

FLOOR-HT

FLOATING FLOORS



KEY POINTS



Rigidity and lightweight



Modularity



High flow



FLOOR-HT is the access flooring system that fully satisfies the strict quality requirements for constructing controlled environments for the semiconductor industry; the strength, corrosion resistance and emission levels of condensable volatile materials of these panels make them perfect even in chemical processing laboratories and departments.

The panels are installed on specially designed modular support structures, raised between 150 and 1200 or more millimetres of the floor.

There is a various range of surface treatments, such as dissipative epoxy powder coating, anti-acid coating, electrochemical nickel-chrome treatment, conductive or static-dissipative PVC coating, which all make FLOOR-HT a complete and versatile system ideal for any sort of technological and industrial installation.

The perforated, ribbed panels are specially designed to allow air intake at floor level in environments with very high air purification classification, to guarantee one-way airflows over the entire surface of the surrounding room.

The different perforation methods mean that internal dividing walls can be installed on the central axes and borders of the panels without blocking any of the holes. The perforated panels can be equipped with a series of air-locks that are easily controlled from above by a common device.

APPLIANCES

Cleanrooms for the Semiconductor, Microelectronic, Electronic, Optical, Mechanical and Aerospace industries.



COMPONENTS' DESCRIPTION

- **Material:** die-cast aluminium alloy to UNI 5076 (EN 46100) standard or equivalent.
- **Costruction:** solid panel with inferior honeycomb reversed beam ribbing symmetrically spread over the entire surface with different thicknesses and heights. There is a tolerance of ± 0.1 mm for the length, width, thickness, planarity and orthogonal diagonals. Tolerances net of the superior coating or painting (in conformity with UNI 10467/part 2 standards).

PANEL TYPES

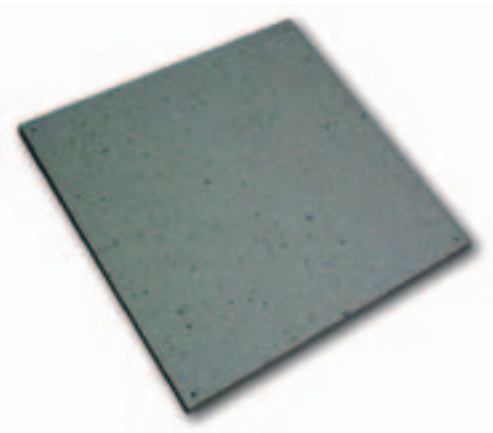
SOLID PANEL

The following coatings are available:

- antistatic PVC
- electroconductive PVC
- antiacid dissipative epoxy powder

Border finish: on request, the border can be finished with the insertion of a 3 mm thick black PVC strip.

Fixing: on request, they can be prepared for mechanically fixing to the structure beneath using through-screws.

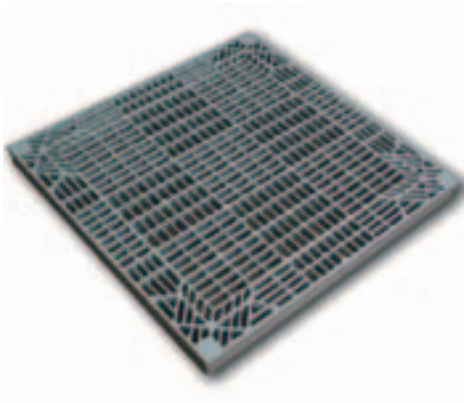


GRATING PANEL

The following coatings are available:

- Electrochemical nickel-chrome
- Coated with static-dissipative epoxy powder 10/8 – 10/9 OHM, extremely resistant to chemical attack

Fixing: on request, they can be prepared for mechanically fixing to the structure beneath using through-screws.



PERFORATED PANEL

The following coatings are available:

- antistatic PVC
- electroconductive PVC
- antiacid dissipative epoxy powder

Border finish: on request, the border can be finished with the insertion of a 3 mm thick black PVC strip.

Fixing: on request, they can be prepared for mechanically fixing to the structure beneath using through-screws.

Air-lock: fixed to the honeycomb structure with a system that does not interfere with the sliding of the regulation system.





ADDITIONAL COMPONENTS



Clamp

Galvanised steel clamp fixed to the column head for the grounding system.

Column adhesive

- Resinlux 210 polyurethane
- Medium viscosity
- Tensile strength with an applied load at + 600 mm. > 25 kg.

Stiffening diagonal bars

- Painted steel FE P02 UNI 5753 or anodised aluminium UNI 6060.
- Tubular Ø 25 mm.
- Thickness 1,5 mm.

Underwall profile

- Anodised aluminium UNI 6060
- Dimensionis 45x45 mm.
- Thickness 2 mm.

Plenum deflecting baffle plate

- Painted aluminium or steel
- Thickness 2 mm.
- Fixed to the plint with adhesive or mechanical nogs
- Sealed with Terostat

Inspection panels

Made by fitting a smash-proof transparent Plexiglas window in the blind panels, being 20 mm thick and 400x400 mm square.

BEARING STRUCTURE



- Capitals ressure die-cast aluminium alloy to UNI 5076 or EN 46100 standards or equivalent, with strengthening ribbing and plinth with prongs that guide in the panels to prevent any sideways movements. A conductive plastic seal (10 ohm, 2 mm thick) is fitted between the capital and the panel.

Dimensions:

- 72x72 mm

Regulation:

- ± 25 mm for structures with H < 400 mm
- ± 40 mm for structures with H > 400 mm

- **Pedestals:** high-pressure die-cast aluminium alloy to UNI 5076 or EN 46100 standards or equivalent.

Dimensions:

- 100x100 for structures with H <400 mm
- 140x140 for structures with H >400 mm





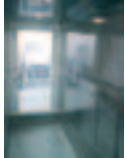




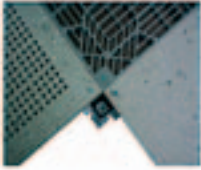



- **Supporting poles:** in high-resistance galvanised steel (diameter 20 mm), internally threaded and sheathed in aluminium tubular profiles (diameter 22 mm)

- **Supporting rods:** rubber and special mix 45 shore plates, conductive, not acid resistance. The isolation capacity is most efficient between 30 and 40 Hz frequencies, with its own frequency of 18 Hz.



TECHNICAL DATA

TYPE	Dimensions mm	Thickness mm	Weight Kg	LOAD			Air volume (m³/h)	Load loss (Pa)	Air pass surfaces
				Concentrated		Evenly distributed (kg/m²)			
				Max Camber 2 mm (kgf)	Max Camber 3 mm (kgf)				
Solid panel	600x600 ±0,15mm	48	9,7	700	1000	4000	/	/	/
Grating panel	600x600 ±0,15mm	50	8,1	550	800	4000	3440	1245	>56%
Perforated panel	600x600 ±0,15mm	48	9,5	650	900	4000	900	16	21%

CLEAN ROOMS	DEDICATED SYSTEMS	CLEAN ROOM COMPONENTS	SPECIAL EQUIPMENT	PLANT
 MICROELECTRONICS	 PRINTED CIRCUITS	 FALSE CEILINGS	 AIR SHOWERS	 CONDITIONING
 ELECTRONICS	 BOTTLING	 MOTOISED FANS	 TRANSFER HATCHES	 SUCTION
 PHARMACEUTICAL	 HOSPITALS	 WALLS	 CLEAN CABINS	 AIR DUCTING
 HOSPITALS	 PHARMACEUTICAL	 FLOATING FLOORS	 DUST REMOVAL	
 BOTTLING	 FOOD	 CEILING FIXTURES	 CHANGING ROOM FITTINGS	