

Bonded Laminate Panel

The cladding material should be ‘deemed non-combustible’ under the Building Code of Australia (BCA) under Clause C1.9e and should be fully tested as required to AS1530.1 and AS1530.3.

Finish

The PVDF Paint System or Powder coating. PVDF and powder coating finishes to comply with the minimum performance requirements of AAMA 2605.

Fixing

Fixing System A cassette style concealed fixing system which is the same to fabricate and install as traditional ACPs.

Application

Type A, B, and C constructions where non-combustible materials are required such as mixed-use developments, residential construction, and large-scale government infrastructure projects like hospitals.

Warranty

Minimum 15-year warranty, subject to standard terms and conditions.

Panel Specification

The panel is to consist of several elements, each complying with non-combustibility requirements as specified in clause C1.9 of the BCA. The overall thickness of each panel to be approximate 4mm with a weight of approximate 4.6kg/m2. To be available in a range of sizes to suit various requirements, with possibility to offer custom sizing.

Dimensions

Thickness: approximately 4mm  
Weight: approximately 4.6kg/m2

Panel Composition

- External finish: PVDF Coloured Coating or Powder Coating
- Face skin: Approximately 0.7mm Aluminium of a minimum 3000 series
- Bonding: < 0.1mm Adhesive
- Core: Approximately 3mm Profiled Aluminium or Mineral Non-Combustible Infill
- Bonding: < 0.1mm Adhesive
- Rear skin: Approximately 0.5mm Aluminium of a minimum 3000 series
- Internal finish: Polyester Anti-corrosion Coating

Indicative Panel Sizes

Width	Length
1250mm	3200mm
	4000mm
1500mm	3200mm
	4000mm

Material Data

Classification	Test Standards	Unit	Result
Temperature Limit		°C	-50±80
Core Shear Properties	ASTM C393/393-11	MPa	Core shear ultimate strength: 0:91 Facing Stress: 130.7
Tensile Properties of Facing Aluminium Panel	ASTM E8/E8M15a	MPa	Tensile Strength: 172.9 MPa Elongation: 8.4%
Tensile Strength	ASTM C297/C297M15	MPa	0.81
Facing Peel Torque	ASTM D1781-98 (2012)	mm N/mm2	270
Thermal Resistance	ASTM C318-10	m2K/W	0.005
Acoustic Resistance	ISO 717-1	dB	Rw (C, Ctr) = 22 (-1,-2)

NOTES:

- DESIGNERS TO SEEK A BCA CONSULTANT ADVICE WHETHER A PERFORMANCE SOLUTION TO USE BONDED LAMINATE CLADDING MATERIAL IS ACCEPTABLE OR NOT.

