



**MODULAR WALL SYSTEM  
SOLID MINERAL SURFACE PANEL**

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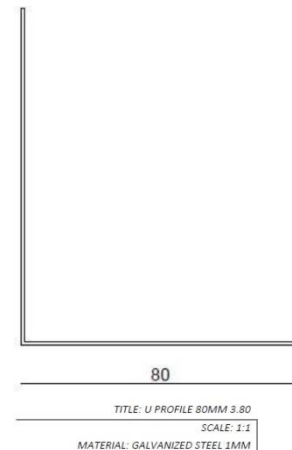
## 1. General information

Self-supporting and flexible wall system. The prefabricated wall panel system can be modified at any time and that makes it a great choice for working areas. High durability is provided, whereas the modular grid system consists of metal bended profiles which can be installed over the total room height. Prefabricated panels have a height up to 3.05m, suitable for rooms up to 3.15m false ceiling height. The antibacterial HPL 10 mm thick panel is followed by Indoor Advantage Gold PEFC Certificate of conformity ISO 22196:2011.

## 2. Set up your system

Setting up your Axis Medical Modular Wall System involves these steps:

- Installing floor rails
  - Installing ceiling rails
  - Installing steel columns
  - Installing L type rails
  - Installing horizontal beams, where necessary (door & window frames, etc.)
  - Screwing blades to panels
  - Installing panels to substructure
  - Joint covering
  - Installing hygiene corners
- 
- Installing floor rails



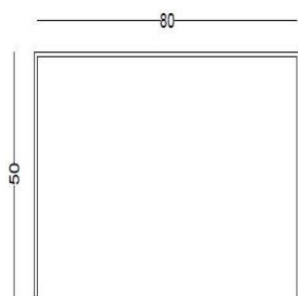
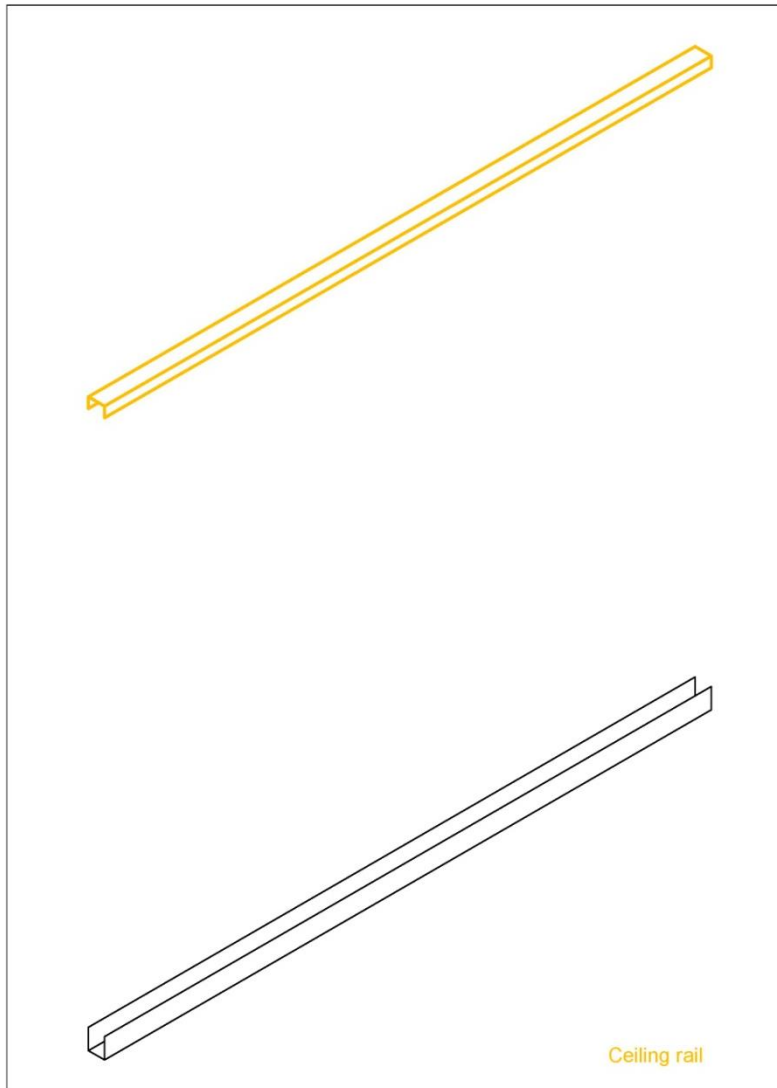
After locating where the wall is going to be installed, first step should be the marking on the floor, ceiling and points where unusual framing may exist.

Marks should be drawn by light pencil line and used as a guide in order to avoid wastage and reassure the accuracy of the installation.

The floor rail profiles, which assemble the wall system, are made of galvanized steel, have a depth of 100mm, width of 80mm and their profiles are U-shaped.

They are placed bolted, using screws or nails, on the ground surface where the wall panels are going to be installed.

- Installing ceiling rails

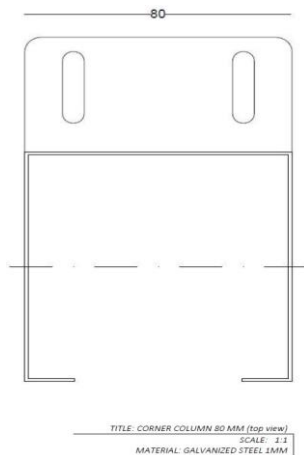
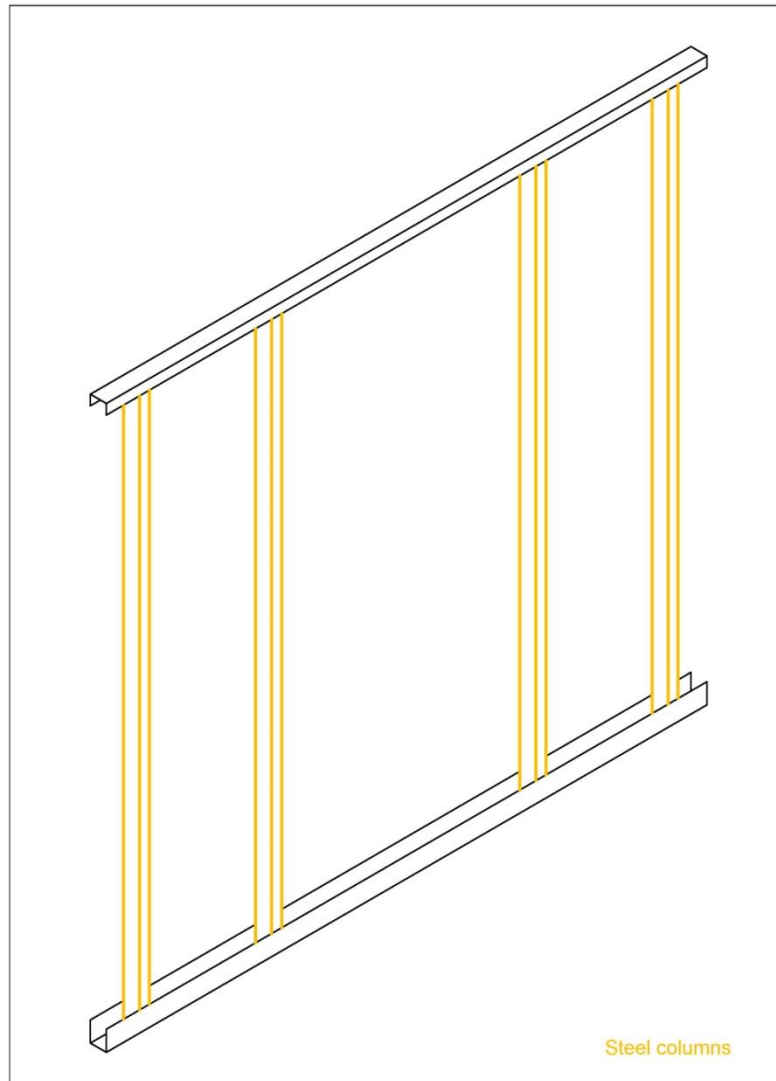


Marking the location is also important when installing the ceiling rails. Those are made of 1mm galvanized steel, have a width of 80mm, depth of 50mm and are installed bolted on the ceiling using screws or nails.

We suggest that you use concrete screws for maximum efficiency both on ceiling and floor rails.

TITLE: CEILING PROFILE 80 MM  
SCALE: 1:1  
MATERIAL: GALVANIZED STEEL 1MM

- Installing steel columns



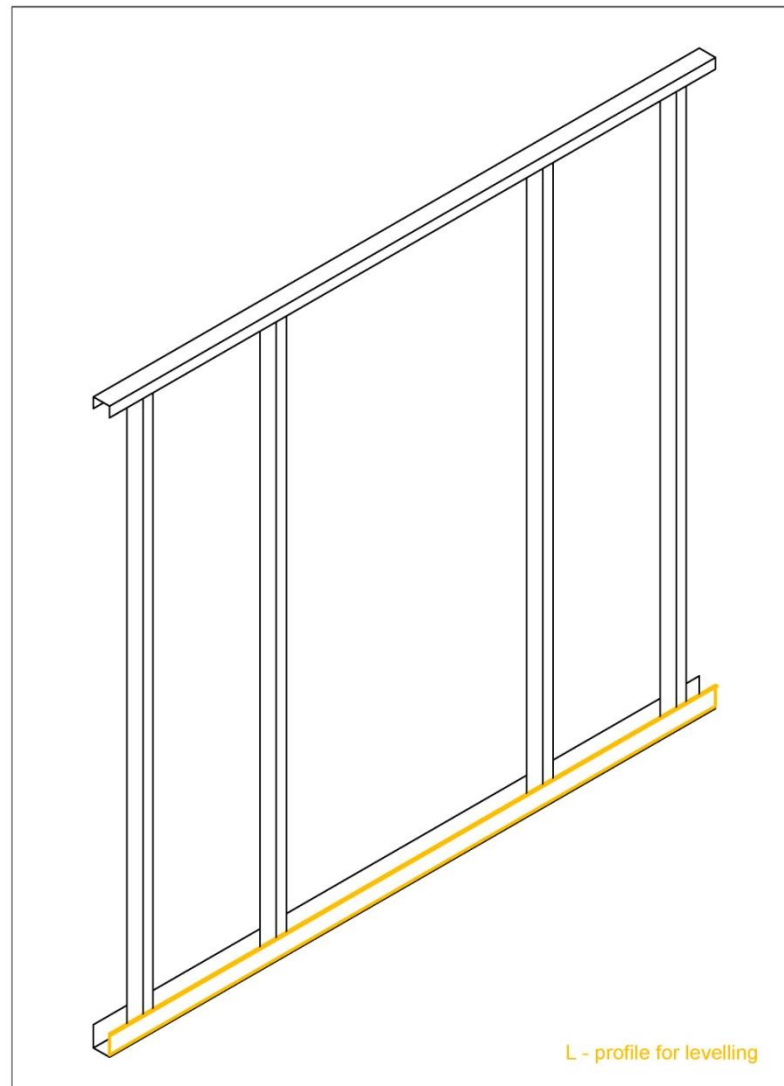
Steel columns act as the support for the rest of the wall system and provide stability, withstanding the panel loads.

The columns used by Axis Medical are made of 1mm galvanized steel, have a width of **80mm**, depth of **50mm** and they are prefabricated at the same height of the free height from slab to slab. They should be installed with screws to the floor rail and the ceiling rail.

**Note:** The size of the columns and rails can differ, is customizable.

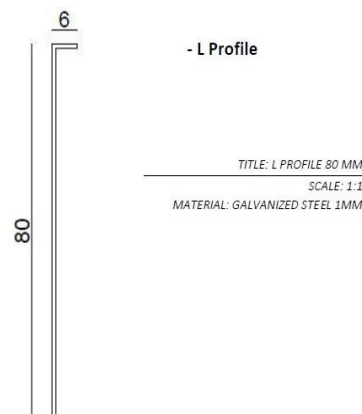


- Installing L type rails

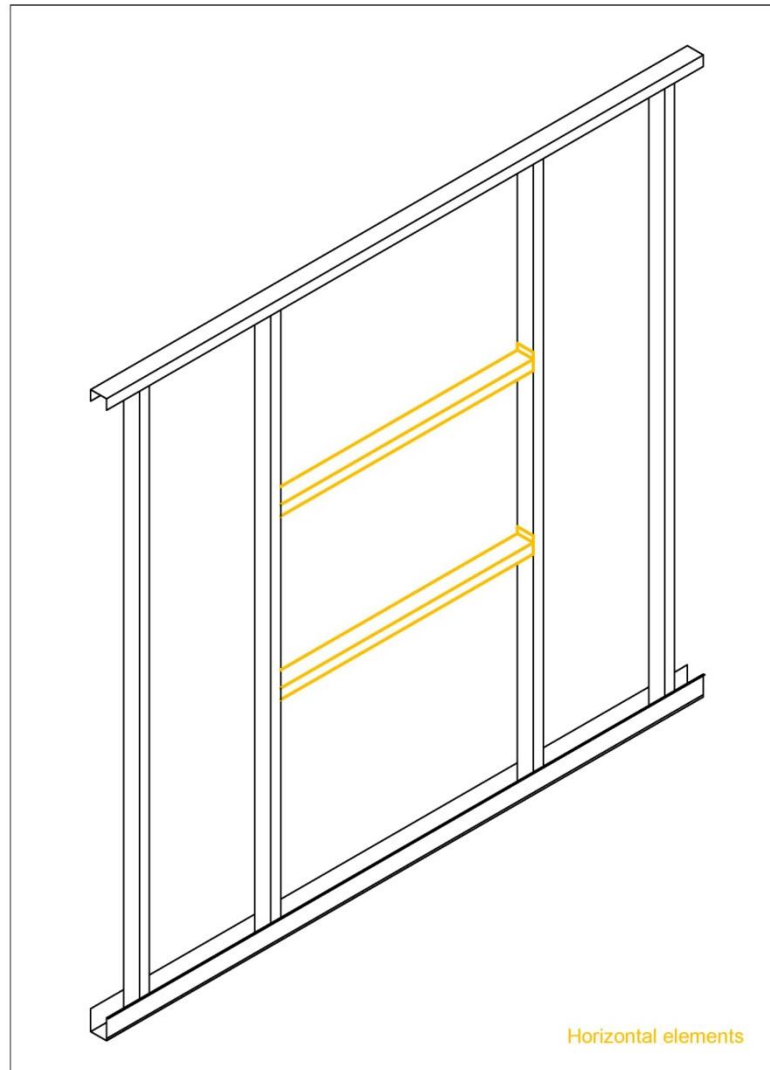


The L shaped floor rails are made of 1mm galvanized steel and have high load capacity. They are horizontally leveled via a high precision leveler and are mounted with screws and dowels on the U base rails.

When leveling, it is also important to establish a solid **100mm** height difference between the upper surface of the rail and the finished floor level.

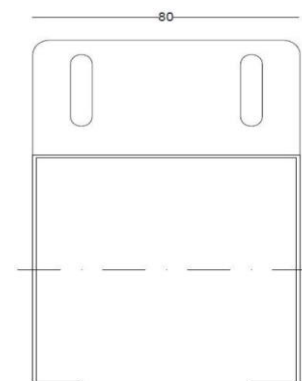


- Installing horizontal beams



Along with the previously described elements, extra horizontal beams are installed in the substructure to fix and support built in components such as scrub units, cupboards, cabinets, PC workstation, X-Ray viewer, medical gas outlets, equipment rails, etc.

Reinforcement elements (steel corner columns) are installed in the substructure for installation of door- and window frames, as well.

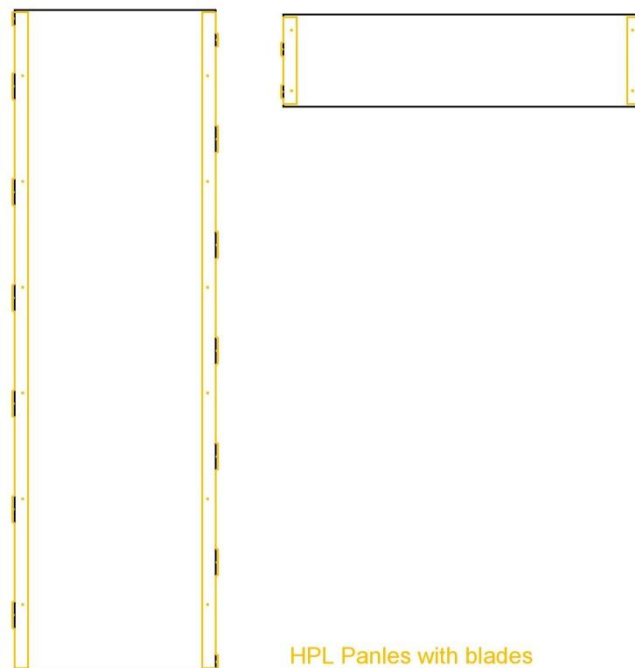


TITLE: CORNER COLUMN 80 MM (top view)  
 SCALE: 1:1  
 MATERIAL: GALVANIZED STEEL 1MM

- Screwing blades to panels

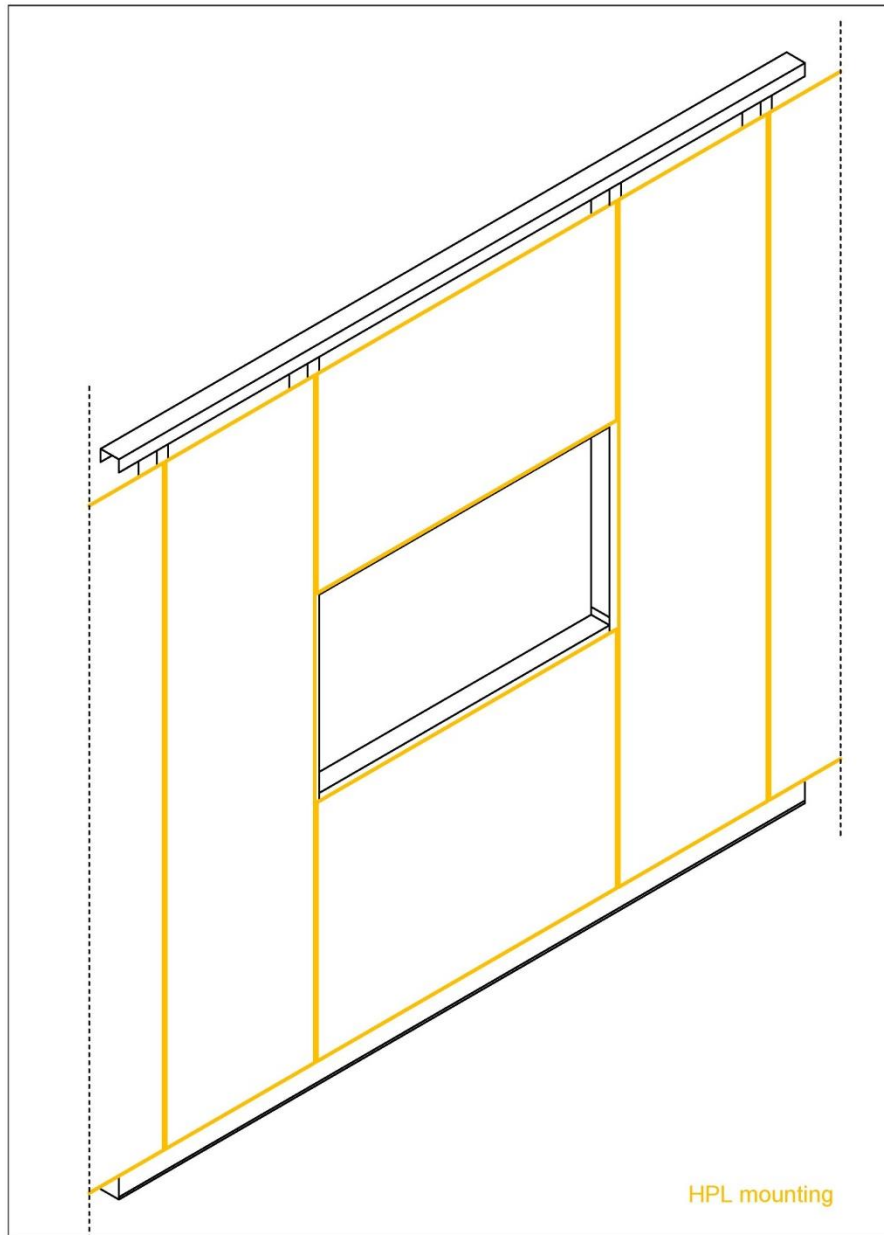


Two support blades, made of galvanized steel, are mounted using screws 1-type on the back of each panel module on the right and left side. Blade size is customizable according to the panel they're going to be placed at.



Each panel is screwed on the substructure, according to the **shop drawing**.

- Installing panels to substructure

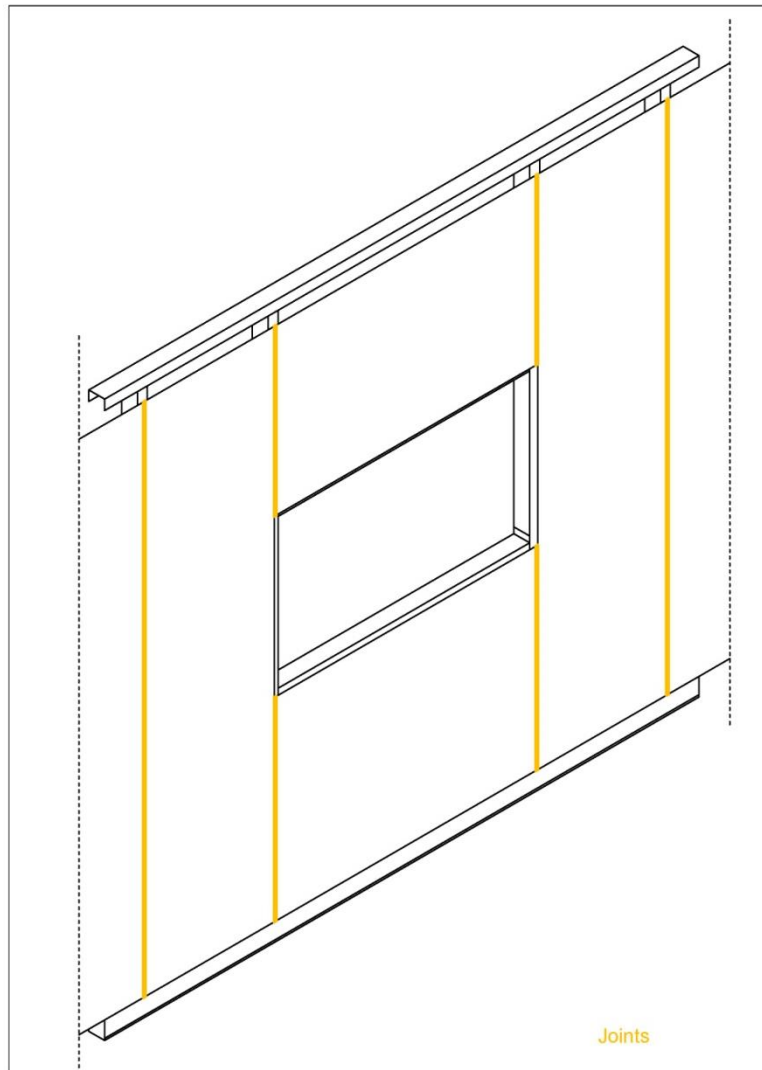


The previously described support blades are screwed on the columns using screws PIAS WURTH 2,9x19-type in the joint area as between the panels there is a gap of 8-9mm, which is mandatory and can be succeeded with these steps:

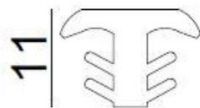
- Find the middle point of each wall and place the first panel there, carefully so that the middle point of the wall will overlap with the middle point of the panel
- After that, begin working your way on the left and the right side by adding more panels
- Establish the 8mm joint gap by pushing each panel till the support blade touches the edging of the previous panel.



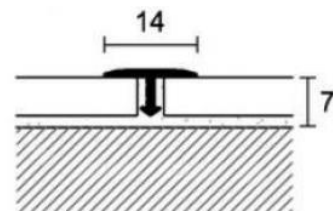
- Installing joint covering



All vertical visible joints are airtight closed with anodized aluminum TAU or rubber gasket ensuring that all surfaces are flush without protrusions. Silicon is used in the installation.



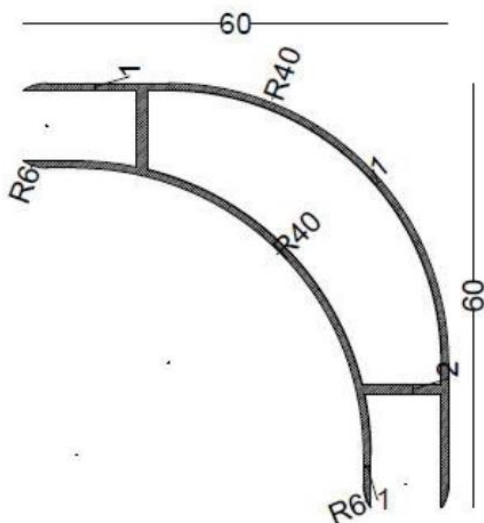
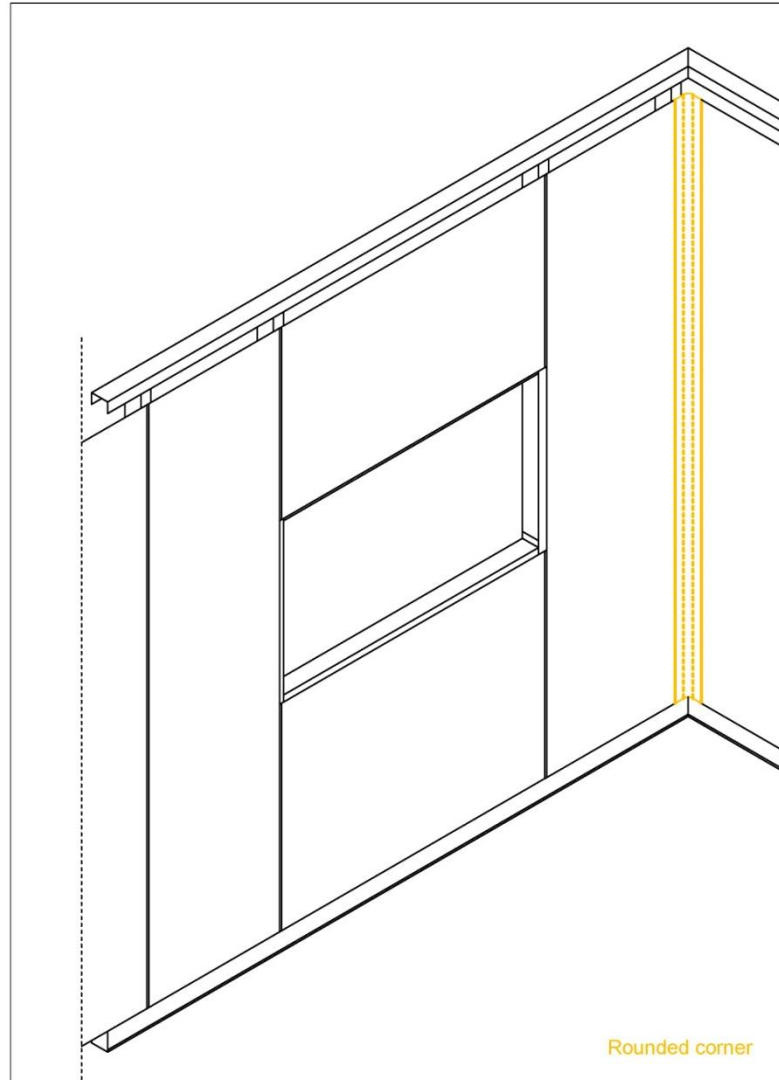
TITLE: SILICON RUBBER  
SCALE: 2:1  
MATERIAL: ANTIBACTERIAL RUBBER



TITLE: ALU TAU  
SCALE: -  
MATERIAL: ANTIBACTERIAL RUBBER

- Installing hygiene corners

Additionally, the vertical 90deg. corners (internal and external) should be covered by aluminum rounded corner profile.

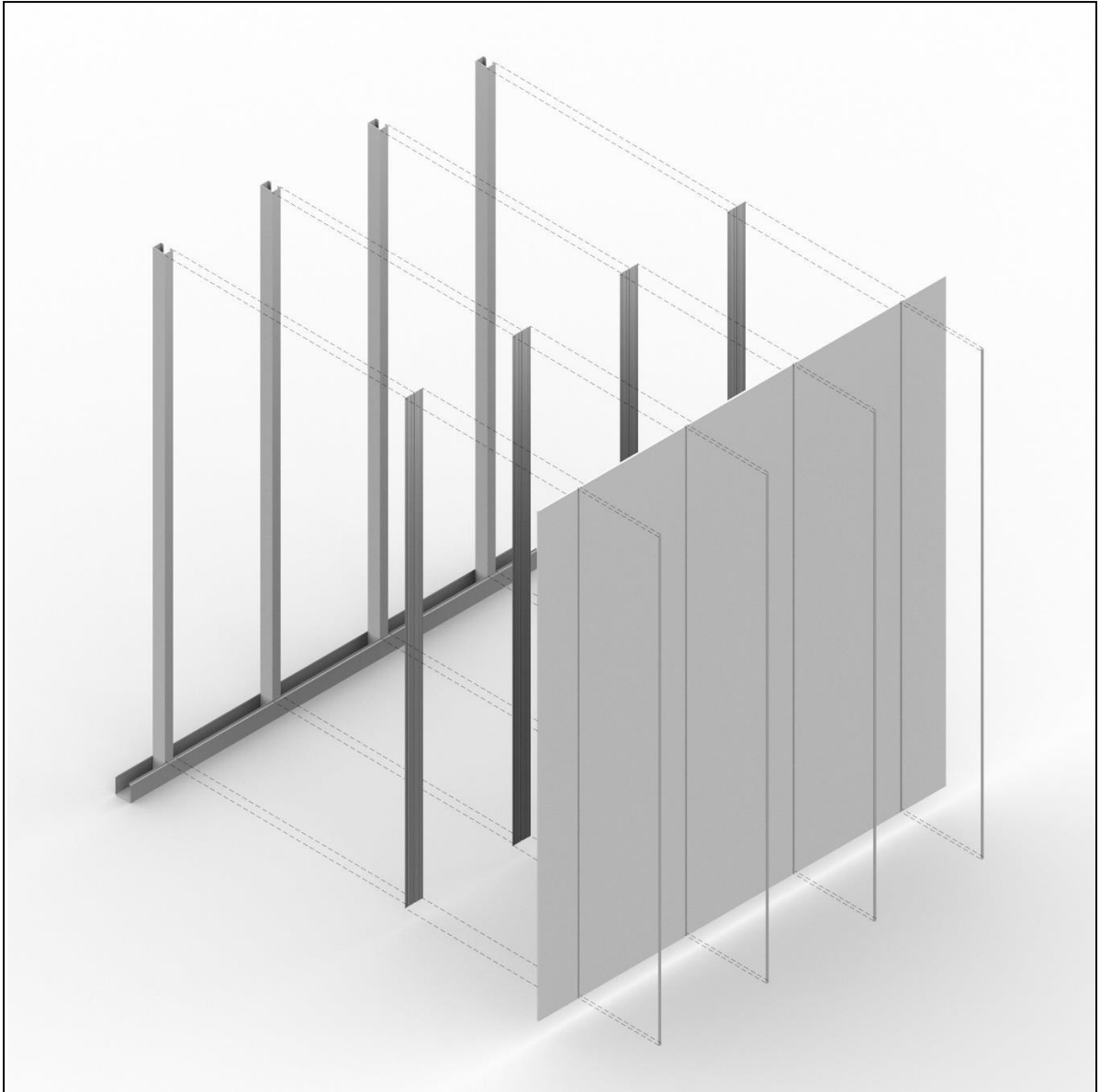


The joint profiles are resistant to all general detergents and germicides and they contain certified antibacterial substances in their synthesis. Rubber gaskets are used interposed between the rear edge of the panels and the sub-frame, ensuring a hermetic seal and thus preventing the ingress of contaminated air from system voids.

TITLE: ROUNDED CORNER

SCALE: 1:1

MATERIAL: ALUMINUM



### 3. Support

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For any issue or technical support, please contact us.

Our engineers will provide assistance and fix as well any issue related to the modular wall system, that may come up on a daily basis.

