

## ALUSTEP® 300 LIGHT

### Panel's composition

#### SKIN IN GLASSFIBRE

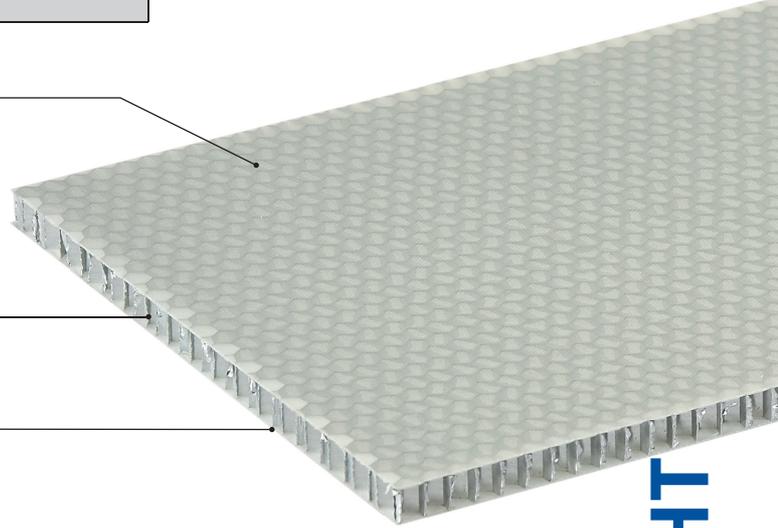
impregnated with epoxy resin 290g/m<sup>2</sup>

#### CORE

Aluminium honeycomb (Alloy series 3000\*) with hexagonal cells

**Diameter:** Ø1/4", Ø3/8" \*\*

**Thickness Foil:** from 50 to 70 microns



Thickness starting from 3 mm to 80 mm

\* Serie 5000 on demand

\*\* Ø3/8" on request

### 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)											
		Panel thickness		Panel size		Thickness tolerance		Dimension tolerance					
		mm		mm		mm		mm					
		from 5 to 50		Standard 1250 x 2500 / 1500 x 3000 On request up to 1500 x 4000		±0,3		± 30					
								0,3					
								Glassfibre 300 gr/m <sup>2</sup>					
								3000 series / 5000 series					
		µm						50 and 70					
		Ø = mm						from 3 to 19					
		Kg/m <sup>3</sup>						from 20 to 116					
								Epoxy Resin					
PANEL PHYSIC AND MECHANIC PERFORMANCES		Panel Thickness (some examples)		mm	5	10	15	20	25	30	35		
		Panel weight ‡		Kg/m <sup>2</sup>	1,4	1,7	1,9	2,2	2,5	3,0	3,8		
		Compressive stabilised strength MPa ** ‡		ASTM C 365-365 M	Mpa	2,9							
		Middle resistance to peeling ** ‡		ASTM D1781-98 (2012)		> 500 N/76 mm or >55 Nmm/mm							
		Maximum service temperature **			°C	- 40/ +90							
		Thermal expansion coefficient **			°C <sup>-1</sup>	1,5 * 10 <sup>-5</sup> / 1,5 mm for ΔT 100 °C for 1 meter length							

\*\* Tested by Internal Laboratory

‡ All values refer to a panel made of aluminum honeycomb with a cell diameter 6 mm 56 kg/m<sup>3</sup> and epoxy adhesive

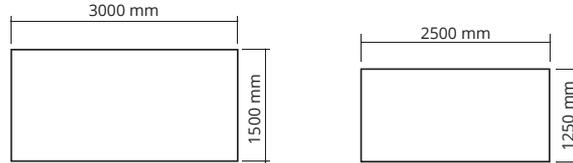


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ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

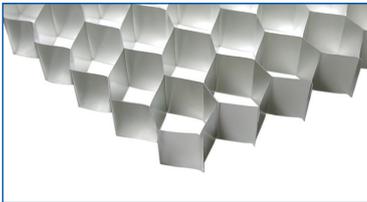
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Standard dimensions (other dimensions available on request) - Dimension tolerance  $\pm 30$ mm



Honeycomb core's properties	50 Microns			
Type	ALUMINIUM ALLOY 3003/3005/3103/3104			
Ø honeycomb in mm	6	9	12	19
Ø honeycomb in inches	1/4"	3/8"	1/2"	3/4"
Density Kg/m <sup>3</sup>	56 - 59	39 - 40	29 - 30	20 - 21
Compressive stabilised strength MPa	3,0 - 3,5	1,4 - 1,95	0,8 - 0,95	0,4 - 0,6

Honeycomb core's properties	70 Microns			
Type	ALUMINIUM ALLOY 3003/3005/3103/3104			
Ø honeycomb in mm	6	9	12	19
Ø honeycomb in inches	1/4"	3/8"	1/2"	3/4"
Density Kg/m <sup>3</sup>	80 - 83	54	40 - 42	27 - 29
Compressive stabilised strength MPa	4,3 - 4,6	2,5 - 2,6	1,41 - 1,5	0,85 - 0,9



Aluminium honeycomb

Sandwich Panel ALUSTEP® 300 LIGHT