

symonite



COMMERCIAL | RESIDENTIAL | INFRASTRUCTURE | INDUSTRIAL | HEAVY & EMERGENCY VEHICLE



WALTER & OLIVER TUNBRIDGE AWARD FOR
**BUILDING
OF THE YEAR
2014**

Symonite was an integral element in supporting Wilson Architects to be awarded with the Walter & Oliver Tunbridge Award for Building of the year 2014.

Symonite enabled them to deliver a bespoke cyclone rated façade perfectly suited for the Townsville region, and challenging exterior conditions.

Photography by Christopher Frederick Jones



PROJECT NAME
JCU Educational Facility
ARCHITECT
Wilson Architects
SMARTFIX SYSTEM
Profile No. 11, 12, 17, 18
FAÇADE PANELS
SymoniteHD Anodic (Sapphire Anodising)
LOCATION
TOWNSVILLE QLD, Australia

symonite

Symonite is a multi-award winning manufacture of composite panels and has been used extensively on building façades for 30 years. Symonite is 100% Australian made and owned.

THE DIFFERENCE

The core of SymoniteHD is a fibre reinforced thermosetting Resol phenolic resin, which is vastly superior in performance characteristics as compared to thermoplastics such as polyethylene or polypropylene.

The unique superior qualities of Symonite include excellent temperature stability, increased rigidity and improved durability whilst emitting zero VOC's as a finished panel.

STANDARD SPECIFICATIONS

Available thickness range:	3 - 25mm
Standard thickness:	4mm
Standard panel width:	1220mm
Available panel lengths:	1850 - 2850mm (Minimum order quantities apply)
Standard panel lengths:	2150mm, 2500mm, 2850mm
Mass:	6.7kg/m ² (4mm thick)
Available surface quality:	Good one side, Good two sides
Standard surface quality:	Good one side
Use:	Internal, External
Aluminium thickness:	0.5mm
Acoustic properties:	29dB (4mm thick)
Appearance:	AS2924 and AS2925.2
Durability:	no change in bond strength after 1000 hours of salt spray exposure in accordance with ATSMB117-90
Gloss level:	25% ± 5% (colour dependent)

Detailed technical information available on request.

FIRE PERFORMANCE

The fibre reinforced phenolic core is unique amongst composite panels as its core does not melt or contribute to the spread of fire along a building façade.

Symonite phenolic core has excellent fire performance properties. CSIRO testing confirms Symonite complies with the Building Code of Australia requirements for use as interior and exterior cladding.

Country	Size	Standard		Result	
Australia	4mm	AS1530	Part 3	Ignitability Index (0-20) Flame Spread Index (0-10) Heat Evolved Index (0-10) Smoke Development Index (0-10)	0 0 0 0-1
UK	4mm	BS476	Part 6 Part 7	Class 0	
Singapore	4mm	BS476	Part 6 Part 7	Class 0	Code of Practice for Fire Precautions in Buildings 1991

FINISHES AND COATINGS

PVDF (standard)

PVDF coating is used extensively worldwide for curtain walling and facades. This enduring paint coating removes the need for repainting and requires little ongoing maintenance, making it an excellent façade choice. Because of the flexibility, this finish is ideal for finishes where panels are required to be folded or rolled. PVDF has a minimum life expectancy of 20 years under normal conditions. Visit www.symonite.com.au for the latest colour range.

Mill Raw Finish

A natural uncoated aluminium finish, ideal for industrial applications, that may contain some nominal scratch marks or scours. Generally not suitable for decorative applications.

Quality Raw finish

A high grade aluminium surface finish suitable for many professionally applied decorative coatings;

- **Anodising** - available from expert anodisers in a range of colours that showcase its interesting metallic appearance
- **Two Pak Polyurethane** - professionally applied paint system available in an unlimited colour range suitable for smaller custom projects or corporate branding
- **Photo Printed** - using the latest digital technology, UV stable photo quality imagery can be printed directly on to Symonite, allowing endless design possibilities

Other surface overlays are able to be bonded to SymoniteHD phenolic core. For more information contact Symonite.

ADVANTAGES

- Homogenous thermal expansion means no differential thermal expansion between the panel's aluminium skin and its core therefore ensuring panel flatness over a wide temperature range
- High thermal temperature stability prevents creep and telegraphic deformation of the external face of the panel on high ambient or high surface temperature conditions because the core does not soften
- The ONLY Australian manufactured and mechanically fixed aluminium composite panel façade system approved for use in cyclone regions
- Symonite is fully developed locally and ideal for extreme Australian conditions
- Proven impact resistance between 300% to 500% greater than a typical polyethylene core
- Cost competitive in comparison to solid metal sheets
- Symonite can be manufactured between 3mm and up to 25mm thickness
- The ONLY aluminium composite panel able to be anodised specifically to your requirements
- Colours can be specified to match corporate identity and branding



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