



Construction



Advertising



Fabrication

Overview

Alcom aluminium composite is a lightweight, extremely rigid, multi-layered composite panel. Ideal for use in many applications such as signage, industry and fabrication. The special coloured coating on one side, provides a high gloss, attractive finish, while Alcom's robust structure offers extreme toughness and weather resistance for outdoor applications.

Application

- Architecture
- Signage
- Displays
- Car and ship bodies
- Building fascias
- Traffic signals
- Fabrication



aluminium composite

What We Stock

COLOURS	White, Silver, Blue, Yellow, Red , Green, Ivory, Black, Brushed Aluminium
WIDTH x LENGTH	3050 x 1500 (White, Blue, Yellow, Red , Green, Ivory, Silver)
	2550 x 1250 (White)
	2440 x 1220 (Black, Brushed Aluminium)

all Alcom® panels are 0.3 skin



Flammability

STANDARD	CLASSIFICATION
ASTM E-84-04	Up to 1550
BS 476: Part 6&7	Class 0
DIN 4102-1	B1

- Fire resistance exceeds Class B1 of the DIN 4102 flammability test
- Performs excellent in flame spread and smoke development tests

Specifications of Alcom®

ITEMS	STANDARD INDEX OF QUALITY PRODUCT	RESULT
Appearance	Clean surface without swell, flaws, scratch and aberration	Pass
	Length: ±3mm	0mm-+1mm
	Width: ±2mm	0mm-+1mm
Deviation of dimension	Thickness: 0.2mm	0mm-+0.14mm
	Deviation of diagonal: ≤5mm	0mm
	Out of straight at sides: ≤1mm/m	0.2mm/m
Thickness of coating	Warp: ≤5mm/m	1mm/m
	≤16μ m	17μ m(av 18)
	≤10	2.6(av 28.0)
Deviation of coating	≤10	2.6(av 28.0)
Hardness of pencil	≤HB	2H
Toughness of coating	≤3T	1T
Adhesive	Not less than grade 1	Squaring of grade 0, Grade 1 marking method of roling line
Impact strength	50kg.cm Without paint off and crack	Pass
Boiling water resistance	Boiling for 2h without change	Unchanged
Acid resistance	Immerse surface with 2% HC 1(vv) for 24h without change	Unchanged
Alkali resistance	Immerse surface with 2%NaOH 1(m/m) for 24h without change	Unchanged
Oil resistance	Immerse surface with 20# engine oil for 24h without change	Unchanged
Solvent resistance	Clean 100 times with dimethyly 1 benzene without change	Bottom unrevealed
Cleaning resistance	≤10000 times without change	Unchanged
Abrasion resistance density of surface	Specified value:+0.5kg/m ²	3.6kg/m ²
Bend strength	≤60MPa	79.6MPa
Flexous modulus of elasticity	≤1.5x 10 ⁴ MPa	2.19x10 ⁴ MPa
Through resistance	≤5.0kN	6.25kN
Cutting strength	≤20.0MPa	25.7MPa
180° peel strength	≤5.0N/mm	6.2N/mm
Resistance to change of temperature	-40°C -80°C, 20 cycles without changes	Unchanged
Heat deformation temperature	≤95°C	116°C
Coefficient of heat expansion	≤4.00 x 10 ⁻⁵ °C ⁻¹	2.47x10 ⁻⁵ °C ⁻¹

