

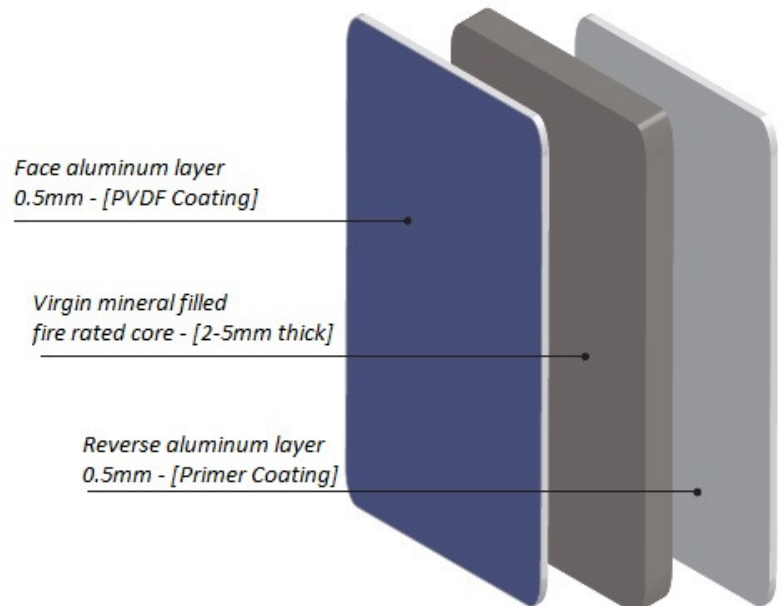
Fire Proof Aluminum Composite Panel:

HONYLITE™ A2 Aluminum Composite Panel is a fire-proof material that passes mandatory requirements for exterior application. It is composed of virgin special mineral filled fire rated core sandwiched between two skins of 0.5mm thick aluminum.

HONYLITE™ A2 is an extra-rigid material which, although has outstanding flatness properties, can still be fabricated into shapes and profiles when required.

The outward facing sheet is coated with a 25 micron layer of PVDF paint. A robust coating which is highly resistant to corrosive atmospheric conditions, solvents, acids, UV, heat and low smoke exposure.

The reverse side of HONYLITE™ A2 is covered with a PE primer finish which prevents any contact between the aluminium and the atmosphere, protecting it against corrosion.



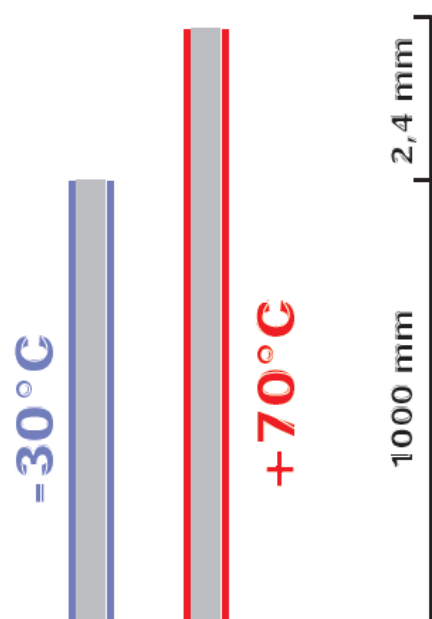
HONYLITE™ A2:

HONYLITE™ A2 is a fire proof material with outstanding performance. HONYLITE™ A2 is rated as A2-s1,d0 class material during fire tests in accordance with EN 13501-1:2007.

HONYLITE™ A2 can be produced in 4mm and 6mm thickness.

Nano-Photocatalysis Coating:

A thin transparent layer of this coating applied on a standard PVDF film provides advanced high-effective protection of the façade against atmospheric dirt and graffiti. The panel coating clears itself after a rain shower due to the special molecular structure of the paint which repels dirt and oil. Maintenance and cleaning costs may be reduced and surfaces remain clean and attractive.



Thermal Expansion:

Thermal expansion of HONYLITE™ A2 is completely defined by the thermal expansion of the Aluminium layers.

If the temperature rises by 100°C, the panel length increases 2,4mm per every meter.

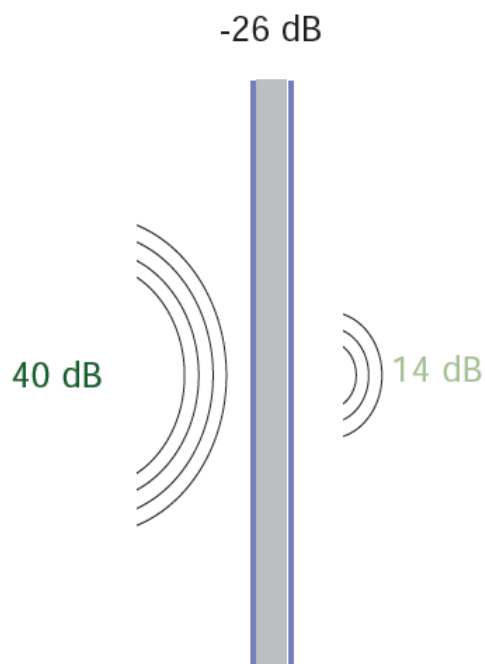
It's very important that any fixing system allows for panels to expand or contract freely during temperature fluctuations.

Noise Reduction:

HONYLITE™ A2 dampens sound by 26dB.

It provides extra sound comfort to inhabitants of buildings clad with HONYLITE™ A2.

Good noise damping properties also make HONYLITE™ A2 very good solution for such applications as facing transports interiors, making decorative cases for industrial equipment with high noise level and many others where sound isolation is necessary.



Data Sheet:

Standard Sizes		
Thickness	Width	Length
3mm, 4mm and 6mm	1000mm - 1500mm	2400mm - 8000mm

Physical Properties:

Thickness	4mm (0.5 Aluminium)	Standard
Density	1.37 g/m ²	ASTM D792
Panel Weight	7.64 kg/m ²	ASTM D792
Thermal Expansion	2.4 mm/m at 100°C difference	ASTM D696
Noise Reduction	26dB	ASTM E413
Temp for Thermal	>400 F	ASTM D648

Mechanical Properties:

Tensile Strength	47.7 Mpa	ASTM D638
Flexibility	Pass	ASTM D4145
Adhesion	Pass	ASTM D3355
Shear Strength	4350 PSI	ASTM D732
Yield Strength	45 Mpa	ASTM D638
Pencil Hardness	Gauge Hardness : H	ASTM D3363
Acidity and Alkalinity	NaOH - No changes observed after 15min + 1 Hour. About 2% of coating the spot removed after 16 hours. HcL- No Changes observed after 15 mins 1hr + 16hours	

Dimensional Tolerances:

Thickness (mm)	± 0.2
Width (mm)	±2
Length (mm)	±3
Diagonal (mm)	±5

Aluminum Skin Alloy

HONYLITE™ A2 panel normally uses Aluminum Alloy A1100. However, HONYLITE™ A2 panel can be supplied in any other alloys such as 3003 H18 or 5005 H24.

Colors

30 standard colors / customized colors (please refer to color chart)

Coating

- PE (Polyester) coating has a coating warranty for 10 years
- PVDF (Fluorocarbon) coating has a coating warranty for 15 years
- NANO PVDF (Fluorocarbon) coating has a warranty for 20 years.

Fire Safety Performance

EN 13501-1:2007

Reaction to fire classification – **A2 - s1, d0**