

LA panel

The LA panel is designed for the installation of isothermal cells of limited or great height. It complies with the various constraints of insulation, ambient conditions and toughness.

Advantages compared with traditional structures are their facility and rapidity of assembly, their harmonization with the architecture and the possibility of subsequent transformations.

Application

The LA panel is suitable for the construction of new buildings or for the refurbishment of industrial premises, canteens, logistical stores, laboratories, etc. It complies with all conditions governing food industry premises.

A lining panel is proposed, 40 mm thick, to comply with hygienic standards for old buildings or masonry walls.

In order to conceal networks, special purpose panels have been designed for the routing of cables and pipes (supply, discharge, etc).

Finishing accessories (coving sections, skirting...) facilitate cleaning while protective accessories (bars, tubular guards...) are used to diminish the effects of possible impacts.

Characteristics

Panel claddings

The selection of panel faces must be appropriate to the utilization of the premises and to their surrounding environment.

The standard product is a powder-coated galvanized steel plate, colour Iceberg white (near RAL9010), slightly corrugated (depth of rib 0.6 mm) or smooth.

For specific ambient conditions (high level of hygrometry, intensive cleaning...), other panel faces are available: PET 55, PVDF, 304 stainless steel with PVC + PET film...

They are covered with a protective film that should be removed after installation.



Characteristics

Insulating core

The LA panel is made up of an HCFC-free, high-density polyurethane foam insulating core, injected between two steel sheets.

Volumetric mass : 40 kg/m³.

Thermal conductivity : 0,027 W/m.°C.

The thickness of panels is selected according to the temperatures required for the work or storage spaces.



| Thickness (mm) | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 |
|--|------|------|------|------|------|------|------|------|------|------|
| Weight (kg/m ²) | 9,8 | 10,4 | 11,2 | 12,0 | 12,8 | 13,5 | 14,3 | 15,1 | 15,9 | 16,7 |
| Uc (W/m ² .°C) ¹ | 0,62 | 0,43 | 0,32 | 0,26 | 0,22 | 0,19 | 0,16 | 0,15 | 0,13 | 0,12 |

(1) Uc calculated in accordance with RT 2000 regulation.

Dimensions

Width : module 1160 mm or 1100 mm for export transport
Length minimum 2 m maximum 13 m (depending on thickness)



Construction

The junction between panels is achieved with an interlock snap-on system and facing plate overlap trims prevent, in the event of fire, the insulant from being directly attacked by flames.

The rabbet recess was designed to enhance the rigidity of the panel. Mounting is very simple, the panels are automatically aligned by effortless clamping, the partition wall is totally flat.

Single interlock for thickness 40 mm



Double interlock for thickness 60 to 220 mm



Various sealing and finish solutions are available for joints depending on the ambient conditions of premises.

Reports and approvals

Behaviour in fire : Class B-s2,d0

Class Pa2 (flame retarding foam panels) : N° PN 03 6485

Technical recommendations : CSTB N° 2/05-1143

Extract of customer reference list

Central kitchen of MILLAS, HILTON Hotel, GEORGES V Hotel, LECLERC, MC DONALD, MIKO, M.I.N. Rungis, SUPER U, THIRIET, M.I.N. Toulouse