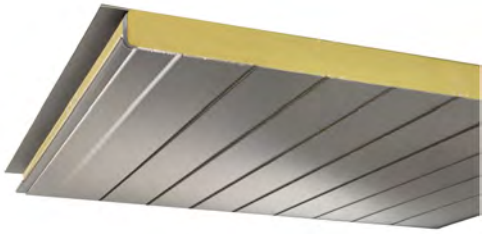
MINERAL WOOL WALL PANELS (Facade)

APPLICATIONS

Mineral wool panels are the ultimate choice for quality, durability and performance. They are made of high-grade steel sheets bonded with organic adhesive to a high-density mineral wool core (120 kg/m3; 7.5 lb/sq ft3), offering **superior fire-resistance and thermal and acoustic insulation**, making your building more safe, comfortable and energy-efficient. Some uses include:



- **Heated** buildings
- Interior **noise screening** in industrial installations
- **Manufacturing** buildings
- Buildings that require **fire-proofing solutions**
- Non-combustible enclosures: **data processing centers, hazardous material warehouses, chemical plants**, etc.
- Buildings whose activity is **changeable** or that are intented to be **rented**.

DESCRIPTION OF THE PRODUCT

Fire-resistant insulated metal panels feature a dual metal coating and mineral wool insulation. Their concealed fastening, thanks to their joint design, guarantee complete watertightness of the union, whether installed vertically or horizontally. This system ensures a flawless finish and superior performance for any facade application. The straightforward installation process for these fire-resistant facade panels streamlines work and reduces assembly time.

- The panels consist of two steel sheets bonded by means of organic adhesive to the mineral wool core.
- The steel sheets (EN10346) can range from 0.5 to 1.0 mm, 0.5 mm being the standard thickness.
- Coatings are applied depending on the use of the panel: SP25, PVDF25, PVDF35, HDS35, HDX55, PRISMA55, HPS200, etc., according to EN 10169.
- Standard coating is 25 mm polyester, SP25
- Can be manufactured with other materials upon request: aluminum, stainless steel, etc.
- The mineral wool core complies with EN 13162.

ADVANTAGES

Prefabricated mineral wool panels are very easy to install, durable and provide excellent fire-resistance, and thermal and acoustic insulation.

OPERATING TEMPERATURE LIMIT AND WATER BEHAVIOR

Applicable from -5°C/23°F up to 180°C/356°F
Non-hydrophilic

PRODUCT CERTIFICATIONS AND WARRANTY

CE marking according to standard EN 14509
10 years of warranty

FIRE REACTION

A2-s1, d0 classification according to standard EN-13501-1.

TECHNICAL SPECIFICATIONS (HIGH-DENSITY MINERAL WOOL CORE TYPE "M")

DIMENSIONS, WEIGHT AND THERMAL PROPERTIES					
Thickness (mm)	**Width (mm)**	**Max. Length recommendation (m)**	**Core type**	**Weight (kg/m^2)**	**"U" (W/m^2K)**
50	1000	8.50	M	14.2	0.835
60	1000	8.50	M	15.4	0.710
80	1000	10.00	M	17.8	0.491
100	1000	11.00	M	20.2	0.389
120	1000	12.00	M	22.6	0.323
150	1000	12.00	M	26.2	0.261
200	1000	12.00	M	32.3	0.194

ACOUSTIC PERFORMANCE		
Thickness (mm)	**R_w (db)**	**R_A (dbA)**
50	≥33	≥32.5
60	≥33	≥32.5
80	≥33	≥32.5
100	≥33	≥32.5
120	≥33	≥32.5
150	≥33	≥32.5
200	≥33	≥32.5

FIRE RESISTANCE	
Thickness (mm)	**Classification**
50	EI-30 according to standard EN-13501-2
60	EI-30 according to standard EN-13501-2
80	EI-60 according to standard EN-13501-2
100	EI-120 according to standard EN-13501-2
120	EI-120 according to standard EN-13501-2
150	EI-120 according to standard EN-13501-2
200	EI-120 according to standard EN-13501-2

FLEXURAL PROPERTIES							
Load capacity table for simply supported panels (two-point)							
Load capacity (kg/m^2)	30	60	80	100	120	150	200
Thickness (mm)	**Span (m)**						
50	7.70	5.30	3.90	3.01	2.52	2.00	1.50
60	8.15	6.10	4.20	3.50	3.02	2.40	1.90
80	9.22	6.26	5.15	4.47	4.07	3.24	2.50
100	11.00	7.50	6.10	5.45	5.00	4.12	3.25
120	12.00	8.30	7.05	6.35	5.89	4.80	3.75
150	*Upon consultation with Technical Dept.						
200	*Upon consultation with Technical Dept.						

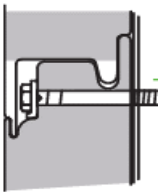
Deflection L/180. Safety factor 1.8

PROFILE AND JOINTS

Standard profile

Micro-ribbed profile

Flat profile



Concealed fastener