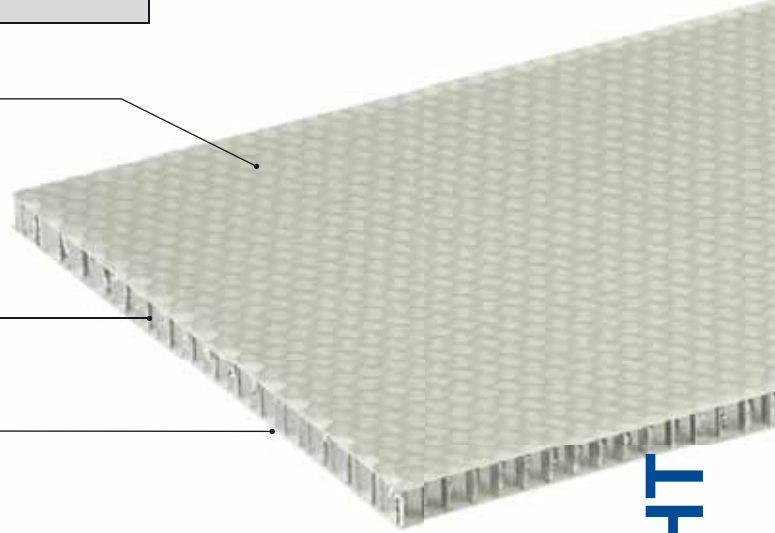


## ALUSTEP® 300 - LIGHT

### Panel's composition

**SKIN IN BIDIRECTIONAL GLASSFIBER FABRIC**  
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

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

\*\* Ø3/8" on request

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

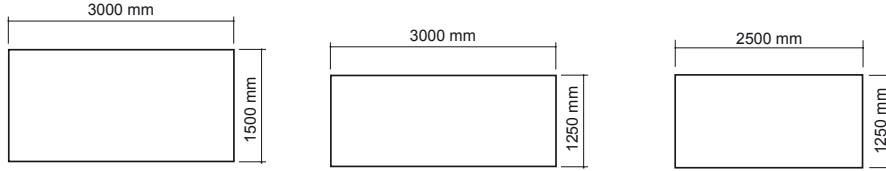
TECHNICAL CHARACTERISTICS OF PANEL		thickness of the panel		mm		from 5 to 50					
		panel size	mm	standard 1250 x 2500 / 1500 x 3000 On request up to 1500 x 4000							
thickness' tolerance	mm	±0,3									
dimension's tolerance	mm	± 30									
skins' thickness	mm	0,3									
glass fiber skin		Glass fiber Plain 300 gr/m <sup>2</sup>									
honeycomb aluminium alloy		3000 series / 5000 series									
thickness of honeycomb foil	µm	50 and 70									
diameter of honeycomb	Ø = mm	from 3 to 19									
honeycomb density	Kg/m <sup>3</sup>	from 20 to 116									
adhesive for aluminum honeycomb		Epoxy Resin									
PANEL PHYSIC AND MECHANIC PERFORMANCES		type panel (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

\*\*\* Approximate value

‡ 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

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



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