LF panel

Fire Protection

The LF panel is an insulated mineral wool core sandwich panel for industrial operations to meet fire conditions while retaining thermal insulation characteristics.

The protection of people and assets is within its remit, it easily fits in with the layout of buildings while meeting insurance and design office specifications.

Application

The LF panel with its high density mineral wool core and its overlap profile is non combustible.

Its various thicknesses make it ideal for the construction of new buildings, for new layouts in existing premises or for insulating claddings.
When used as a lining panel (thickness 40 mm), it clads interior walls or ceilings to enable business premises or dilapidated spaces to meet sanitary standards.

With thicknesses from 60 to 160 mm, it is used for the realisation of isothermal partition walls or bearing ceilings in positive temperature arreas.

Rounded junctions as reflex angles, flush finishes with concealed screws, ensure hygienic conditions and good lines while facilitating cleaning.

Characteristics

Panel claddings

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

The standard product is a polyester powder-coated galvanized steel plate Iceberg white (near RAL 9010), 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: brushed PET 55, PVDF, 304 stainless steel with PVC + PET film...

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

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Characteristics

Insulating core

The LF panel is made up of a high density insulating rock wool core set, using a press, between two steel sheets with a polymerized bi-component polyurethane glue.
Volumetric mass : 135 kg/m^3, 120 kg/m^3, 100 Kg/m^3
Thermal conductivity : 0,041 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	160
Weight (kg/m²)	13,6	16,3	18,9	21,6	24,2	29,5
Uc (W/m².°C)[1]	0,91	0,64	0,49	0,39	0,33	0,25

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

Dimensions

Width : module 1160 mm or 1100 for export transport
Length 6 m to 12 m (according to 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.

Interlock

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

Reports and approvals

Behaviour in fire : Class A2-s1,d0
Agrément FM (Factory Mutual) class 1 selon FM Approval 4880
Exist in **«Fire resistant»** or **«Acoustic»** variant

Technical recommendations : CSTB N° 2/04-1116

Extract of customer reference list

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