STONE PERFORMANCE PROCESS
DATA SHEET
TECHNICAL ASSESSMENT AND QUALITY CSTB 2.2/13-1567

DESCRIPTION

Ultra-light, large size natural cladding system using honeycomb-backed stone veneer. Absolutely any type of stone, marble, granite, etc. can be applied, in any finishing. Edge finishing & returns crafted and assembled as traditional marble work.

COMPOSITION

Natural stone in 5mm bonded to a composite glass-fiber skin/aluminum core panel.

DIMENSIONS

Up to 1600 x 3200 mm depending upon selected material.
Thickness 5+20 mm (+/- 1 mm).

APPLICATIONS

- Exterior cladding.
- False-ceilings.
- Cladding elements for curtain wall systems.
- Roofing, soffits and inclined wall.
- Seismic zone.

INSTALLATION

- Installation on concrete.
- Installation on a metal framework.
- Installation on a wooden framework (COB/CLT/FOB).
- Other types of mechanical fastening designed according to project requirements.
- 5 mm joints, open or closed.

TECHNICAL DATA

Honeycomb		
Lap shear test	ASTM D1002	40°C - 16Mpa
Aluminum Honeycomb core		AL 3003, 70 Q
Standard cell Dimension		9,52 mm
Compression modulus	ASTM D 790	136 MPa
Stone / Honeycomb		
Compression strength	ASTM C 365	2 MPa
Insert Pull out / Shear strength	PV CSTB	After fatigue 4,2 KN / 3,4KN
Flexural positive	ASTM C 393	4.8 N/mm²
Flexural negative	ASTM C 393	12.16 N/mm²
Flatwise tension	ASTM C 297	0.52 N/mm²
E.I module Young x Inertia		14 100 N/m²
Surface Density		16 kg/m² upon selected material
Stone / Honeycomb / Rail		
Seismic testing	PV CSTB	No deterioration 16,5 m/s², 4M²
Fire rating	AFNOR	B-s1;d0
Wind load resistance	PV CSTB	No deterioration 9036 P
Resistance to soft impacts	PV CSTB	No deterioration 60J/400J
Resistance to hard impacts	PV CSTB	No deterioration 3J/10J
Resistance to thermal shocks	PV CSTB	No deterioration
Interlocking aluminum rails		
Weight of interlocking aluminum rails		4 kg/m²

Product presentation video – SPP