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P.IVA 04102600378 CCIAA BO 0339628
ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

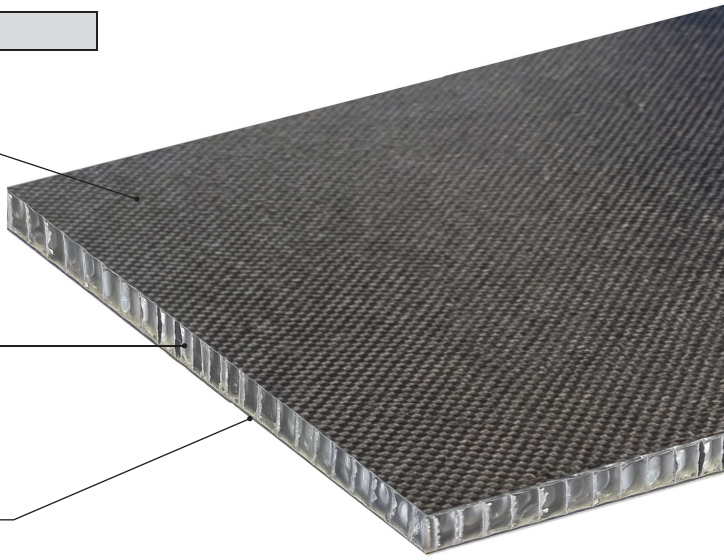
ENG

CARBONSTEP® A

Panel's composition

SKINS IN BIDIRECTIONAL CARBON FABRIC

CORE
Aluminium honeycomb (Alloy series 3000* or 5052) with hexagonal cells
Diameter: Ø1/4", 1/8", 3/16"
Thickness Foil: from 50 to 70 microns



* To Aluminium alloy series 3000 belong: Aluminium alloy 3003, Aluminium alloy 3005, Aluminium alloy 3103, Aluminium alloy 3104

Technical data sheet for standard panels (dimensions, materials and special finishes on request)									
TECHNICAL CHARACTERISTICS OF PANEL	Panel thickness	mm	from 5 to 50						
	Panel dimensions	mm	standard dimensions 1250x2500 / 1250x3000						
	Thickness tolerance	mm	± 0,3						
	Dimensions tolerance	mm	± 30						
	Skins thickness	mm	starting from 0,6 mm, other thickness on request						
	Impregnation		Epoxy resin						
	Weaving		Plain						
	Carbon yarn		3k						
	Carbon weight		220 gr/m², other weight on request						
	Honeycomb		aluminum series 3000 / series 5000						
	Hexagon cell dimensions	Ø = mm	3,2 - 6						
	Honeycomb density	kg/m³	from 56 to 116						
	Panel weight*	Thickness mm	5	15	20	25	30	35	50
		kg/m²	1,8	2,3	2,6	2,9	3,2	3,5	4,3
	Medium resistance to delamination**	ASTM D1781	> 40 Nmm/mm						
	Service temperature	°C	-40+85°C						

* Referring to a panel with a 6-56kg/m³ honeycomb
** Tested by Internal Laboratory

Sandwich Panel CARBONSTEP A®

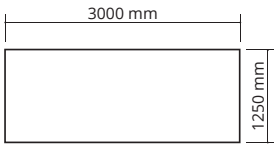
Last Revised: 03/26_Rev. 0

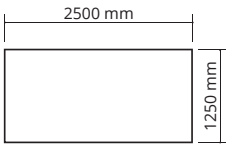
CEL COMPONENTS

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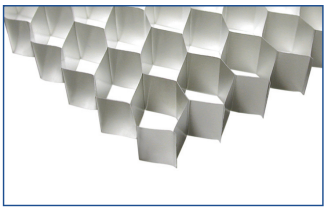
Standard dimensions (other dimensions available on request) - Dimension tolerance ±30mm





CARBONSTEP® A			
ALUMINIUM ALLOY	**Ø honeycomb in mm**	**Ø honeycomb in inches**	**Density Kg/m³**
3003	3,2	1 / 8"	118
3003	6,4	1/4"	56
3003	6,4	1/4"	83
5052	3,2	1/8"	51
5052	3,2	1/8"	73
5052	3,2	1/8"	93
5052	3,2	1/8"	118
5052	4,8	3/16”	90

Aluminium honeycomb



Sandwich Panel CARBONSTEP A®

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