

MULTIPANEL

Technical Data

/ WHAT IS MULTIPANEL?

MULTIPANEL manufactures a revolutionary, high-density, polyurethane composite building panel, that is lightweight, 100% Waterproof, Eco-Friendly, Labour Saving, and Insulating.

This innovative product is currently the most technologically advanced construction panel on the global market. It is a significantly superior alternate to traditional building materials.

/ PANEL SIZES

Sheet Size (mm)	Product Code	Thickness	Weight	Weight / m ²
2400 x 1200	MP08	8mm	5.2kg	1.81kg
2400 x 1200	MP12	12mm	7.2kg	2.50kg
2400 x 1200	MP16	16mm	9.2kg	3.19kg
2400 x 1200	MP18	18mm	10.2kg	3.54kg
2400 x 1200	MP25	25mm	13.5kg	4.69kg
2400 x 1200	MP30	30mm	18.0kg	6.25kg

Note: All sheets are supplied calibrated sanded ready for finishing.

/ WATERPROOF 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

Panel Thickness	"R" Value (M ² -k/w)	"R" Value (Hr-F-ft ² /Btu)
8mm	0.3	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 ±10%
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	

/ FIRE TESTING

SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE and SMOKE RELEASE

Reference	Sample result
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

FLAMMABILITY

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

FIRE RETARDANT FOAM SYSTEM

The MULTIPANEL fire retardant 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.

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.

/ BUILDING CODE – AUSTRALIAN STANDARDS

BCA 2005 Vol 1: Class 2, 3, 5, 6, 7, 8 & 9. The MULTIPANEL Balcony Substrate Waterproofing System and the MULTIPANEL Internal Wet Area Waterproofing System both meet the standards AS3740, AS4654. For more information on these systems please see the system installation guides.

/ SAFETY

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

/ TECHNICAL SUPPORT

MULTIPANEL offers support throughout the duration of your project. Please call us on +61 (0)3 9787 2544 or info@multipanel.com.au

/ FURTHER INFORMATION

In some cases, there may be tolerances and standard deviations specific to a test which have not been published above. It is important MULTIPANEL is always installed in accordance with the most recent install guide or information from the company, all of which can be found on our website or by contacting us on:

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MULTIPANEL



Waterproof
Building
Panels

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Warranty and conditions

The company warrants the MULTIPANEL ("the product") for period of (10) years ("the warranty period") from the date of purchase, that it will be free from defects due to faulty manufacturing, and will be resistant to cracking, rotting, water, fire, and damage to the extent set out in the relevant MULTIPANEL published literature, and subject to compliance to the conditions set out below.

Conditions of warranty

The warranty is strictly subject to the following conditions (which are in addition to and do not displace the MULTIPANEL Terms and Conditions of Sale).

- a. The product and any other components of the system must be installed in accordance with the relevant MULTIPANEL literature current at the time of installation. Further to all other products including jointing and sealing systems, that are applied or used in conjunction with the product must be installed as per the relevant manufacturer's specifications at the time of installation.
- b. MULTIPANEL will not be liable for, and will not accept any breach of Warranty claims, unless the claimant provides proof of purchase within 30 days of the alleged defect becoming apparent.
- c. Under no circumstances is the Warranty transferable.
- d. MULTIPANEL will not be liable for defects arising from materials and components not supplied by MULTIPANEL, or the use of goods by a person in a manner not consistent with the recommendations made by MULTIPANEL.
- e. A claimant's sole remedy for breach of Warranty is (at the company's option) that MULTIPANEL will repair or replace the defect, pay the cost of replacement or rectification of the affected product, or supply replacement product.
- f. Under no circumstances will MULTIPANEL be liable for any damages or losses to property damage and personal injury, economic loss or loss of profits, arising from contract or negligence or howsoever arising. Without limiting the foregoing, MULTIPANEL will not be liable for any claims, damages or defects arising or in any way attributable to poor or defective workmanship, poor design and detailing, defective materials, structural movement and/or movement of materials to which the product is attached to, acts of God including but not limiting to severe weather conditions or unusual climate conditions, normal wear and tear, or growth of any organism on the product. **Disclaimer** The recommendations in this literature are based on good building practice, but is not an exhaustive statement of all relevant information as the successful performance of the system depends on several factors outside the control of MULTIPANEL, for example the quality of workmanship and design.

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