

CLEARSTEP

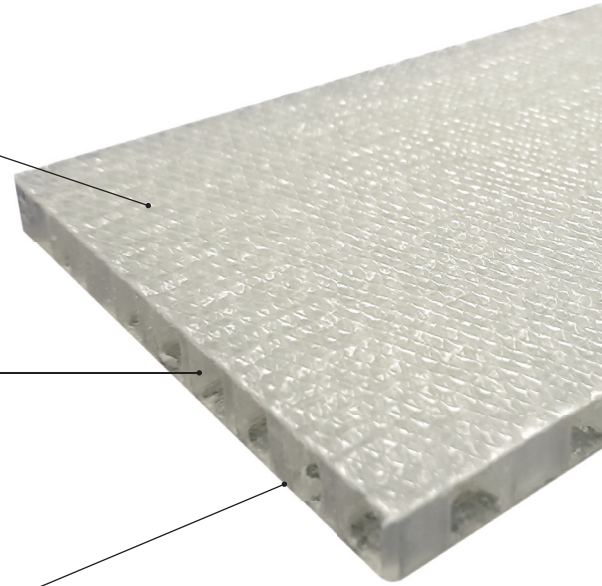
Panel's composition

SKINS IN GLASSFIBER FABRIC

Impregnated with epoxy resin - Thickness mm: 0,4

CORE

Polypropylene honeycomb



Technical data sheet for standard panels (dimensions, materials and special finishes on request)

TECHNICAL CHARACTERISTICS OF PANEL		Technical data sheet for standard panels (dimensions, materials and special finishes on request)							
		thickness of the panel	mm	from 6 to 60					
panel size		mm	standard dimensions 1180x2480 other dimensions on request						
thickness' tolerance		mm	±0,4						
dimension's tolerance		mm	± 30						
skins' thickness		mm	0,4						
Impregnation			Epoxy resin						
glass fiber skin			texture plain 500 gr/m ² 600 tex						
honeycomb		µm	polypropylene						
diameter of honeycomb		Ø = mm	8						
honeycomb density		Kg/m ³	80						
adhesive for aluminum honeycomb			Epoxy Resin						
type panel (some examples)		mm	6	10	15	20	25	30	35
panel weight			2,4±0,2	2,7±0,2	3,1±0,2	3,5±0,2	3,9±0,2	4,3±0,2	4,7±0,2
compressive stabilised strength		Kg/m ²	1,7 ± 0,3						
maximum load		ASTM C 393 † N	220±20	380±40	550±60	740±80	900±100	1050±100	1250±100
deflection at maximum load		ASTM C 393 † mm	53±6	30±3	20±2	15±2	11±1	9±1	8±1
skins E Elastic Modulus**		ASTM C 365-365 M Mpa	24'000±1'000						
moment of inertia **		mm ⁴ /m	220±20	380±40	550±60	740±80	900±100	1050±100	1250±100
middle resistance to peeling **		ASTM D1781-98 (2012)	>450 N/76 mm or >50 Nmm/mm						
maximum service temperature **		°C	- 40/ + 60						
thermal expansion coefficient ***		°C ⁻¹	1,5 * 10 ⁻⁵ / 1,5 mm for ΔT 100 C for 1 meter length						

* Tested by Certifying Institute

** Tested by Internal Laboratory

*** Approximate value

† Sample dimension with 4 support points (L,W) 540 mm x 50 mm



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ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

ENG

Standard dimensions (other dimensions available on request) - Dimension tolerance ± 30 mm

