



PALBOND™

Aluminum Composite Panel



Overview

PALBOND is a multi-layered composite panel with special features for advertising applications. Its robust structure of layered metal and polymer core offers extreme toughness. A solid color coating provides an attractive appearance and weather resistance for outdoor applications.

Main Benefits

- Extremely durable - No cracking or breaking
- Easily formed - No heating required
- High resistance to chemicals and solvents
- Weather resistant - For external uses
- Smooth and uniform - Visually attractive
- Easily bent, curved, drilled, routed, punched and shaped
- Lightweight

Typical Applications

- Attractive advertising signage
- Traffic signage
- Anti-vandal signage
- Large printed images
- Three dimensional signage

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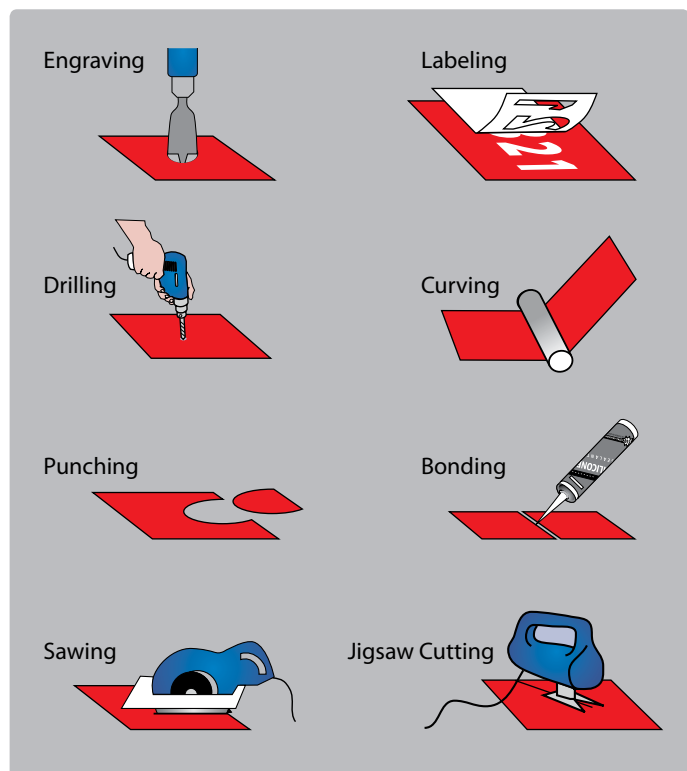
Product Availability

Property	Standard	Special Options*
Overall thickness	3mm	2, 3, 4, 5, 6mm
Aluminum layer thickness	300µm	200µm
Coating type	Polyester: One side	PVDF/Polyester: Both sides
Length	2440mm	Up to 6000mm
Width	1220	Up to 1550
Warranty	8 years	10 years (PVDF)
Colors	See below	Over 30 available
Fire retardant (FR)	-	Special request

*Other options are available, subject to minimum quantity. For more information please contact your PALRAM distributor.

Fabrication

PALBOND offers numerous fabrication options:



Standard Colors*

Color	RAL
Traffic Yellow	1023
Traffic Red	3020
Traffic Blue	5017
Traffic Green	6024
Jet black	9005
Traffic White (Grey coating on back side)	9016
Grey	9006
Silver	-

*Other colors are available, subject to minimum quantity.
For more information please contact your PALRAM distributor.

Typical Physical Properties

	Property	Method	Value
Panel	Weight	ASTM D-792	4.5 Kg/m²
	Service temperature		-50°C to +80°C
	Thermal expansion	ASTM D-696	24 - 28
	Flexural rigidity	ASTM C-393	14x10⁵ Kg/mm²
	Impact resistance	ASTM D-732	1.650 Kgf
	Adhesive strength	ASTM D-903	0.78 Kg/mm
	Flexural elasticity	ASTM D-790	4055 Kg/mm²
	Minimum bending radius	ASTM D-696	45 mm
	Wind pressure resistance	ASTM E-84	Passed
	Water tightness	ASTM D-331	Passed
Coating	Thickness	ISO-2360 (CNS84)	4.5 Kg/m²
	Gloss	ASTM D532-89	5-80 Kg/m²
	Pencil hardness	ASTM D-3363-74	2H
	Toughness	ASTM D-4145-83	2T, no rift
	Adhesive force	ASTM D-3359-87	100/100 - no peel
	Impact resistance	ASTM D-2794	No crack
	Abrasion resistance	ASTM D-968-81	50-80 KTR - No crack
	Mortar resistance	ASTM D-605.2-90	24H - PAT test exceed
	Humidity resistance	ASTM E-714-87	300Hr - No blister
	Boiling water resistance	ASTM D-3359-B	Passed
	Salt spray resistance	ASTM D-117-94	300Hr - No blister
	Acid resistance	ASTM D-1308-87	No effect
	Alkali resistance	ASTM D-1308-87	Passed
	Solvent resistance	ASTM D-2248-73	Passed
	Color retention	ASTM D-2248-73	E<5
	Chalk resistance	ASTM D-4214-89	Max value: 8 units
	Gloss retention	ASTM D-903	0.78 Kg/mm



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