



The aluminium sandwich panel boasts exceptional flexural strength while maintaining an ultra-low weight. Unlike traditional honeycomb composite panels, this material is not brittle-hard but possesses a viscoelastic nature, characterized by unparalleled peel strength values. It seamlessly integrates high mechanical properties, including the tensile strength of its cover sheets, with remarkable processing capabilities and aesthetic appeal.

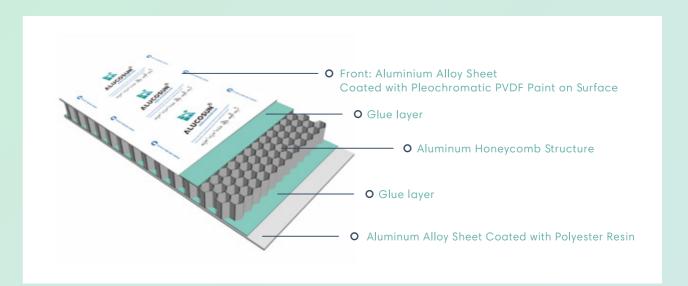
Utilizing a continuous manufacturing process, we can produce large-sized panels up to 9 meters in length, ensuring superior flatness. These impeccably precise panels are easily achievable across a diverse range of applications using standard equipment. Owing to its unique properties, it is suitable not only for exterior applications like façade cladding, roofing, balconies, and the like, but also for interior applications such as ceiling panelling and industrial uses.

Beyond its lightweight and ultra-flat design, the honeycomb composite panel also excels in its high weather resistance. With regard to surface treatments, only top-tier lacquering systems are employed to guarantee optimal weatherproofing and resilience against industrial pollution.

STRUCTURE

Alucosun® aluminium honeycomb panel is composed of two aluminium sheets and a honeycomb aluminium core, which is like so many I-shaped beams distributing the pressure from different directions to well assure the flatness of the plane even in very large area.

Thanks to its unique structure, honeycomb has an impressive behaviour in anti-load.



Dimensions

Standard Thickness (mm)	Standard Width (mm)	Standard Length (mm)		
10	1250	2500/3200/4000		
10	1500	2500/3200		
15	1250	2500/3200		
15	1500	2500/3200		
20	1500	2500/3200		
25	1500	2500/3200		

All standard formats available from stock

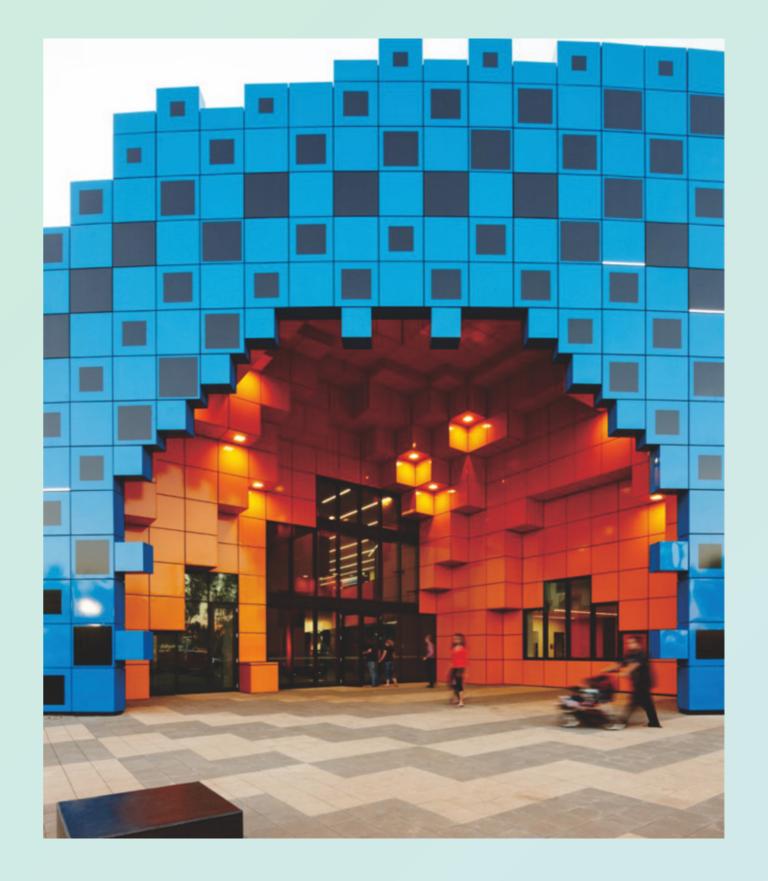
Upon Request: Special Thickness /Width /Length

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___ Test Report

Item	Unit	Alucosun			
nem	O	Aidcosuii			
Standard thickness	mm	10	15	20	25(max 50mm)
Front skin thickness	mm	≥0.8			
Rear skin thickness	mm	≥0.7			
Panel size	mm		Width:≤2000	Length:≤3000	
Weight	Kg/m²	5.0	6.7	7.0	7.3
Rigidity	kNcm²/m	21900	75500	138900	221600
Modulus of elasticity	N/mm²	70 000			
Cell size	mm	6mm-12mm			
Sound reduction index	dB	15	22	23	25
Thermal resistance	m²k/w	0.0063	0.0084	0.0089	0.0093
Temperature resistance	°C	-40 to +80			





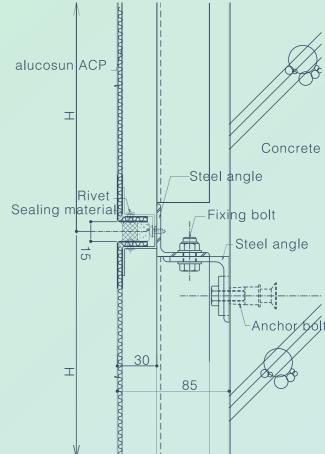
WARRANTY

The standard warranty is 15 -20 years depends on the locaiton of exact projects. 30 years warranty is available for high- qualified surface finished products.

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Vertical section

TYPICAL FIXING



Various color and finish options make Alucosun Latest® a favorite choice of building envelope. Variety of spectra, durability of the paint systems quality of the finish etc. makes it a suits to any application of cladding whether it is a commercial building, iconic structure with unique identity or an established brand. Alucosun Latest® offers a variety of standard and custom finishes out of in-house coil coating facility. Alucosun Latest® is surface finished with PVDF and NANO paint system in continuous coil coating process which ensure quality and consistency in compliance with AAMA 2605 specification.

PVDF paint system with composed 70% PVDF resin is known for high resistance to UV rays and environmental effects therefore Alucosun® is durable and consistent performance in extreme weather conditions.

NANO-PVDF is a self-cleaning paint system. Such Paint system provides an additional clear top coat with highly cross-linked NANO particles on PVDF finish; which ensures smooth surface. Smooth and clear surface makes dirt and dust difficult to stick on which gives the building an always clean look. PVDF and NANO paint systems are highly durable assures 15-20 years of finish warranty.

ANODIZED panels with various finish options are available in Alucosun® however it is subject to certain time and size limitations. Naturally protected by anodized layer panels are highly durable scratch resistant provides warranty about 30 Years.

PE and HDPE paints are used widely in many applications thanks to the extensive ranges of colors and economy-consideration, now the guarantee years can be extended from 5 years to 8 years with the different types of coating. HDPE finishes are also available as custom paint system.

Beckers





HORIZONTAL SECTION

