

Technical data

Panel size

Standard sheet size: 2400mm x 1200mm
 Standard thicknesses: 8mm, 12mm, 16mm, 18mm, 25mm, and 30mm

Note: All sheets are supplied calibrated sanded ready for finishing. Sheets can be supplied raw, laminated with fiberglass-reinforced plastic, or with high-grade luxury veneers

Test results

Reference	Sample result
Closed cell content	95%
Cell structure	Fine and even
Water Permeability	Dry – pass
Freeze–thaw	Pass
Soak–dry	Pass
Warm water	Pass
Mechanical and physical	Pass
AS/NZS 2908.2:2000	CSIRO tech asses 312

Thermal Resistance	R Value (m ² -k/w)	R Value (hr-F-ft ² /Btu)
8mm	0.30	1.7
12mm	0.44	2.5
16mm	0.59	3.4
18mm	0.67	3.8
25mm	0.93	5.2
30mm	1.11	6.3

Structural Testing

Density	
ASTM C 271-94	210kg/m ³
Tensile strength	
ASTM C 297-94	2.9MPa
Compressive strength	
ASTM D 1621-94	2.7MPa
Compressive modulus	
ASTM D 1621-94	105 Mpa
Shear strength	
ISO 1922 :2001(E)	1629 kPa
Shear modulus	
ISO 1922 :2001(E)	13920 kPa
Flexural modulus	
at 100mm flex	120330 kPa
at 50mm flex	64035 kPa
ASTM D790	
Building Code	
BCA 2005 Vol 1	Class 2, 3, 5, 6, 7, 8 & 9

MultiPanel is not considered harmful by Worksafe Victoria, however, eye, ear and mouth protection should always be worn whenever cutting or sanding MultiPanel.

Fire testing

Reference	Sample result
Simultaneous Determination of ignitability, flame propagation, heat release and smoke release	
AS/NZS 1530:3:1999	15, 0, 0, 4
CSIRO Report No.	FNE 8562

Airworthiness Standards: Transport Category - Airplanes

FAR Part 25 -1995	
Section 25.853	
FAR 25.853 APPF	COMPLIES
AWTA Test No.	7 – 549611 – AV

The MultiPanel fire retarded foam system is tested to BS 4735/ISO 3582 standards specified by LNG plant constructors and operators globally. Test results indicate low mean extent of burning, short mean extinguishing times and low rates of burning.

Flammability

Mean extent of burning	4mm
Mean extinguishing time	3 seconds
Mean rate of burn	Self extinguishing

Fire retarded foam system

MultiPanel is a PU technology; the panels are being produced with an added fire retardant. This unique blend of fire retardant additives contains no leachable Halides. This additive works by promoting charring when the foam is exposed to a source of ignition and starving the fire of oxygen. The additive is non corrosive and is specially formulated for applications where foam can be in contact with metal surfaces in areas of high humidity.

Acoustic properties

MultiPanel is not a sound deadening material however it has noise reduction of 15–20 decibels insertion loss.

Technical Support

MultiPanel offers support throughout the duration of your project. Please call local distributor.

Further information

For Material Safety Data Sheet
 CSIRO detailed test Report
 USQ detailed Engineering Tests
 Detailed fire tests
 Contact local distributor.