

TITLE	ISSUED FOR	ISSUED BY	NUMBER
TECHNICAL SPECIFICATION	INFORMATION	ISC Prog. Eng. Supp.	ESS - 04 - F07
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PRODUCT IDENTIFICATION

Commercial Name	STONETHERM
Product Code	ST 105
Product Type	Composite prefinished panel in thin natural stone and thermal insulating structural support

CHARACTERISTICS

Composite prefinished panel manufactured by an innovative process that guarantee the perfect adhesion of the thin layer of natural stone, marble, travertine etc. 5 mm thickness with the backing material: structural foam 5-75 mm with good thermal insulation and strenght characteristic.



Use	Interior flooring and walling, exterior walling for residential and commercial buildings.			
Surface Finishing	Natural Stone: polished, honed, brushed etc; Surface's protection: oil and water proof available on request;			
Standard Size	STD Thickness: 10-80 mm, 5 mm natural stone and 5-75 mm thermal insulating structural support. Other thickness on request; STD Size: 500x500 mm, 500x1.000 mm, 600x600 mm, 600x900 mm, 600x1.200 mm, other size on request.			
Weight per Surface Unit	5 mm natural stone + structural support thickness 5-75 mm: approx. 15 kg/sqm			
Side Finishing	90 ° cuts standard, side calibration and bevel on squared panels, other on request.			
Mechanical Characteristics	Flexural strenght	5,19 MPa – dry	ASTM C 880	
	Module of rupture	5,48 MPa – dry	ASTM C 99	
Sandwich Panel Component	Natural Stone			
	Natural stone, marble in all colours and texture, travertine, onix, ardesia etc.			
Adhesive	Polyurethane hydro hardening inalterable by microorganism and thinners, acid and UV resistance, sound proof effect.			
	Specific Weight	1,15 gr/cm ³		
	Viscosity	2.200 +/- 1.000 cps		
	Colour	transparent		
	Temperature Range	-30°C / + 130°C		
Structural Foam Support	Specific Weight	80 60	Kg/m ³	DIN 53420
	Compression Resistance	18 8,5	Kg/m ²	DIN 53421
	Compression Module	70,0 40,0	MPa	ISO 1209
	Water Absorption	0,06	Kg/m ³	ASTM C 272
	Thermal Conductivity	0,034 0,030	W/m ² K	
	Inflammability Class	M1/2 (self extinguishing)	CSE RF2	
STD Installation	ST 105 Installation :			
	STONETHERM panel can be installed on floor/wall at contact using approved adhesive, the surface must be in level and clean. STONETHERM can be installed on many sub-base floor/wall materials, such as: wood board, concrete panel, brick and plaster wall, gypsum panel, etc. For floor installation the planarity is the same required to install similar products, such as: parquet, vinyl tiles, etc. The sub-base must be solid, without cracks and visible defects, if the elements are installed on top of existing covering materials it must be verify the perfectly adhesion to the original support in order to prevent any damage after STONETHERM installation.			