AMICRON CLEANTECH PVT LTD.
Hvac & Cleanroom System & Solution

(ISO 9001:2008 Certified)

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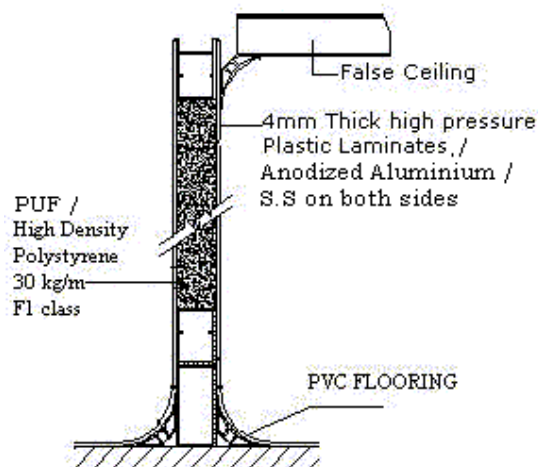
AMICRON Modular Walls and Ceilings, Doors, View Panels etc., have several unique features to build State-of-the-Art Cleanrooms and other controlled environments for various applications.

- Flush surfaces for easy cleaning and for complying to cGMP requirements.
- Practically no maintenance
- Good stability due to advanced architectural design
- Attractive appearance
- Custom designed solutions from a single room to complete departments
- Full modularity
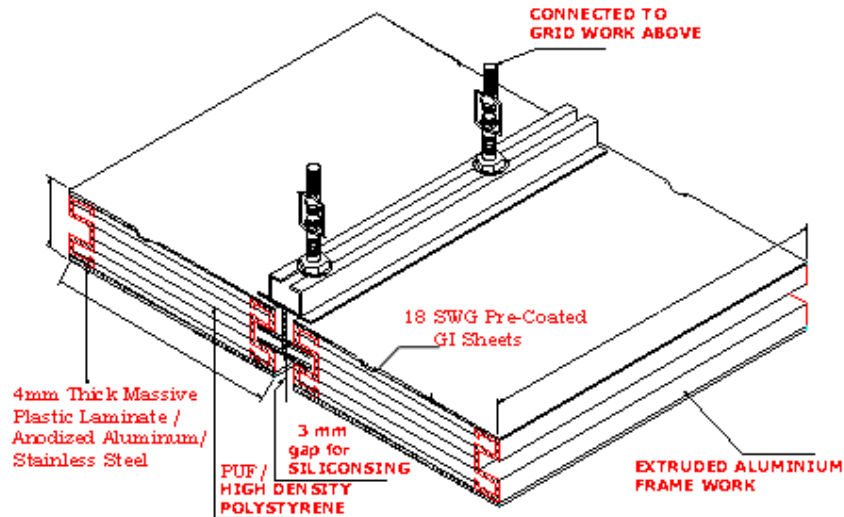- Easy to assemble and dismantle

MATERIAL OF CONSTRUCTION

1) HPL/PPGI/SS

2) Powder Coated/Pre-Painted Aluminium or G.I.

3) Stainless Steel

MOVABLE WALL AL-PL-45

False Ceiling

4mm Thick high pressure Plastic Laminates / Anodized Aluminium / S.S on both sides

PUF / High Density Polystyrene 30 kg/m Fl class

PVC FLOORING

MOVABLE WALL

WALKABLE FALSE CEILING AL-PL-60

MODULAR CLEANROOM IN HPL/PPGI/SS CONSTRUCTION

DETAILED SPECIFICATIONS OF COMPONENTS

MOVABLE WALL AL-PL- 45

Self bearing wall provided in modular units consisting of :

- External panels in 4mm thick massive fire retardant plastic laminate, 0.6,0.8MM AND SS304 0.6MM provided with protection film to avoid damage during the operational and commissioning phases.

- Internal insulation by PUF (Polyurethene Foam) OR HDP (High Density Polystyrene) 35 kg. density/m³

- Internal framework made by extruded aluminum profiles.

- Panels and internal insulation are sealed together by using a special polyurethane-based mono-component glue in case of insulation with HDP.

- Floor bearing profile in extruded aluminum.

- Connection profile made in extruded aluminum section, designed to be sandwiched in the vertical junction knot between two consecutive panels, complete with seat for silicone sealant.

The above described module is available in different colours and available in the max. size of :

Height = 3000 mm ; Length = 1220 mm ; Thickness = 45 mm

FLUSH WINDOW ON MOVABLE WALL

- Manufactured with suitable cutouts in the panel, and installing sandwiched double glass panels by using 5mm glass.

- The spacer between the glasses is filled in with molecular sleeves to absorb moisture.

- The windows are installed flush with the wall and silicone is applied in the gap between the perimeters.

Windows, as specified, are available in standard dimensions:

Size : 1000mm x 1000mm flush window for movable wall

Size : 500mm x 750mm flush window for door

DOOR STD AL-PL-45

Special designed door for flush application on movable walls, consisting of:

External panels in massive fire retardant plastic laminate, provided with protection film to avoid from damage during the operational and commissioning phases.

Internal insulation by PUF (Polyurethene Foam) OR HDP (High Density Polystyrene) 35 kg. density/m³

Total insulation thickness: 37mm

Internal framework made by extruded aluminum profiles.

Panels and internal insulation are sealed together by using a special polyurethane-based mono-component glue in case of insulation with HDP.

Door-jam, doorstop and profile, made in anodized aluminum, are perfectly flush with panels.

Suitable neoprene gasket is between the door-jam and doorstop

Standard lock handles "push and open" type

The above specified door is available, for the installation on movable walls, as well as for the installation on masonry work, in various colors, in standard dimensions of:

- 900mm x 2100mm (42mm thick.) - Single Door

- 750 + 750mm x 2100mm (42mm thick.) - Double Door

WALKABLE FALSE CEILING AL-PL-60

The drop ceiling consists of a load bearing structure suitable to bear panels, ceiling lamps, and frames with absolute filters.

LOAD BEARING STRUCTURE

Mainly consisting of:

Modular structure locked by anodized double T aluminum profiles, with seats for containing lights, frames with absolute filters and blind panels. The room side is with 4mm thick massive plastic laminate retardant, 0.6,0.8MM AND SS304 0.6MM provided and the upper side pre-coated G.I. sheets of 0.6mm thick.

The intersection of the profiles is anchored with small brackets in zinc-plated steel.

Threaded bar complete with adjustment ring to be fastened to the existing ceiling.

The above structure is available with different colour combinations matching the wall panels.

Silicone is applied between the panels from bottom to make the surface monolithic.

Size :- Height = 2440 mm ; Length = 1220 mm ; Thickness = 60 mm

PROFILES

PROFILE R 70

Manufactured in extruded aluminium, used to link the internal vertical corner between two juxtaposed walls, and/or to link a wall with the false ceiling, and/or with the floor.

Available finishing: anodized, rough

FLUSH 90   ANGULAR CONNECTION

Specially designed profile made of extruded aluminum suitable to connect two right-angle consecutive panels. This special profile allows perfect coplanarity at both the internal and external corner.

Available finishing: anodized, rough

FLUSH 180   ANGULAR CONNECTION

Specially designed profile made of extruded aluminum suitable to connect two right-angles deriving from the intersection of two orthogonal panels.

Available finishing: anodized, rough

FITTINGS FOR LINKING PROFILES

1 / 8 SPHERE

Made of aluminum-based alloy, obtained by die-casting, it is used to connect, on the internal side, the solid corner among two walls and floor, or among two walls and the false ceiling.

Available finishing: anodized, rough

1 / 4 SPHERE

Made of aluminum-based alloy, obtained by die-casting, it is used to connect, on the external side, the solid corner among two walls and floor, or among two walls and false ceiling.

Available finishing: anodized, rough

TERMINAL CONNECTION FOR DOOR

Made of aluminum-based alloy, used to connect, next to a door, the R 70 profile with the floor level.

Available finishing: anodized, rough

RETURN AIR RISERS

Return Air Risers made out of modular panels with anodized aluminium extruded profiles with S.S. 304 grilles for air intake. Alternatively, Double walls can be used for return air.