

Multipanel- Building Panels

Overview:

Durable, lightweight and zero VOC building panels made partially from plant-oil base and high-density polyurethane. Suitable for various indoor and outdoor applications.

Product Description:

Extremely lightweight, rigid building panels made partially from renewably sourced plant-base and high-density polyurethane foam, with zero VOCs. The panels are approximately 60% lighter than traditional building materials. Multipanel provides a suitable alternative to MDF, fibre cement sheeting, particle board or plasterboards, marine plywood, balsa wood core products and other composite materials. Multipanel can be used for similar applications to these traditional materials.

Panels can be a suitable replacement for timber based comparative products, conserving forests. Lightweight material saves in transport energy and allows for easy installation.

Manufacturer states the product has similar structural qualities, and Thermal Resistance values show superior thermal properties, relative to comparative building panels.

Durable and waterproof, panels are compatible with a variety of finishes including textured coatings, acrylic paints, laminates, timber veneers, tiles, granite, stonework or metal.

Can be used for applications across a wide variety of industries including building and construction, marine, trains, aviation, caravans, refrigeration, fencing, landscaping, waterfeatures, signwriting and more.

Multipanel recommend the use of a solvent-free, one part polyurethane moisture curing adhesive (see minor Issues of Concern). This solvent-free adhesive complements the already environmentally preferable and zero VOC product.

Issues of Concern/ Red Lights?

Minor health issue- Multipanel recommend the use of Bostik: U-Bond, a solvent-free, one part polyurethane adhesive. The adhesive contains free organic isocyanates, and is moisture curing. According to the MSDS, the adhesive may be irritating to eyes, respiratory system and skin. There is limited evidence that skin contact may produce health damage, and cumulative effects may result following exposure. There is also limited evidence of a carcinogenic effect. Personal protective equipment (PPE) is recommended.

Persons with a history of asthma, other respiratory problems, or known to be sensitive, should not be engaged in any work involving the handling of isocyanates.

Assessment Comparison:

MDF, fibre-cement sheeting, particle board or plasterboards, marine plywood, balsa wood core products and other composite materials.

Indicative cost:

Please contact Multipanel Pty Ltd directly to confirm pricing.

Australian Manufacture/Fabrication:

Manufactured in Carrum Downs, Victoria

Availability:

ACT, NSW, NT, QLD, SA, TAS, VIC, WA, UAE, Dubai

http://www.ecospecifier.org/products/public/multipanel_multipanel_building_panels_blp

Assessment Criteria Satisfied

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ENERGY/GREENHOUSE	Low energy in production Potential less GHG/ODP down stream
HABITAT & LAND	Reduced terrestrial impact
RESOURCE DEPLETION & EFFICIENCY	Reuse potential Reduced transport energy Reduce material use
HUMAN HEALTH	Low/reduced offgassing Reduced toxics or carcinogens
POLLUTION TO ENVIRONMENT	Reduced chemical toxicity through Life Cycle Reduced smog-forming potential
OTHER VITAL SIGNS	MSDS Independent Verification Doc Manuf Claim Environmental info about product Australian Standard

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