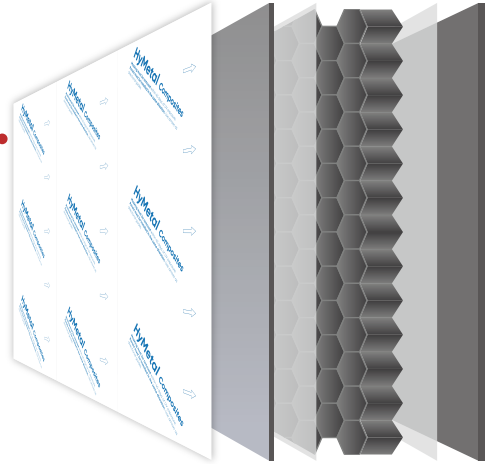


HyMETAL[®] A2 4mm

HyMETAL Aluminum honeycomb composites are high-performance composite materials consisting of pre-treated high-strength alloy aluminum sheets as the top and bottom layers, bonded to aluminium honeycomb core through a specialized manufacturing process. These panels are characterized by their light weight design, high strength, excellent rigidity, superior corrosion resistance, non combustible and stable performance.

Available with digital print receptive paint or FEVE/PVDF paint for long term signage

Protective film	0.40mm coated aluminum 5005 or 5052 Alloy
Bonding layer	Aluminium honeycomb core
Bonding layer	0.40 mm aluminum 3005, 5005 or 5052 Alloy



FEATURES OF THE PANEL

Total composite panel thickness
Width tolerance ≤ 1600 mm ± 0.2 mm 4mm
Width tolerance > 1600 mm $-0.1 / +0.5$ mm

Top aluminium thickness 0.40mm

Bottom aluminium thickness 0.40mm

Weight 3.5 kg/m²

Standard width
Tolerance ± 2 mm
1220mm
1250mm
1500mm
1575mm

Length
Tolerance ± 3 mm Customised

COATED ALUMINIUM SKIN FEATURES

Aluminium alloy 3005, 5005 or 5052

Yield strength ($R_{p0.2}$) > 80 N/mm²

Ultimate tensile strength (R_m) $125 < R_m < 185$ N/mm²

Elongation (A) $> 3\%$

MECHANICAL FEATURES OF THE PANEL

The purpose of the mechanical values is to be able to compare different product configurations. Specific calculations for each project must be requested to the HyMETAL[®] technical department.

**Rigidity (EI)
DIN 53293** 2825 kNcm²/m
2386 kNcm²/m

Acoustic insulation ($R_{(A)}$) 19.54 dBA

Thermal resistance (R) 0.0067 m²K/W

CORE FEATURES

Aluminium alloy 3005

Cell size 6mm

Foil thickness 50 μ

Compressive strength 2.20MPa

Density (P) 56 kg/m³

HyGROW
COMPOSITES

All our technical characteristics are indicative

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