

A2 · B1

Fire-Rated ACP Datasheet

Class A2 mineral-core and Class B1 flame-retardant aluminum composite panels, with the classifications, test standards and specification guidance behind them.

Classification Comparison

	FR A2 ACP	FR B1 ACP	Standard PE core
Core	Mineral, aluminium hydroxide	Flame-retardant PE	Polyethylene
Class	A2-s1, d0 / GB 8624 A2	GB 8624 B1	GB 8624 B2
Behaviour	Practically non-combustible	Slow flame spread	Normal flammable
Weight	Core about 50% heavier	Close to standard	Lightest
Price per m²	About 1.8–2.2× standard	Between standard and A2	Baseline
Typical use	High-rise, public buildings	Mid-rise commercial	Interior decoration only

Test Standards And Reports

EN 13501-1	A2-s1, d0 — report from an EU-notified body
GB 8624-2012	A2 and B1 — National Center for Building Materials Testing
ASTM E84	Class A — North American market
Availability	Certificates and recent test data are issued on request so you receive the current version

Which Class Does A Project Need

The local code decides, using building height and use. The general pattern:

- High-rise residential or commercial above about 24 m: A2 is usually required
- Mid-rise commercial, hospitals and schools: A2 or B1 depending on local code
- Low-rise commercial and interior partitions: standard PE core is often acceptable

FR A2 ACP

Class A2 is the practically non-combustible end of the composite panel range. The plastic core is replaced entirely with a mineral-based compound built on aluminium hydroxide and fillers. In a fire it does not burn, does not release toxic gases and does not produce flaming droplets.

Our A2 panel is classified A2-s1, d0 under EN 13501-1 — the best rating short of A1 — and A2 under GB 8624-2012. ASTM E84 Class A reports are available for North American projects.

Skin	Aluminum alloy coil, chemosynthesis pre-treated
Core	Mineral-based compound, aluminium hydroxide and fillers
Surface	PVDF, nano PVDF, FEVE or polyester as specified
Weight	Core roughly 50% heavier than a PE core panel of the same thickness

FR B1 ACP

B1 keeps a polyethylene core but compounds it with flame retardants so it does not ignite easily and flame spread stays slow. It is classified B1 under GB 8624-2012.

For mid-rise commercial work where the code stops short of demanding a non-combustible class, B1 is the practical answer: better fire behaviour than standard core, easier to laminate flat than A2, and considerably less expensive.

Skin	Aluminum alloy coil, chemosynthesis pre-treated
Core	Flame-retardant, low-smoke polyethylene compound
Surface	PVDF, nano PVDF, FEVE or polyester as specified
Bonding	Adhesive polyolefin film laminated under heat and pressure

Standard Specifications

Standard widths	1220 / 1250 / 1500 / 1550 / 2000 mm
Standard lengths	2440 / 3050 / 4880 mm
Total thickness	2 – 6 mm
Aluminum skin thickness	from 0.30 mm (customizable)
Coating thickness	≥ 25 μm (measured 27–30 μm)
180° peel strength	≥ 7.0 N/mm (measured 11.2 N/mm)
Bending strength	≥ 100 MPa (measured 121 MPa)
Salt spray resistance	3000 h, grade 1
Artificial weathering	4000 h, color difference ≤ 4.0 (measured 1.24)
MOQ	500 m ² per color
Colors	36+ standard colors, unlimited custom matching
Packing	Strong wooden pallet or nude packing

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