

MadFlex 5 mm STEEL

This MadFlex is extremely fire resistant thanks to the use of a steel layer. The insulating ability of the panel core is enhanced by the infrared end electromagnetic radiation reflection capacity of the metal layer, guaranteeing an excellent insulation also in extreme environments. The extremely modern appearance conferred by stainless steel makes it appealing also for design creations and in architecture.

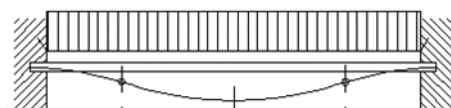


	UNIT	TYPICAL VALUE	TEST
Thickness	mm	5	
Areal weight	kg/m ²	1.75	
Tensile strength	kN/m	65	ASTM D3039/D3039M
Failure bending moment	N·m/m	230	ASTM D7250/D7250M
Bending stiffness "rigid side"	N·m ² /m	53	ASTM D7250/D7250M
Bending stiffness "flexible side"	N·m ² /m	0.3	ASTM D7250/D7250M
Flatwise compressive strength	MPa	1.7	ASTM C365/C365M
Heat transfer coefficient	W/ m ² °K	7.2	DIN52612

Maximum load for a 0,5 m x 0,5 m panel for two different restraint conditions:



Simple supports: 486 kg



Fixed supports: 480 kg
in order to avoid a plastic deformation

OTHER FEATURES

- Excellent fire resistance, suitable also in presence of naked flames
- A 10 m long panel can be wrapped into a 21 cm diameter
- The steel layer creates a spring effect for the restoration of the flat configuration
- Good resistance to chemical agents
- Mirror surface