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ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

ENG

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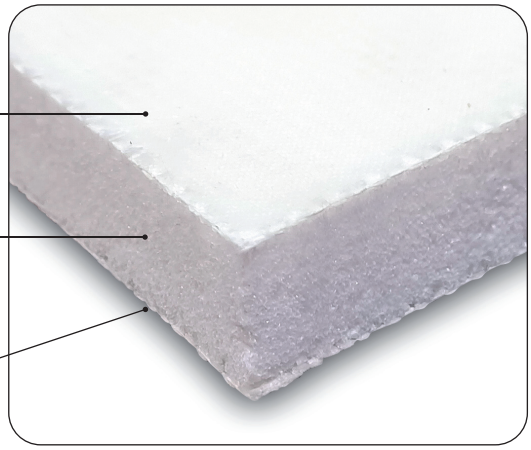
Panel's composition

SKIN IN GLASSFIBRE
impregnated with epoxy resin 500 gr/m²

CORE
PET foam core



Technical data sheet for standard panels (dimensions, materials and special finishes on request)									
TECHNICAL CHARACTERISTICS OF PANEL	Panel thickness		mm	from 8 to 60					
	Panel size		mm	Standard 2500x1250 other dimensions available on request					
	Thickness tolerance		mm	±0,4					
	Dimension tolerance		mm	± 30					
	Skins thickness		mm	0,4					
	Impregnation			Transparent epoxy resin with anti-UV filters					
	Glass fibre skin type			Glass fibre Plain 500 gr/m² 600 tex					
	Core materials			PET foam core					
	Core thickness		µm	from 7 to 60					
	Diameter of honeycomb		Ø = mm	from 3 to 19					
	Core density		Kg/m³	from 80 to 200					
	Adhesive			Two-component epoxy					
PANEL PHYSICAL AND MECHANICAL PERFORMANCES	Panel thickness		mm	10	20	30	10	20	30
	Panel weight ‡		Kg/m²	2,9±0,3	3,7±0,3	4,5±0,3	3,4±0,3	4,8±0,4	6,1±0,4
	Core material			PET foam core			PET foam core		
	Foam density		Kg/m³	80			135		
	Compressive strength	ASTM C 365-365 M	MPa	0,83			2,3		
	Shear modulus		MPa	16			35		
	Yield load	ASTM C 393†	N	220	560	800	390	780	1400
	Deflection at yield load	ASTM C 393†	mm	16±2	11±1	7±1	26±2	14±2	10±1
	Skins E Elastic Modulus**		Mpa	28'000±1'000					
	Moment of inertia I		mm^4/m	18'400	76'000	174'000	18'400	76'000	174'000
	Middle resistance to peeling **	ASTM D1781		265 N/76mm - 17 Nm/m			300 N/76 mm - 23 Nm/m		
	Thermal conductivity (referred to foam only)	a 23°C	W/(m·°K)	0,034			0,037		
	Thermal transmittance U (referred to foam only)	a 23°C	W/(m²·°K)	3,8	1,8	1,2	4,1	2,0	1,3
	Service temperature **		°C	- 40/ + 60					

** Tested by Internal Laboratory
† Sample dimension with 4 support points (L, W) 540x50 mm

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