices such as (helmet, gloves, safety shoes, safety belts, etc.) which are required to prevent accidents.

The shelving is designed for a specific use. Any alterations to the structure can be made only with the prior authorization of our technical department.

Provide inspections in time with the aim of identifying any anomalies that may not be found during the normal use of the structure.

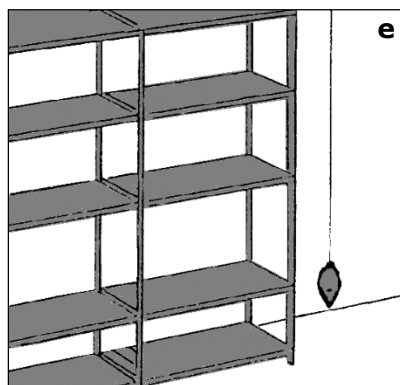
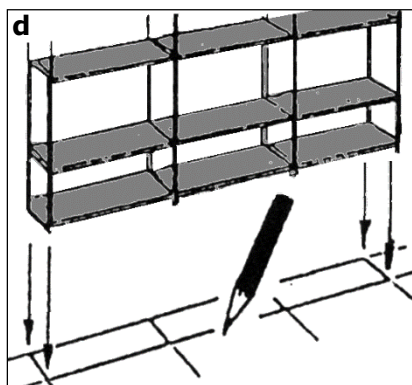
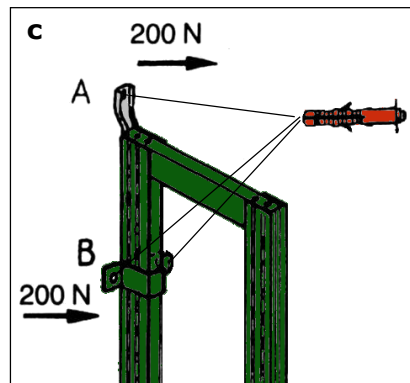
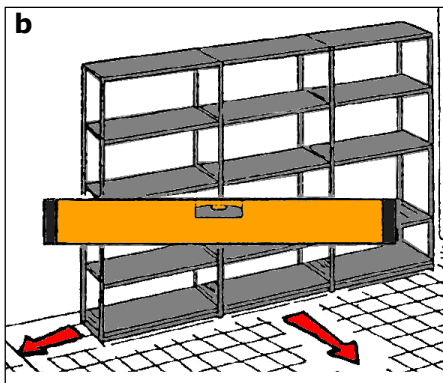
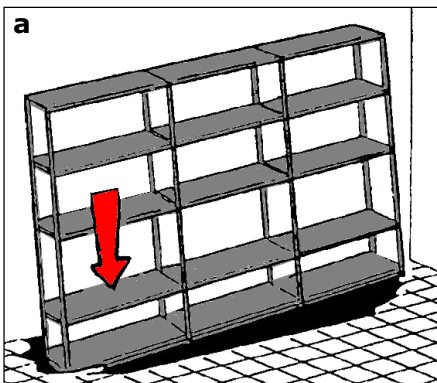
Carry out a scheduled maintenance on the system so as to avoid any possible dangerous situations that can cause accidents and injuries. Replacement of damaged elements is essential for the complete efficiency of the system.

We advise you to read carefully this assembly manual before starting the assembly.

If the assembly is carried out by the Customer, Rosss disclaims any liability for damage to things or persons caused by such activity.

PREPARATION FOR THE ASSEMBLY

- Check the load capacity of the floor
- Check the flatness of the floor
- Check that the anchor pull-out force is at least 200 Nm (20 kg)
- Mark the shelf position on the floor
- Assemble the shelves, aligning and leveling them in longitudinal and vertical direction



Single side shelves, whose height exceeds six times the depth of the shelf itself, must be anchored to the wall (in the upper part).

ASSEMBLY TOOLS

Before proceeding with the assembly you need all necessary equipment

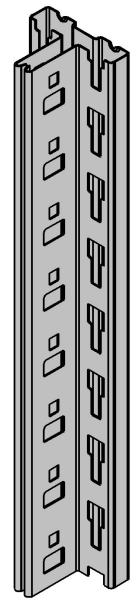
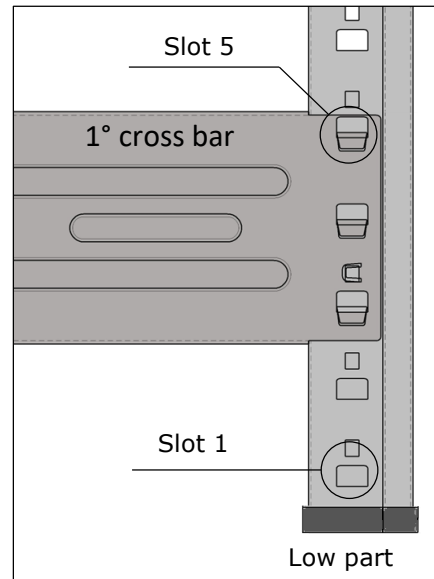


- set of spanners
- screwdrivers
- rubber hammer
- pliers
- drill
- level
- plumb line
- optical level
- meter

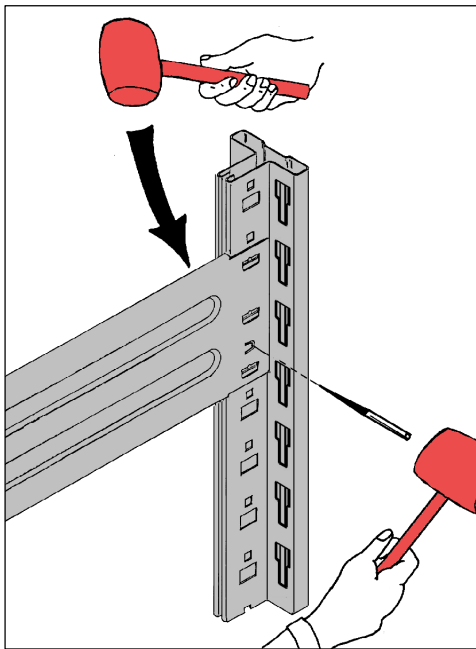
Assembly cross bar and footplate

Parte alta

H. Spalla	Q.tà Traversini	Posizione traccia superiore del traversino					
		1°	2°	3°	4°	5°	6°
1800	3	5	29	45			
2025	3	5	29	53			
2250	3	5	29	53			
2475	3	5	29	61			
2700	3	5	29	61			
3000	4	5	29	53	77		
3225	4	5	29	53	85		
3525	4	5	29	53	85		
3750	4	5	29	53	93		
4050	5	5	29	53	77	101	
4275	5	5	29	53	77	109	
4500	5	5	29	53	77	109	
4725	5	5	29	53	77	117	
5025	6	5	29	53	77	101	133
5250	6	5	29	53	77	101	133
5475	6	5	29	53	77	109	141
5700	6	5	29	53	77	109	149
6000	6	5	29	53	77	109	149



Low Part

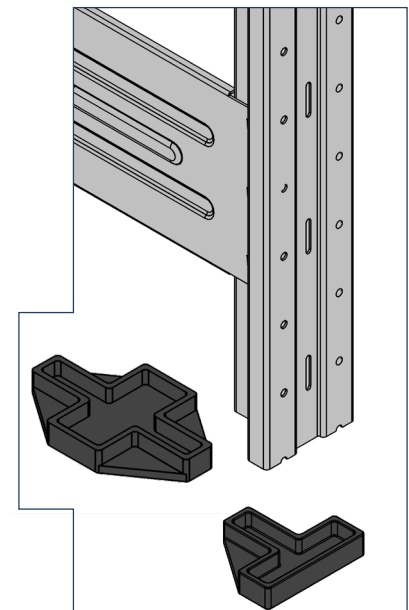
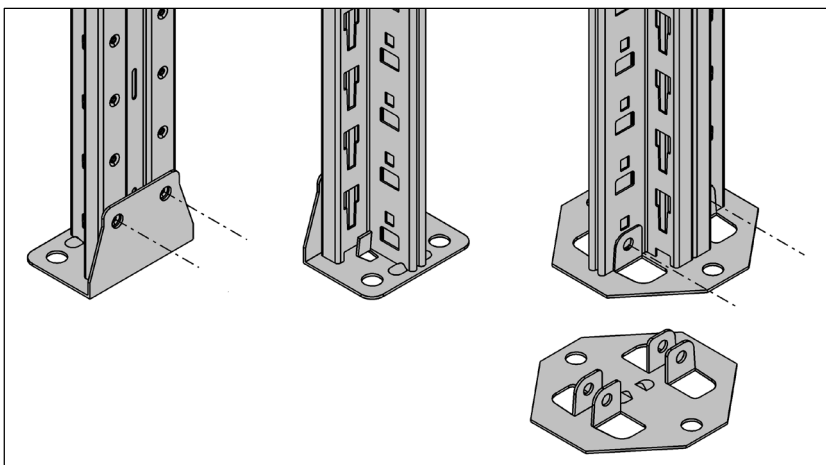


Before starting the assembly of the frames make sure that you have placed the uprights in the correct direction (top and bottom). Insert the cross bar in the internal slot of the upright (1) and lock it by bending the tab (2) towards the inside.

The single or double plastic feet are inserted in the lower part of the upright.

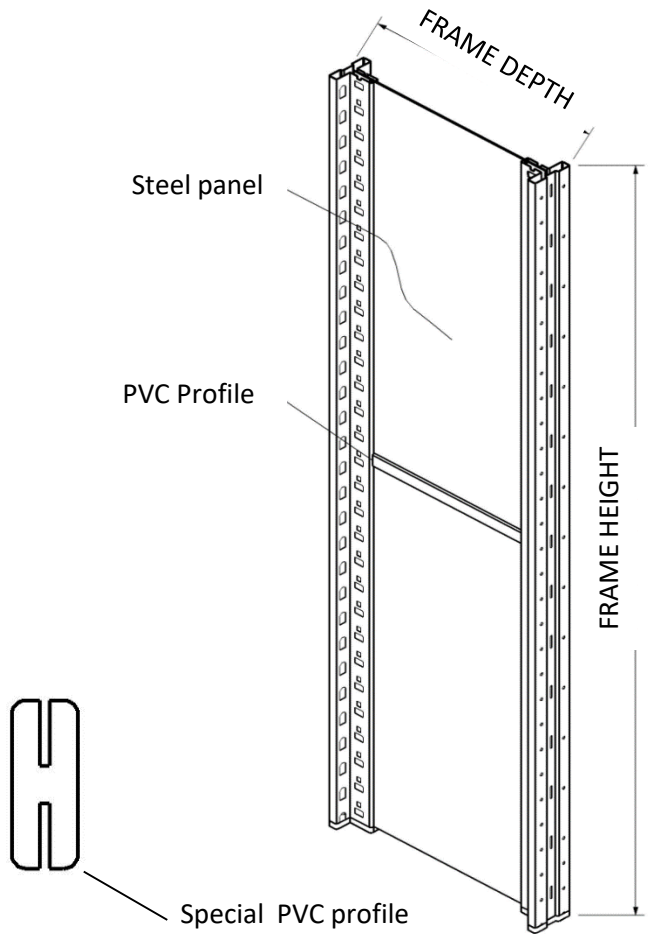
The single metal foot is inserted in the upright and fixed with 2 self-tapping screws M6,3x16.

The double metal foot is fixed to the uprights with two screws M5x20.

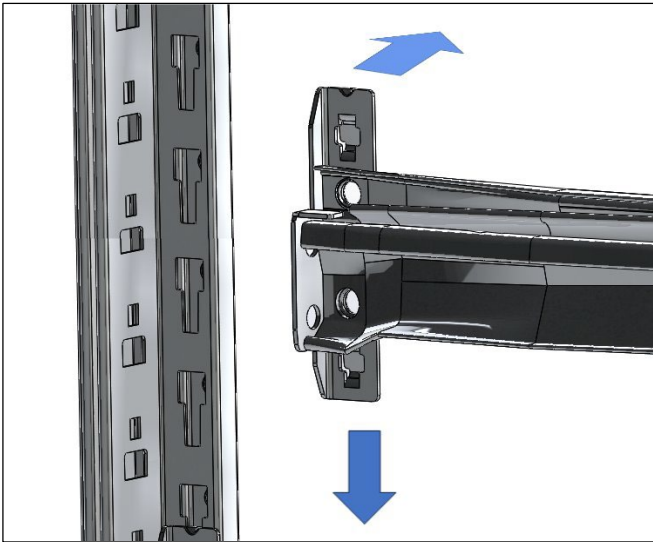


COUPLING BACK PANELS

Height frame	panel height					Profile PVC
	819	894	969	1119	1344	
1800	-	2	-	-	-	1
2025	-	1	-	1	-	1
2250	-	-	-	2	-	1
2475	-	-	-	1	1	1
2700	-	-	-	-	2	1
3000	-	1	1	1	-	2
3225	-	-	1	2	-	2
3525	1	-	-	-	2	2
3750	1	2	-	1	-	3
4050	-	-	-	-	3	2
4275	-	1	-	3	-	3
4500	-	-	-	4	-	3
4725	-	-	-	3	1	3
5025	-	-	1	-	3	3
5250	-	1	1	3	-	4
5475	-	-	1	4	-	4
5700	-	-	1	3	1	4
6000	-	-	2	-	3	4
6225	1	-	-	-	4	4
6525	-	-	-	1	4	4
6750	-	-	-	-	5	4
7050	2	-	-	-	4	5
7275	-	1	1	-	4	5
7500	-	-	1	1	4	5
7725	-	-	1	-	5	5
8025	1	1	-	2	3	6
8250	1	-	-	3	3	6
8475	1	-	-	2	4	6
8700	1	-	-	1	5	6
9000	-	-	-	2	5	6

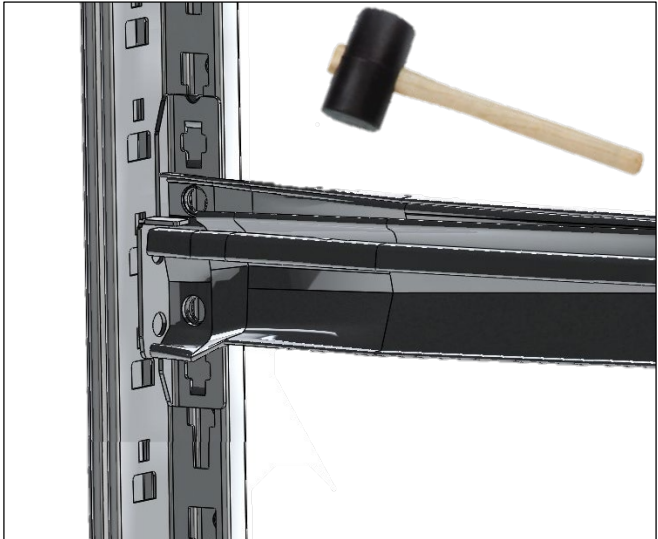


BEAMS ASSEMBLY

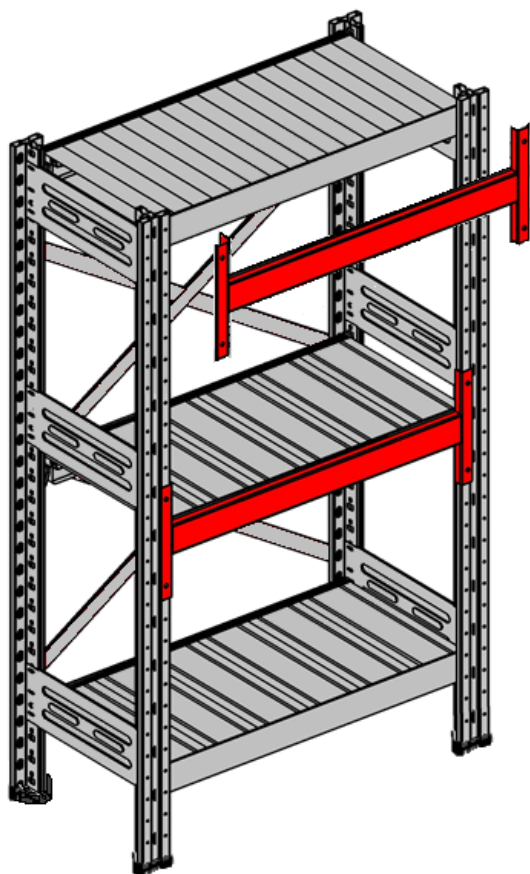


Insert the beam into the slots of the upright, then tighten it by pushing down.

For the latter operation, it is recommended to use a rubber hammer.



BLOCKING BEAM



Fix the blocking beam to the upright with self-tapping screws M 6.3 x 16.

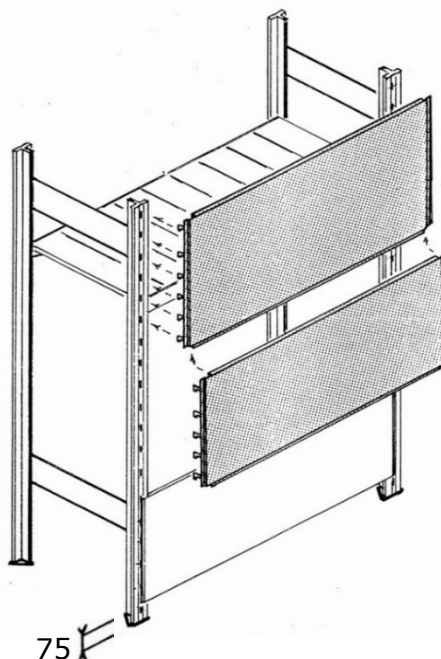
The C-profile of the blocking beam shall be fitted in the beam of the shelf.

The first blocking beam shall be placed at approximately 1000 mm above ground level.

The other blocking beams have to be placed within the height of the cross bracings

COUPLING BACK PANELS

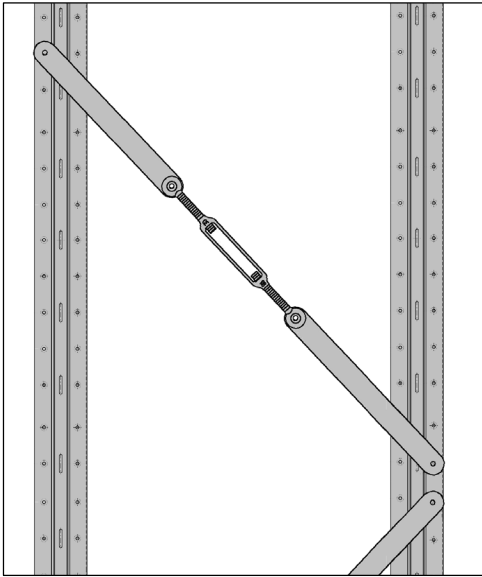
H. FRAME	PANELS QUANTITY	
	from 450mm	from 375mm
1800	3	1
2025	1	4
2250	4	1
2475	2	4
2700	5	1
3000	4	3
3225	7	-
3525	6	2
3750	4	5
4050	8	1
4275	6	4
4500	9	1
4725	7	4
5025	11	-
5250	9	3
5475	12	-
5700	10	3
6000	9	5



Start the installation of the back panels from the top side of the frame following the measurements sequence shown in this table.

The compositions have been calculated so that there will remain a 75 mm ground clearance at the bottom.

CROSS BRACING ASSEMBLY FOR BAY

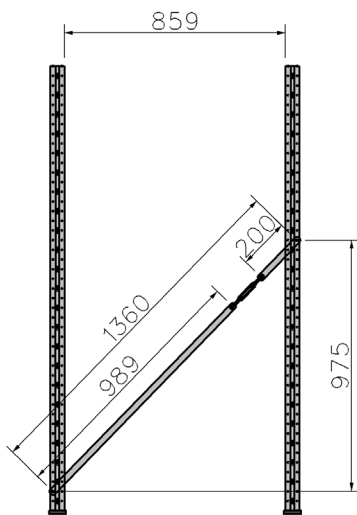


The cross bracing must be fixed into the outer holes of the upright with screws M6x40, nut and washer.

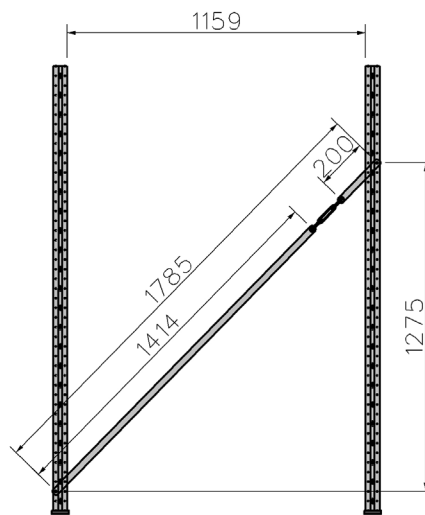
The tie rods must be fixed between the two diagonal pieces with screws M6x20, nut and washer.

In case of two cross bracings, the second one will have to be fixed to the first useful perforation just after the first bracing has been placed.

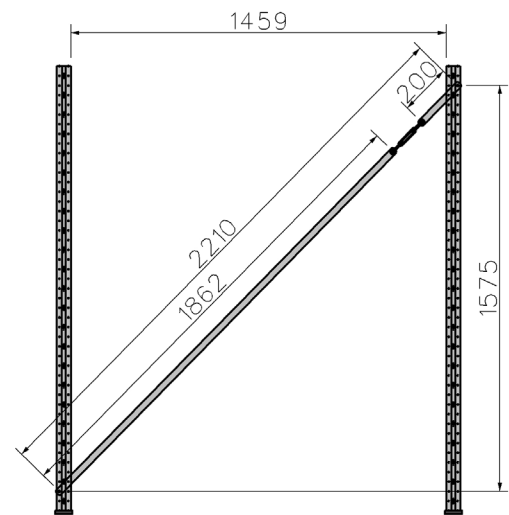
Below the diagonal measurements and height pitch for the various configurations.



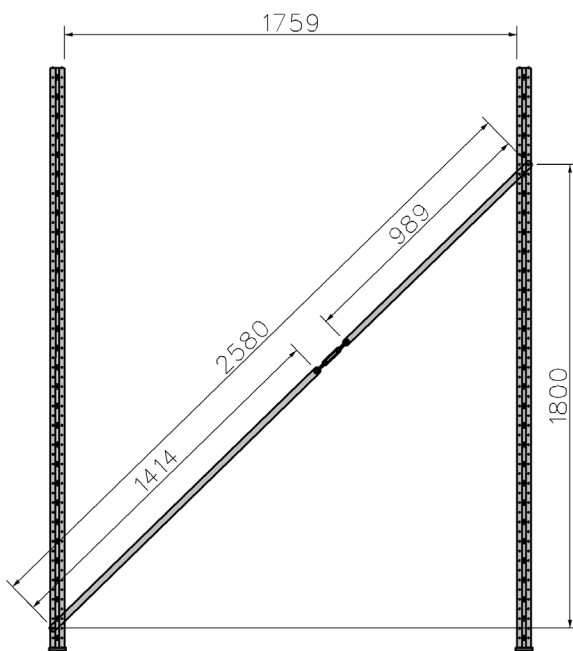
BAY 900 mm



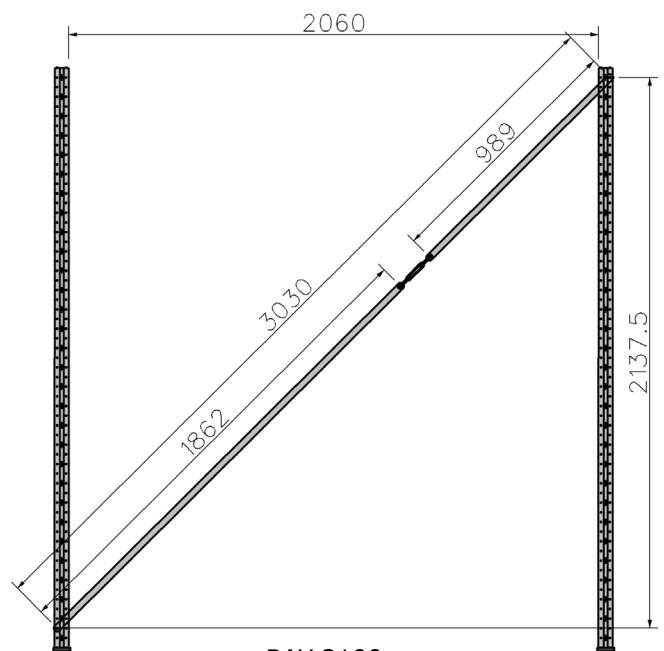
BAY 1200 mm



BAY 1500 mm

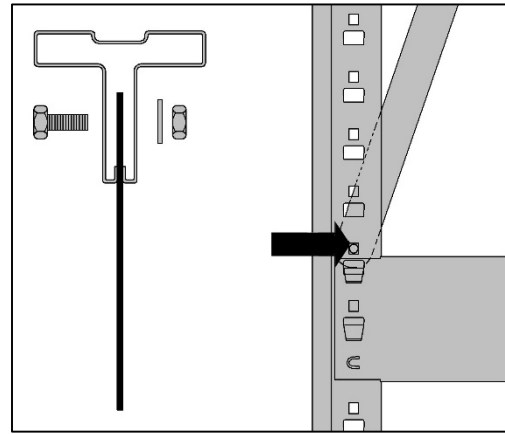
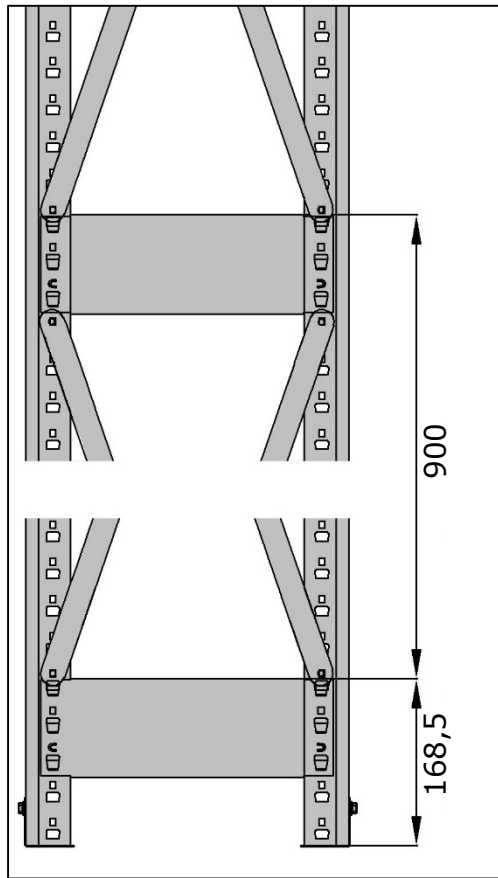


BAY 1800 mm



BAY 2100 mm

CROSS BRACING ASSEMBLY WITH FRAME

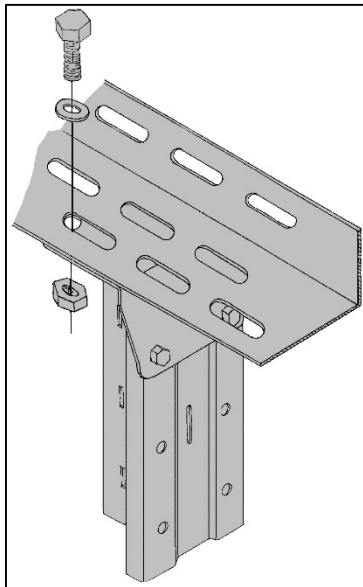


The diagonals of the cross bracings must be fixed inside the upright, into the first useful slots just after that the cross bar has been placed.

For fixing use M6 x 25 screws, M6 nut and 6.3 x 24 washer.

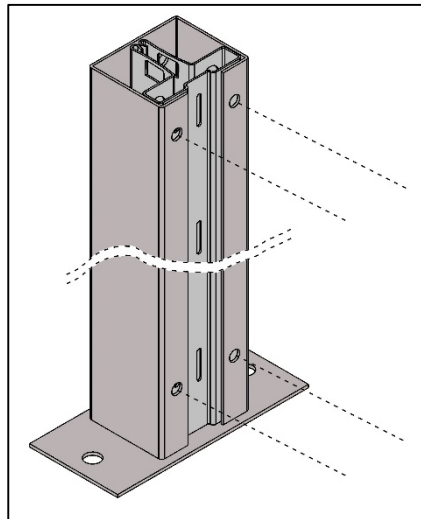
VARIOUS ACCESSORIES

ANGLE CLAMPING



Keep the upside-down foot on top of the upright and fix it, by locking the angle with M8 x20+Nut+Washer screws.

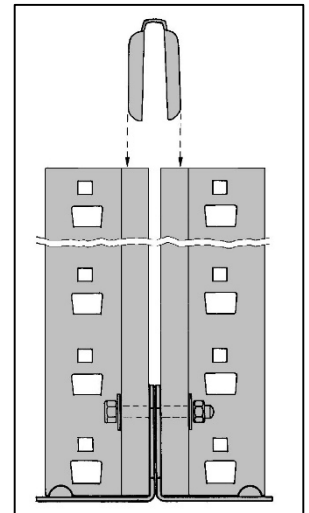
UPRIGHT REINFORCE



Insert the UNIZINC upright into the profile. Then fix the profile to the upright with self-tapping screws M6,3 x 19 at the holes.

Fix the reinforcement foot to the ground with 2 concrete anchors.

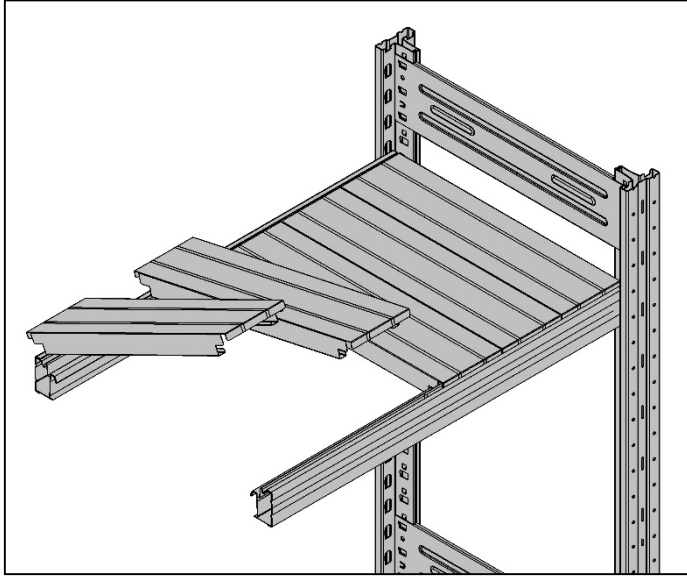
FRAME COUPLING



The upright with galvanized feet must be coupled with two screws M 4 x 35 + nut+ washer.

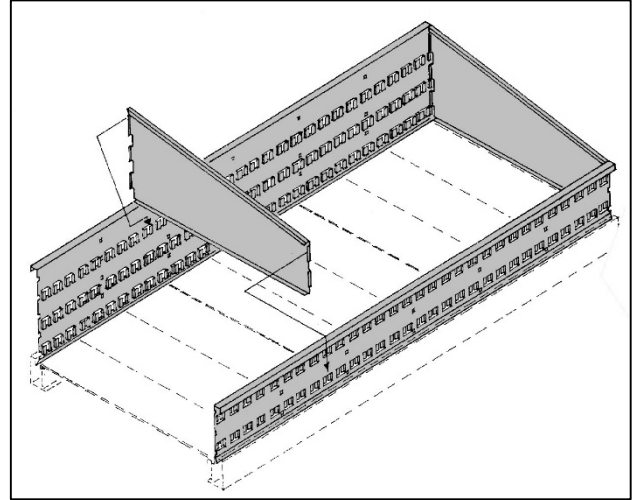
On the upper part they have to be coupled with the appropriate hook.

SHELVES



Insert the shelves into the beam groove.

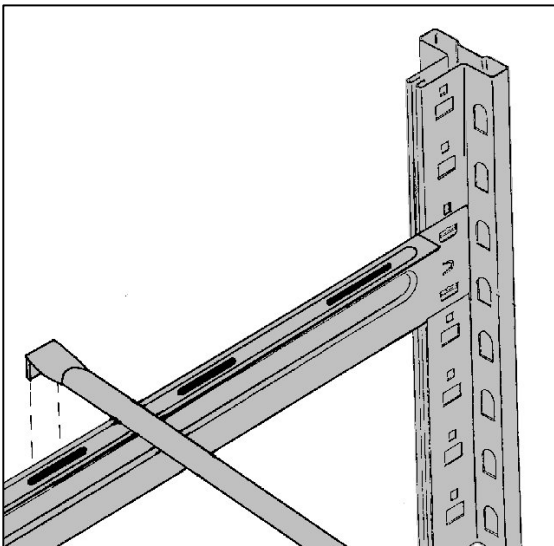
CONTAINER



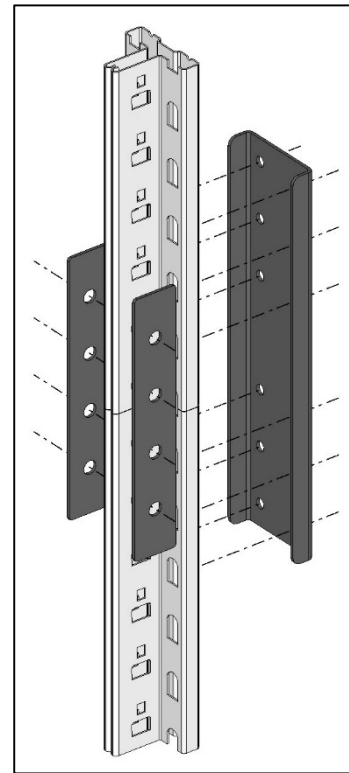
Place the front and rear sides on the shelf. Then insert the dividers into the slots of the side elements.

UPRIGHT JOINT

HANGING ROD

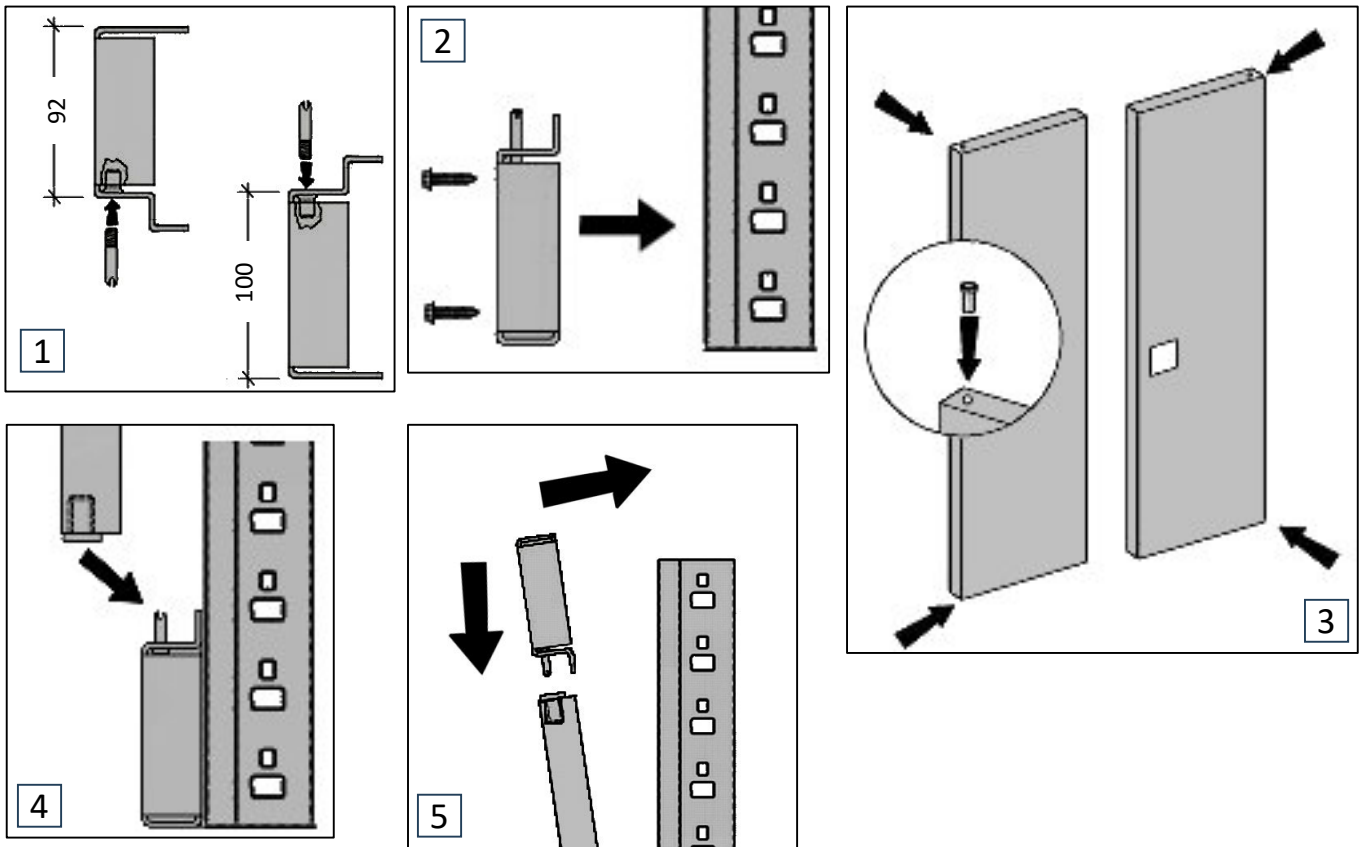


Follow the instruction of standard cross bar to fix the hanging rod. Insert the hanging rod into the eyelets on the cross bar.



Fix the front profile with 12 self-drilling screw M6,3x16.

Use 4 screws M8X25 + nut + washer for the two back plates.



Fix the pins at the ends of the lower (100 mm) and upper (92 mm) band, by screwing them into the threaded bushings [1].

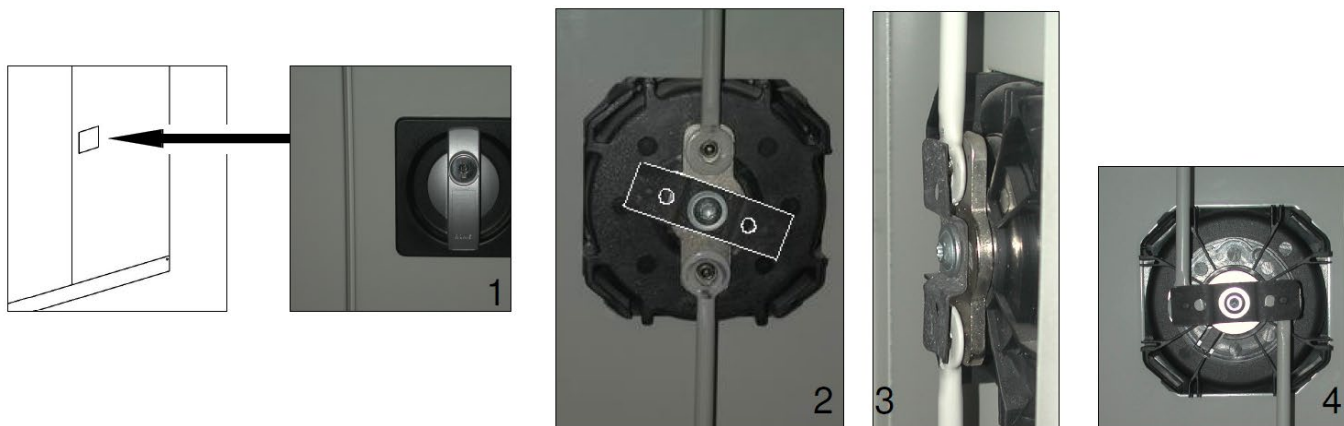
Place the lower band at the base of the shelf, then fix it with self-tapping screws M 4,8 x 9,5 at the first two front holes of the upright [2]. Then close the front holes with black plastic caps.

Fix the brass bushings into the holes at the ends of the doors [3], then insert the doors into the pins of the bottom band [4].

Fix the top band with the pins in the door bushes, place the doors and bands on the uprights and fasten them immediately with self-tapping screws M 4,8 x 9,5 on the front of the upper band [5].

Then close the front holes with the black plastic caps. Finally apply the 4 felts on the edges of the doors, where they can lay on the upper and lower bands.

In case of a raised door, first of all assemble the low flap with the lower and middle bands, then the high flap with the upper band.



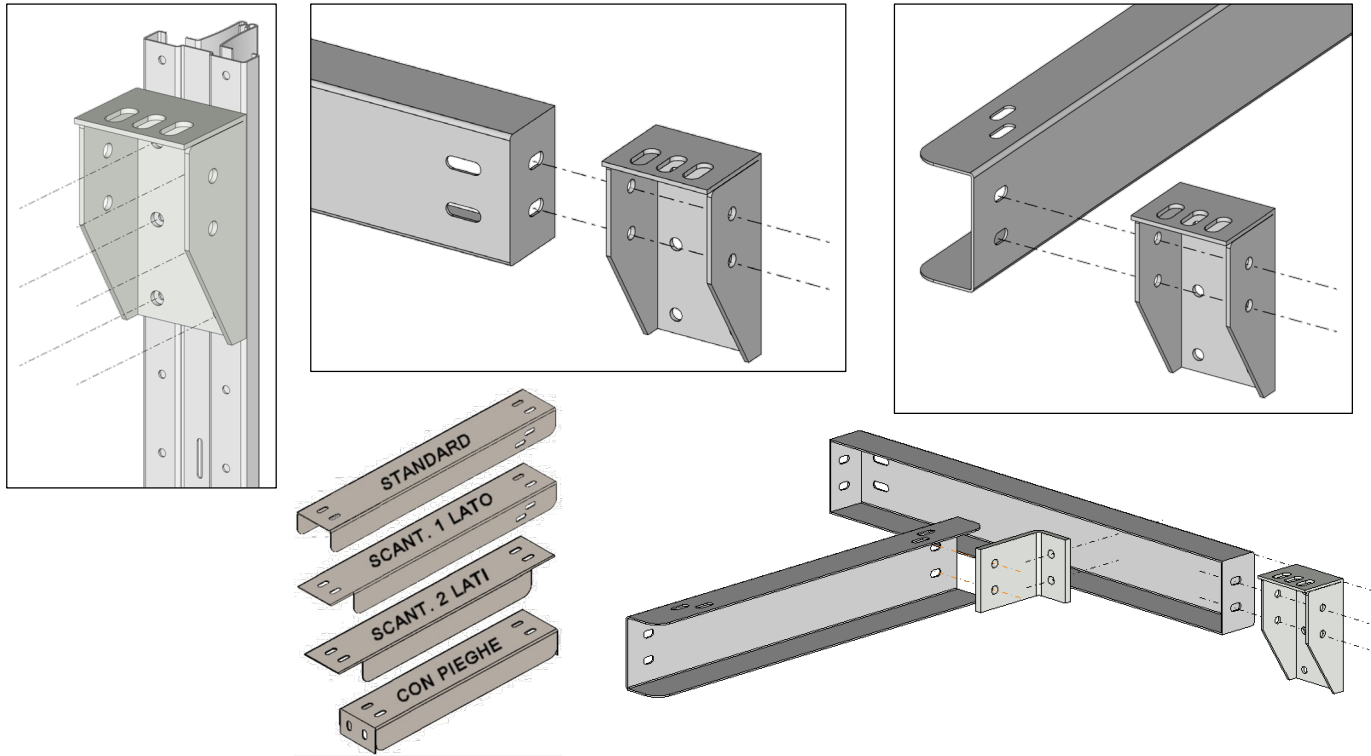
Press the lock into the door hole [1].

Insert the clips into the lower and upper holes of the door, then close the door and insert the rods into the holes of the upper and lower band [2].

Insert the eyelets of the rods into the pins of the lock , then lock the eyelets by turning the tab [3].

Finally, turn the lock to check that it is working correctly [4].

COMPONENTS FOR MEZZANINE - BEAM OF 70 MM



Fix the mezzanine bracket on the upright with self-tapping screws M6,3x16.

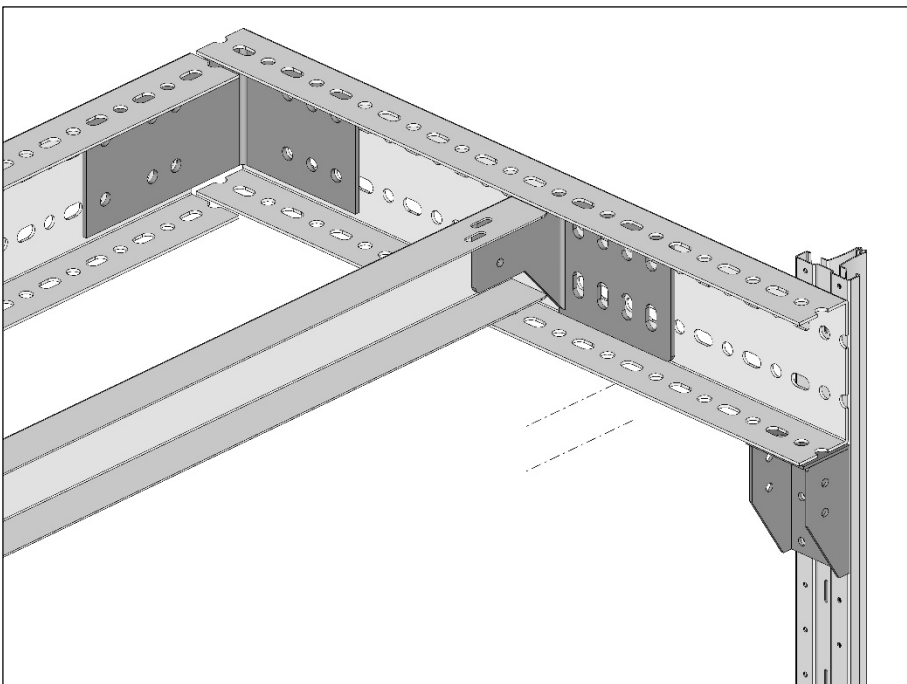
Fix the beam 70mm on the bracket with screws M6x16+Nut+Washer.

The type of beam to be used: refer to the layout of the plant provided with the material list.

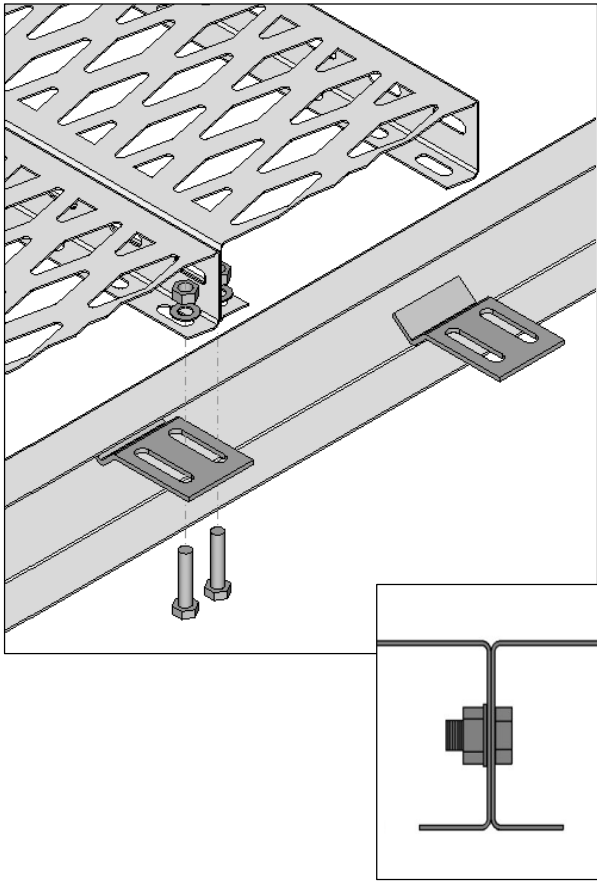
To join the beams of 70mm use the L-shaped bracket, drilling on site if necessary, and fix with screws M6x16+Nut+Washer.

COMPONENTS FOR MEZZANINE - BEAM OF 120 MM

Fix the beam 120 mm on the bracket with screws M6x16+Nut+Washer.



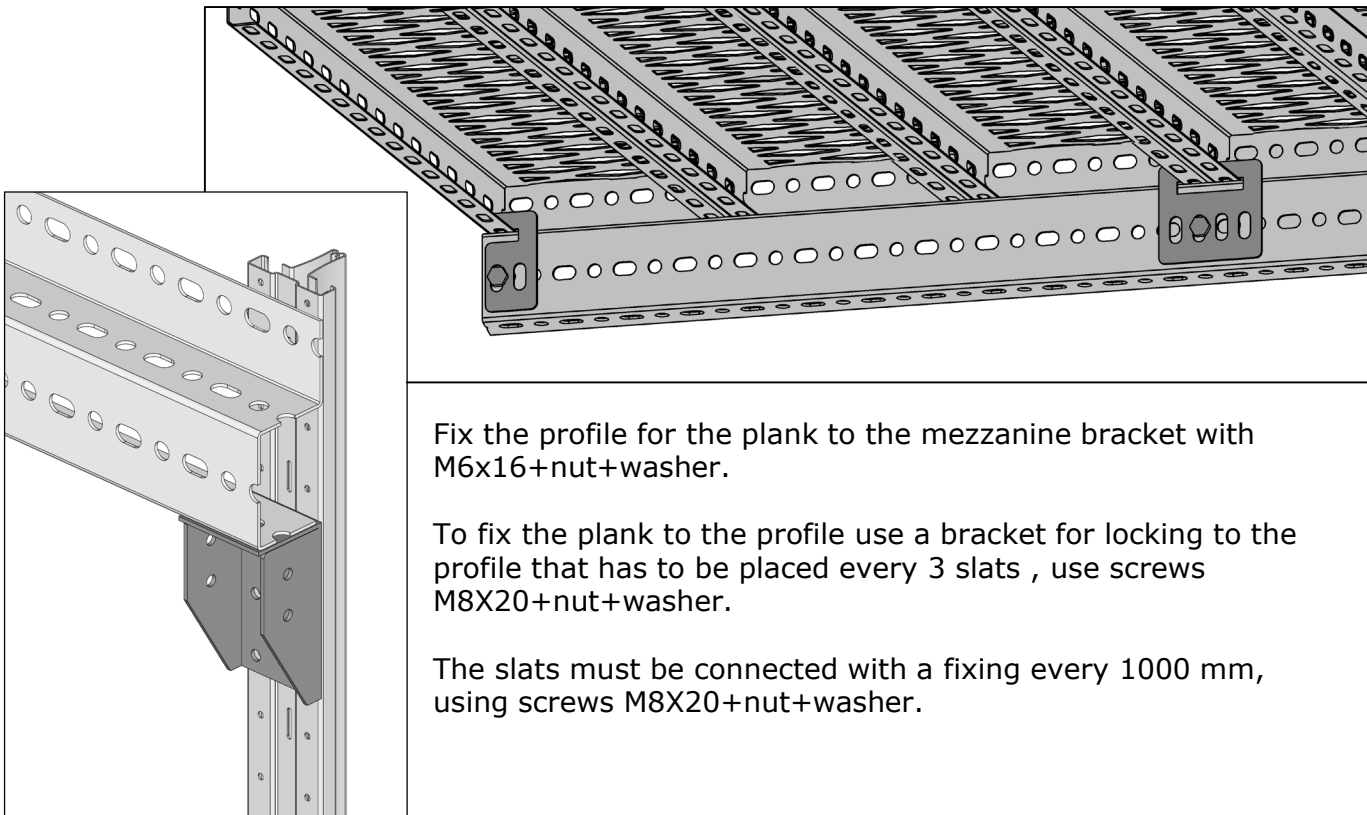
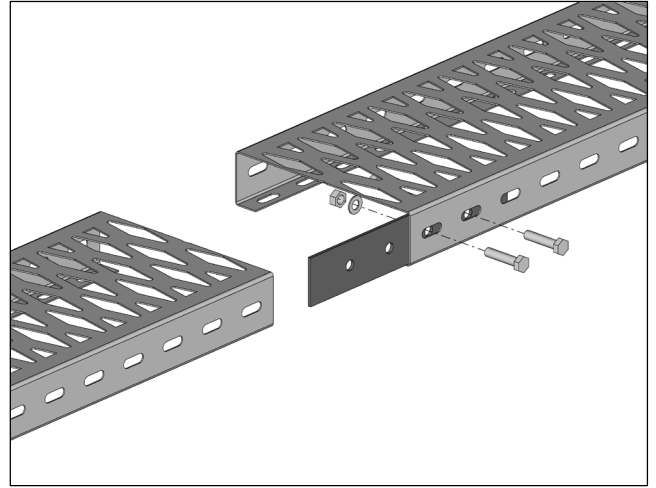
To join the 70 or 120 beams, use the fitted brackets with screws M6x16+nut+washer for the 70 beam and screws M10x25+nut+washer for the 120 beam.



To fix the plank to the beams, use the appropriate locking bracket; use 2 screws M8X20+nut+washer.

Use one bracket every 3 planks.
The slats must be connected with a fixing every 1000 mm, using screws M8X20+nut+washer.

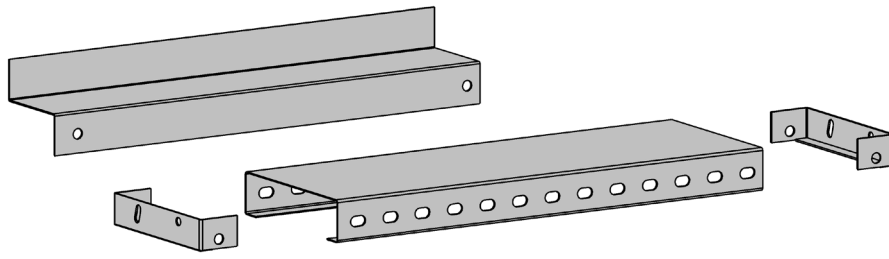
The outer slats must be connected with the joint bracket with screws M8X20+nut+washer



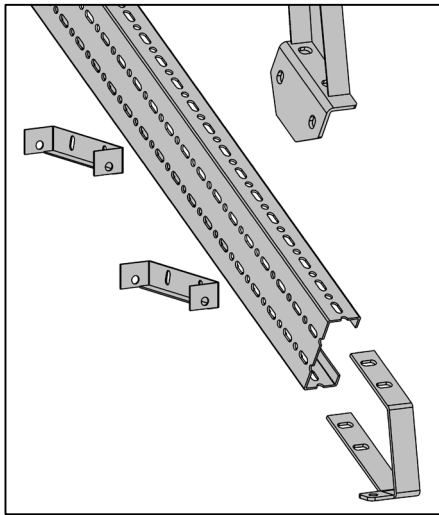
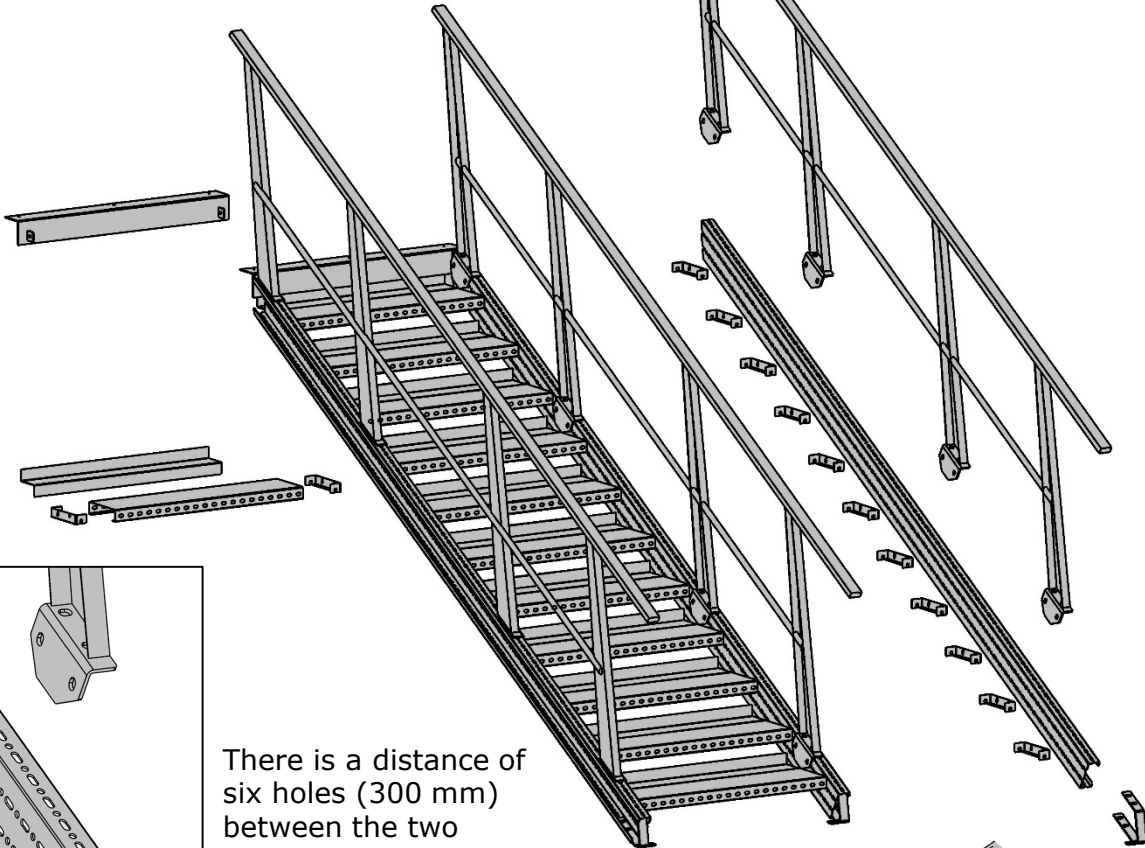
Fix the profile for the plank to the mezzanine bracket with M6x16+nut+washer.

To fix the plank to the profile use a bracket for locking to the profile that has to be placed every 3 slats , use screws M8X20+nut+washer.

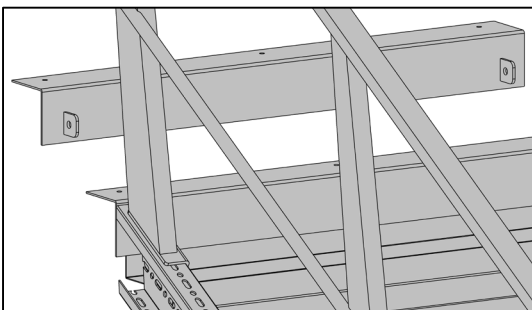
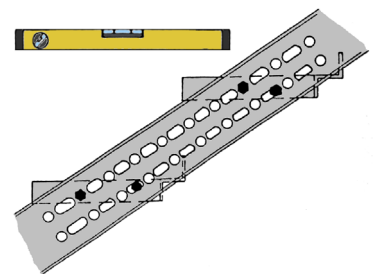
The slats must be connected with a fixing every 1000 mm, using screws M8X20+nut+washer.



Insert the right and left headboards then assemble the kickrail with the step using screws M8X20+nut+washer.



There is a distance of six holes (300 mm) between the two steps. Check the flatness of the steps with a water level and then lock them with bolts M10x20+nut+washer.



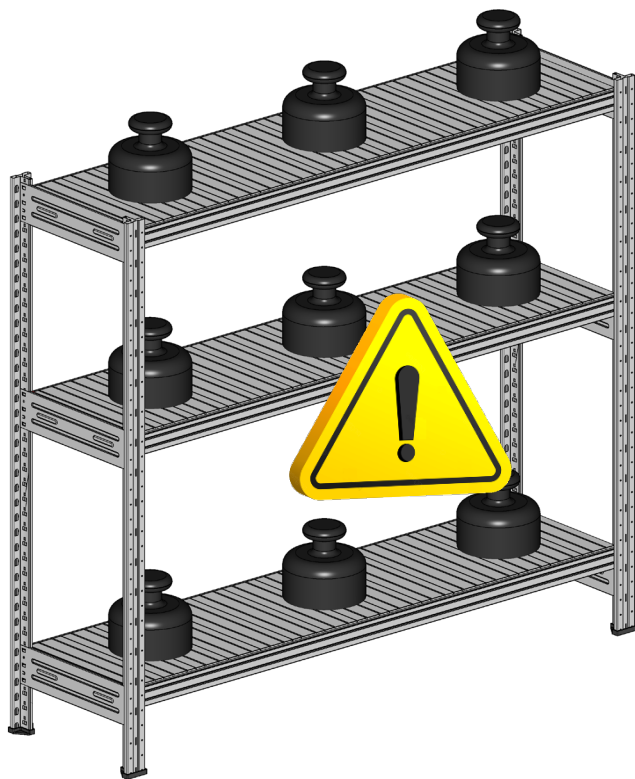
Put the right and left foot internally inside the stair stringer and fix with screw M10x20+nut+washer. Secure the feet to floor with expansion dowels. Secure the landing profile to the stair with bolt M10x20+nut+washer so that the plate of the landing profile result to be externally from the stair stringer; lock the landing profile to the mezzanine with screws M8x30.

Lock the railing to the staircase with screws M10x20+nut+washer.

The bracing panels must be fixed under the stair stringer with six screws M8x20+nut+washer, assemble them starting from the lower part of the ladder.

1. Changes to the shelving layout must always be made by downloading the relevant sector.
2. An anchoring in accordance with the assembly instructions is a mandatory for the shelving stability.
3. We strictly advise you to observe the maximum load capacities for the shelves.
4. The load capacity figures are valid for evenly distributed loads.
5. Avoid unloading all of a sudden heavy loads from the shelves.
6. Climbing on shelves and frames is strictly prohibited.
7. Avoid bumping on the shelving with transport or service vehicles.
8. Sidewall shelves should be adequately protected at corners and along transit corridors.

LOAD CHARGE CAPACITY



**FOR THE SHELVING
LOAD CAPACITIES,
PLEASE REFER TO ROSSS
TECHNICAL LISTS**