

Woven Image - EchoPanel® Mura

Overview

A flexible 60% recycled PET panelling product which is suitable for acoustic and privacy screen applications in commercial workstation, partitioning, wall and ceiling systems. Come in rolls.

Product Description

EchoPanel® is manufactured from non-woven PET (Polyethylene Terephthalate) and is lightweight, low VOC, contains no adhesives, is highly durable and 100% recyclable.

The product is an alternative to textile covered metal tiles and finished composite boards used in commercial workstations and partitioning systems. These traditional systems require the use of adhesives, laminates and fabrics which increase material handling and decrease recyclability. No adhesives are required in the installation of the product and if this is followed the product is highly re-usable and/or easily disassembled for recycling purposes.

EchoPanel® is able to be recycled by the Australian supplier, Woven Image, if uncontaminated by adhesives, metals or other foreign substances. Woven Image has collection points established with manufacturers using their product to take back suitable scrap and used (end-of-life) fabric. Material is delivered to an Australian third party to be processed.

The product is solution dyed using Oeko-Tex Standard 100 approved fabric colours.



PRODUCT SPECIFICATIONS

Options	<i>EchoPanel® Frequency</i> <i>EchoPanel® Hex</i> <i>EchoPanel® Puzzle</i> <i>EchoPanel® Ripple</i> <i>EchoPanel® 27</i> <i>EchoPanel® Code</i> <i>EchoPanel® Tile</i>
Colours	12 colours available (<i>EchoPanel®</i> 294, 295, 300, 361, 442, 500, 542, 551, 650, 579, 612, 909)
Warranty	1 year
Expected Life	5-10 years



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Indicative Costs	From \$99 wholesale
Purchase Options	None
Constituents	100% non woven PET (60% recycled content)
National & International Standards	<p>Oeko-tex Standard 100, Test-No. ZHWO 051394 (Human-ecological)</p> <p>ISO 9001</p> <p>Colour Fast:</p> <ul style="list-style-type: none"> - ISO 105-B02-1994 Rating: 6-7 - AS 2001.4.21-1970 Rating: 6-7 <p>Fire Test:</p> <ul style="list-style-type: none"> - AS 1530.3 - AS/NZS 3837 Rating: Group 3 <p>Sound absorption:</p> <ul style="list-style-type: none"> - AS 1935.1-1998 NRC Value: 0.54 (with 20mm air gap) <p>VOC emissions:</p> <ul style="list-style-type: none"> - ASTM D5116 Rate: < 0.02 mg/m²/hr (7 days)
Country of Origin	Materials sourced in Asia, product manufactured in Australia.
Projects	<ul style="list-style-type: none"> - Green Building Council of Australia Sydney Office "The Greenhouse" (Level15/179 Elizabeth St, Sydney, NSW) - BHP Billiton Iron Ore (Western Australia) - Parsons Brinckerhoff (World Tower in the Sydney CB) - Australian Research Council (Brindabella office Park, Canberra International Airport) - T.A.B (Brandon Street, Wellington, New Zealand) - New Dowse (Lower Hutt, NZ) - Mama Duke & Luca at Monash University (Caulfield, Victoria)
Preparation	-

ECOSPECIFIER LIFE-CYCLE ASSESSMENT

INTEGRATED DESIGN AND POLICY ISSUES

EchoPanel® fabrics are constructed using varying amounts of recovered post-consumer and post-industrial waste yarns and fibres, minimising the impact of post-industrial waste going into landfill and reducing overall material



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consumption, greenhouse gas and chemical emissions, energy consumption and water pollution.

Low VOC products in a commercial setting are advantageous as they contribute to improve Indoor Air Quality (IAQ). Poor indoor environments are often linked with sick building syndrome contributing to worker absenteeism, due to the following potential health effects from contact with VOC's including irritation to the throat, eyes and nose, nausea, headaches, loss of coordination, damage to the kidney, central nervous system and lungs. Therefore low VOC products are advantageous as they increase worker productivity.

HUMAN HEALTH

Health

There is no significant impact as the product is low VOC and doesn't require any adhesives in its installation, reducing associated health impacts.

The fabrics are certified to the Oeko-Tex Standard 100, meeting stringent human and ecological requirements.

Comfort

Not applicable

Indoor Environment Quality

EchoPanel® has been third-party independently tested and found to have low volatile organic compound (VOC) emissions of less than 0.02 mg/m²/hr after 7 days when tested to ASTM D5116 standard.

Electromagnetic Radiation

Not Applicable

Safety

Not Applicable

Accessibility

Not Applicable

ECOLOGICAL QUALITY

Terrestrial Pollution

Emissions – The polyester based fabrics are principally derived from petroleum based polymers. Petroleum extraction and distribution can contribute to oil spills.

Physical – PET is petrochemical based, and will therefore have limited physical pollution due to oil extraction. The high recycled content (60%) reduces landfill impacts. The remaining virgin polyethylene is petrochemical based, and will therefore have some limited physical pollution due to oil extraction.

Aquatic Pollution

Emissions – Fabrics meet the Oeko-Tex Standard 100 toxicity requirements are likely to have minimal toxic waste water emissions.

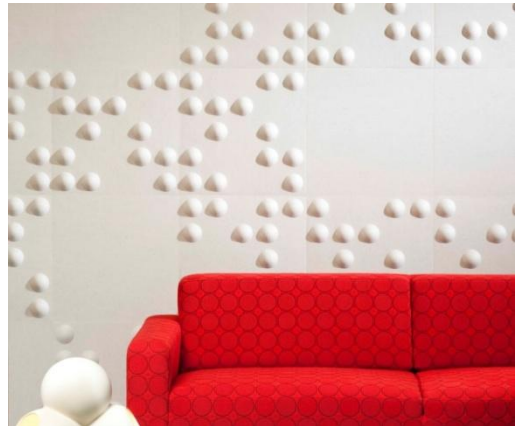


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Physical – Petrochemical extraction can cause localised aquatic disturbance around oil fields via mining infrastructure and dredging of the seabed.

Atmosphere Pollution

Greenhouse (GHG) – This product utilises virgin polyester (approximately 30-40%), which is fabricated from fossil fuels. Fossil fuels generate both atmospheric pollutants and greenhouse gases on combustion. Product contain post-consumer recycled polyester from PET waste which requires less energy input than producing virgin polyester from scratch.



Greenhouse gas emissions are associated with the spinning, weaving and dyeing of the fabric, electricity is used for these processes.

- *Greenhouse intensity – EchoPanel®* – approx 3.466 kgCO_{2e} / m³*

**General Polyethylene Greenhouse intensity figures used as a proxy. Figures sourced from Bath University, UK.*

Transport intensity – Product constituents are sourced in Asia. The product is manufactured in Australia. Product is transported to the whole Australia by rail and road.

Table below provides land transportation greenhouse intensity figures to help calculate the greenhouse gas intensity of land transportation from shipping port.

Light commercial vehicle	Rigid Truck	Articulated Truck
0.001451kgCO _{2e} / kg.km	0.000195kgCO _{2e} / kg.km	0.000169kgCO _{2e} / kg.km

Transport intensity figures sourced from Australian National Greenhouse Gas Inventory 1990, 1995 and 1999 and WWF International, Inland Navigations and Emissions, 2005.

Operational efficiency – Not applicable.

Re-use Efficiency – Product can be reused depending on application, and if it is not damaged during removal from previous application.

Toxics and Pollutants – None known.

Ozone Depletion – Not applicable.

Urban Heat Island Effects – Not applicable.



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Noise – Fabrics meet the standard AS 1935.1-1998 NRC with a 0.54 value. The fabrics may contribute to achieve the 0.70 value needed for a panel to have the sound absorption required by the standards (Victoria only).

Biodiversity

The fabrics are made from polyester which generates biodiversity impacts through the atmospheric emissions generated during the extracting and manufacturing processes. These have not been quantified in terms of impacts on biological systems, except in the case of oil-spill impacts which, while rare, can have significant long-term localised impacts. The impacts are reduced as the product contains recycled polyester.

RESOURCE DEPLETION

Resource Efficiency

Impacts are reduced considerably by recycled content (up to 60% Post consumer waste sourced from recycled PET bottles). The virgin content of the primary component of product is polyester, which is derived from fossil fuel based feedstock and is a non-renewable resource.

There is also no waste in production as source fibre that is not transformed into useful product is collected and re-used (post industrial recycling).



Embodied Fossil Fuel Energy

- *Embodied Energy – EchoPanel® – approx 113.85 MJ / m³**

**General Polyethylene Greenhouse intensity figures used as a proxy. Figures sourced from Bath University, UK.*

Transport intensity – Product constituents are sourced in Asia. The product is manufactured in Australia. Product is transported to the whole Australia by rail and road.

Embodied Water

Information not available.

Durability

The polyester fabrics are durable, abrasion resistant, and dimensionally stable with an expected life of 5 to 10 years.

Reusability



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Reusability will depend on the final assembly of the fabrics into an internal shading system.

Repairability

See maintenance guidelines. More extensive damage may not be repairable.

Design for Dematerialisation

Light weight, *EchoPanel*® reduces material consumption and doesn't need any adhesives.

Design for Disassembly

The product doesn't require and bond or adhesive to be installed. It is recommended to fix it mechanically which makes the disassembly easy.

Recyclability

Polyester fabric is recyclable (where facilities exist) if uncontaminated by adhesives, metals or other foreign substances. Woven Image will collect uncontaminated materials for recycling.

Maintenance

Dry clean P, CTA Care Label 1.

Product Takeback Scheme

Yes, for uncontaminated materials, Woven Image will accept *EchoPanel*® for recycling.

Extended Producer Responsibility

Yes, product takeback scheme.

CORPORATE AND SOCIAL SUSTAINABILITY

Audits and Environmental Reporting

EchoPanel® is certified to the Oeko-Tex Standard 100, meeting stringent human and ecological requirements. The certification is valid for one year, requiring retesting for renewal.

Convictions

No.

Environmental Policy

Yes.

Social Enhancement Programs



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No.

Technology Transfer Programs

No.

Environmental Management Systems (EMS)

Yes, there is an EMS. Woven Image also plans to be ISO 14001 certified.

ECOSPECIFIER ISSUES OF CONCERN / RED LIGHTS

Issues of Concern

Product has no issues of concern. See below for detailed results of assessment.

ECOSPECIFIER GREENRATE GREEN BUILDING SCHEME PRE-ASSESSMENT

Etidama Pearls Design System for New Buildings

LIVEABLE BUILDINGS

<u>LB-34 Note1: Indoor Noise Pollution</u> Product may assist in a project obtaining this credit by improving the noise isolation of normally occupied premises/rooms to reduce impact of unwanted noise. Credit point is achieved if internal ambient noise levels do not exceed 40 dBA for 95% of the occupied area. <i>Product may contribute as an individual component, in combination with other suitable components, in achieving an Indoor Noise Pollution that complies, in whole or in part, with the prescribed requirements.</i>	<i>Points Available</i> 1
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STEWARDING MATERIALS

<u>SM-6: Non-Polluting Materials</u> Product may assist in a project obtaining this credit for non-polluting materials to eliminate long-term negative impacts on human health and pollution of natural systems. Credit point is awarded if requirements determined in EPDS are met.	<i>Points Available</i> 4
<u>SM-10: Recycled and Recyclable Materials</u> Product may assist in a project obtaining this credit for increasing the demand for materials that extend the life cycle of their constituent elements and reduce the amount of waste going to disposal. 1 credit point is achieved if the value of materials determined in EPDS	<i>Points Available</i> 2



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constitute 2%, 2 credit points if 4% of the total materials cost.

LEED® for Commercial Interiors - Version 3 (see LEED® disclaimer below)

MATERIALS AND RESOURCES

MR Credit 4: Recycled Content

Product is likely to assist in a project obtaining this credit. The project must incorporate post-consumer and pre-consumer recycled content of at least 10% or 20% based on the total value (cost) of materials used in the project, in accordance with the prescribed requirements.

Points Available
2

LEED® for New Construction & Major Renovations - Version 3 (see LEED® disclaimer below)

MATERIALS AND RESOURCES

MR Credit 4.1: Recycled Content

Product is likely to assist in a project obtaining this credit. The project must incorporate materials with recycled content such that the sum of postconsumer recycled content plus 1/2 of the preconsumer content constitutes recycled content of at least 10% or 20% based on the total value (cost) of materials used in the project.

Points Available
2

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BREEAM Issue 3 (see BREEAM disclaimer below)

HEALTH & WELLBEING

Hea 13 Note 1 – Acoustic performance

Product is likely to assist in a project obtaining credits by providing acoustic insulation so that the building meets the appropriate acoustic performance standards for its purpose and meets the required sound insulation between acoustically sensitive rooms. The second point can be independently awarded when areas used for speech achieve reverberation times compliant with the prescribed standard.

Product may contribute as an individual component, in combination with other suitable components, in achieving Acoustic performance that complies, in whole

Points Available
2



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or in part, with the prescribed requirements.

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BCA Greenmark Landed Houses v1 (see disclaimer below)

ENVIRONMENTAL PROTECTION

3-1(c)(ii) Sustainable Products: Recycled Content

Product is likely to assist in a project obtaining credit points as it has a recycled content of at least 30% by weight or volume. Number of points awarded is determined by the level of impact of the item(s).

Points Available

2

BCA Greenmark Non-Residential Buildings v3 (see disclaimer below)

ENVIRONMENTAL PROTECTION

3-1(c)(ii) Sustainable Products: Recycled Content

Product is likely to assist in a project obtaining credit points as it has a recycled content of at least 30% by weight or volume. Number of points awarded is determined by the level of impact of the item(s).

Points Available

4

INDOOR ENVIRONMENT QUALITY

4-2 Note 1 Noise level

Product is likely to assist in a project obtaining credit points by assisting in the achievement of ambient sound levels recommended in the prescribed standard.

Product may contribute as an individual component, in combination with other suitable components, in achieving Noise level that complies, in whole or in part, with the prescribed requirements.

Points Available

2

BCA Greenmark Office Interior v1 (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

4-5 Note 1 Internal Noise Level

Product is likely to assist in a project obtaining credit points by assisting in the achievement of ambient sound levels recommended in the prescribed standard.

Product may contribute as an individual component, in

Points Available

2



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combination with other suitable components, in achieving Internal Noise Level that complies, in whole or in part, with the prescribed requirements.

BCA Greenmark Infrastructure v1 (see disclaimer below)

Product does not assist in the achievement of credit points in this rating tool.

BCA Greenmark Residential Buildings v3 (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

4-1 Note 1 Noise level

Product is likely to assist in a project obtaining credit points by assisting in the achievement of ambient internal noise levels at or below the specified levels.

Product may contribute as an individual component, in combination with other suitable components, in achieving Noise level that complies, in whole or in part, with the prescribed requirements.

Points Available

1

BCA Greenmark Non-Residential Existing Buildings v2 (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

4-5 Note 1 Internal Noise Level

Product is likely to assist in a project obtaining credit points by assisting in the achievement of ambient sound levels recommended in the prescribed standard

Product may contribute as an individual component, in combination with other suitable components, in achieving Internal Noise Level that complies, in whole or in part, with the prescribed requirements.

Points Available

2

Green Building Index Non-Residential New Construction v1 (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

EQ13 Note 1 Internal Noise Levels

Product is likely to assist in a project obtaining credit points by directly reducing and maintaining internal noise levels below the specified sound levels.

Product may contribute as an individual component, in combination with other suitable components, in achieving Internal Noise Level that complies, in whole or in part, with the prescribed requirements.

Points Available

1



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MATERIALS & RESOURCES

MR2 Recycled Content Materials

Product is likely to assist in a project obtaining credit points as a material that incorporates recycled content into its production. One point is awarded when the sum of post-consumer recycled content and one-half pre-consumer recycled content is greater than or equal to 10% (based on cost) of the total value of the materials in the project, two points are awarded where the sum of post-consumer recycled content and one-half pre-consumer recycled content is at least 30% (based on cost) of the total value of the materials in the project.

Points Available

2

Green Building Index Residential New Construction Version 1 (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

EQ3 Note 1 Sound Insulation

Product is likely to assist in a project obtaining credit points by assisting in the reduction of sound penetration between dwelling units and intra dwelling walls to levels below the established benchmarks.

Product may contribute as an individual component, in combination with other suitable components, in achieving Sound Insulation that complies, in whole or in part, with the prescribed requirements.

Points Available

2

MATERIALS & RESOURCES

MR4 Recycled Content Materials

Product is likely to assist in a project obtaining credit point as a material that incorporates recycled content into its production. 0.5 point is awarded when the sum of post-consumer recycled content and one-half pre-consumer recycled content is greater than or equal to 10% (based on cost) of the total value of the materials in the project, and 0.25 point for every additional 5% for a maximum of one point.

Points Available

1

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National Australian Built Environment Rating System (NABERS) Compatibility



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Product may assist in the achievement of IEQ credits in this rating tool.

Product does not assist in the achievement of Water and Energy credit points in this rating tool.

BASIX building Sustainability Compatibility

Product does not assist in the achievement of credit points in this rating tool.

Green Star™ Office Interiors Version 1.1 Compatibility (see Green Star™ disclaimer below)

INDOOR ENVIRONMENT QUALITY

<p><u>IEQ-10 Note 1 : Internal Noise Levels</u></p> <p>Product is likely to assist in a project obtaining this credit by directly reducing internal noise levels through sound control or minimising noise generation. Credit points are achieved where ambient internal noise levels and reverberation times meet the prescribed requirements.</p> <p><i>The manufacturer/supplier offers a product which contributes to the achievement of credit points in combination with other products in compliance with Internal Noise criteria.</i></p>	<p><i>Points Available</i></p> <p>1</p>
<p><u>IEQ-11 Note 1: Volatile Organic Compounds: Tenancy Fitout Items</u></p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) emission standards for Tenancy Fitout Items (e.g. workstations, walls/partitions, chairs, tables and storage units). To achieve credit points all Tenancy Fitout Items used in the fitout must be in accordance with the prescribed standards.</p> <p><i>Product is likely to contribute as an individual component, in combination with other suitable components, in achieving a tenancy fitout item which complies with the required VOC emission level standards.</i></p>	<p><i>Points Available</i></p> <p>2</p>

MATERIALS

<p><u>Mat-1 Note 1: Workstations (also see sub-component calculator below)</u></p> <p>Product is likely to assist in a project obtaining credits as it meets in whole (or in part) the prescribed requirements for workstations. Credit points are achieved when a product has a reduced environmental impact as determined by the Mat-1 Workstation Calculator.</p> <p><i>Product may contribute as an individual component, in combination with other suitable components, in achieving a workstation which complies in whole (or in part) with the prescribed requirements. See Mat-1 Workstation</i></p>	<p><i>Points Available</i></p> <p>7</p>
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Calculator (Sub-Component Adaption) under the ecospecifier Greenrate Green Building Pre-Assessment section (in relevant product listing) for clarification on the criteria the product meets.

Mat-3 Note 1: Walls and Partitions (also see sub-component calculator below)

Product is likely to assist in a project obtaining credits as it meets in whole (or in part) the prescribed requirements for wall and partitions. Credit points are achieved when a product has a reduced environmental impact as determined by the Mat-3 Walls and Partitions Calculator.

Product may contribute as an individual component, in combination with other suitable components, in achieving walls and partitions which comply in whole (or in part) with the prescribed requirements. See Mat-3 Walls and Partitions Calculator (Sub-Component Adaption) under the ecospecifier Green Star™ Pre-Assessment section (in relevant product) listing for clarification on the criteria the product meets.

Points Available

3

Green Star™ Material Calculator for EchoPanel® – Woven Image (Sub-Component Adaption*)

<i>Eco Preferred Content</i>	<i>Durability</i>	<i>Environmental Management System (EMS)</i>	<i>EMS ISO 14001 Certified?</i>	<i>EMS – Waste Minimisation</i>	<i>EMS – Energy Consumption</i>	<i>EMS – Emissions</i>	<i>EMS – Materials Minimisation</i>	<i>Product Stewardship</i>	<i>Modularity</i>	<i>Designed for Disassembly</i>
≥20%	≥7 yrs <10 yrs	Yes	No	Yes	Yes	Yes	Yes	Yes	Sub-component	

**Modified by ecospecifier for presentation purposes. Source – Green Star Office Interiors v1.1 Rating Tool*

If all products used in the walls ceilings and/or partitions exhibit equivalent or better qualities, the overall assembly may score the maximum 7 credit points in workstation calculator and 5 credit points in Walls and Partitions calculator.

Green Star™ Office Design Version 3 Compatibility (see Green Star™ disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-12 Note 1: Internal Noise Levels

Product is likely to assist in a project obtaining this credit by directly reducing internal noise levels through sound control or minimising noise generation. Credit points are achieved where ambient internal noise levels and reverberation times meet the prescribed requirements.

Product may contribute as an individual component, in combination with other suitable components, in achieving an Internal Noise Level that complies, in whole or in part, with the prescribed requirements.

Points Available

2



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INDOOR ENVIRONMENT QUALITY

<u>IEQ-12 Note 1: Internal Noise Levels</u>	<i>Points Available</i> 1
<p>Product is likely to assist in a project obtaining this credit by directly reducing internal noise levels through sound control or minimising noise generation. Credit points are achieved where ambient internal noise levels and reverberation times meet the prescribed requirements.</p> <p><i>Product may contribute as an individual component, in combination with other suitable components, in achieving an Internal Noise Level that complies, in whole or in part, with the prescribed requirements.</i></p>	

MATERIALS

<u>Mat-3: Recycled Content and Re-used Products and Materials</u>	<i>Points Available</i> 3
<p>Product is likely to assist in a project obtaining credits as it meets in whole (or in part) the prescribed requirements for materials containing post consumer recycled content for base building construction, or reused products/materials. One Credit Point is achieved when 2% of the contract value is represented by reused products/materials and one and two points are achieved when 1% or 2% of the projects contract value represents materials with 50% post consumer content.</p>	

Green Star™ Education Version 1 Compatibility (see Green Star™ disclaimer below)

INDOOR ENVIRONMENT QUALITY

<u>IEQ-7 Note 1: Internal Noise Levels</u>	<i>Points Available</i> 2
<p>Product is likely to assist in a project obtaining this credit by improving ambient noise levels in accordance with AS/NZS2107:2000 for the building services design and the overall building.</p> <p><i>The manufacturer/supplier offers a product which contributes to the achievement of credit points in combination with other products in compliance with Internal Noise criteria.</i></p>	
<u>IEQ-8 Note 1: Volatile Organic Compounds: Tenancy Fitout Items</u>	<i>Points Available</i> 1
<p>Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) emission standards for Tenancy Fitout Items (e.g. workstations, walls/partitions, chairs, tables and storage units). To achieve credit points 95% of the Tenancy Fitout</p>	



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Items used in the fitout must be in accordance with the prescribed standards.

Product is likely to contribute as an individual component, in combination with other suitable components, in achieving a tenancy fitout item which complies with the required VOC emission level standards.

MATERIALS

Mat-3: Recycled Content & Re-used Products and Materials

Points Available

Product is likely to assist in a project obtaining credits as it meets in whole (or in part) by contributing to 2% of the projects contract value for materials containing 20% post consumer recycled content, or reused products/materials, in accordance with prescribed requirements.

1

Green Star™ Industrial Compatibility (see Green Star™ disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-7 Note 1: Internal Noise Levels

Points Available

Product is likely to assist in a project obtaining this credit by maintaining internal noise levels at an appropriate level when appropriately designed in combination with other materials/elements. Two credits point are achieved when 95% of the GLA does not exceed satisfactory ambient internal noise levels in accordance with prescribed requirements.

2

The manufacturer/supplier offers a product which contributes to the achievement of credit points in combination with other products in compliance with Internal Noise criteria.

IEQ-8 Note 1: Volatile Organic Compounds: Wall and Ceiling Coverings

Points Available

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for internal wall and ceiling coverings. To achieve credit points all internal wall and ceiling coverings used in the project must be in accordance with the prescribed standards.

1

Product may eliminate the need for internal wall and ceiling coverings and assist a project in obtaining maximum IEQ-8 credits (internal wall and ceiling coverings) for using no wall and ceiling coverings.

MATERIALS



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Mat-3: Recycled Content & Re-used Products and Materials

Points Available

Product is likely to assist in a project obtaining credits as it meets in whole (or in part) the prescribed requirements for materials containing recycled content, or reused products/materials. Products used for base building construction or integrated fit out must have at least 50% post consumer content. One point is achieved where 2% of the projects contract value represents reused products/materials. One point is achieved where recycled materials represent 1% of the project contract value and two points where recycled content represents 2% of the project contract value.

3

Green Star™ Multi Unit Residential Compatibility (see Green Star™ disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-7 Note 1: Internal Noise Levels

Points Available

Product is likely to assist in a project obtaining this credit by maintaining internal noise levels at an appropriate level when appropriately designed in combination with other materials/elements. One credit point is achieved when building services noise meets satisfactory design sound levels and one point is achieved where building construction exceeds the Building Code of Australia in accordance with prescribed requirements.

2

The manufacturer/supplier offers a product which contributes to the achievement of credit points in combination with other products in compliance with Internal Noise criteria.

IEQ-8 Note 1: Volatile Organic Compounds: Wall and Ceiling Coverings

Points Available

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for internal wall and ceiling coverings. To achieve credit points all internal wall and ceiling coverings used in the project must be in accordance with the prescribed standards.

1

Product may eliminate the need for internal wall and ceiling coverings and assist a project in obtaining maximum IEQ-8 credits (internal wall and ceiling coverings) for using no wall and ceiling coverings.



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MATERIALS

<p><u>Mat-3: Recycled Content & Re-used Products and Materials</u></p> <p>Product is likely to assist in a project obtaining credit point as it contributes towards 1% of the project contract value being made up of reused products and materials or products/materials with post consumer recycled content of at least 20%.</p>	<p><i>Points Available</i></p> <p>1</p>
<p><u>Mat-14 Note 1: Internal Walls (also see material calculator below)</u></p> <p>Product is likely to assist in a project obtaining credits as it meets in whole (or in part) the prescribed requirements for internal wall products. Credit points are achieved when a product has a reduced environmental impact relative to available alternatives as determined by the Mat-14 Internal Walls Calculator. See Calculator results under the ecospecifier Greenrate Pre-Assessment section in relevant product listing.</p> <p><i>Product may contribute as an individual component, in combination with other suitable components, in meeting the requirements of Mat-14: Internal Walls.</i></p>	<p><i>Points Available</i></p> <p>2</p>

Green Star™ Material Calculator for *EchoPanel®* – Woven Image (Sub-Component Adaption*)

<i>Eco Preferred Content</i>	<i>Durability</i>	<i>Environmental Management System (EMS)</i>	<i>EMS ISO 14001 Certified?</i>	<i>EMS – Waste Minimisation</i>	<i>EMS – Energy Consumption</i>	<i>EMS – Emissions</i>	<i>EMS – Materials Minimisation</i>	<i>Product Stewardship</i>	<i>Modularity</i>	<i>Designed for Disassembly</i>
≥20%	≥7 yrs <10 yrs	Yes	No	Yes	Yes	Yes	Yes	Yes	Sub-component	

*Modified by ecospecifier for presentation purposes. Source – Multi Unit Residential Compatibility Rating Tool

If all products used in the internal walls exhibit equivalent or better qualities, the overall assembly may score the maximum 2 credit points

Green Star™ Healthcare Version 1 Compatibility (see Green Star™ disclaimer below)

INDOOR ENVIRONMENT QUALITY

<p><u>IEQ-7 Note 1: Internal Noise Levels</u></p> <p>Product is likely to assist in a project obtaining this credit by directly reducing internal noise levels for 95% of the OFA in accordance with Table 1 of the AS/NZS 2107:2000.</p> <p><i>The manufacturer/supplier offers a product which contributes to the achievement of credit points in combination with other products in compliance with Internal Noise criteria.</i></p>	<p><i>Points Available</i></p> <p>1</p>
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IEQ-8 Note 1 Volatile Organic Compounds: Wall and Ceiling Coverings

Points Available

1

Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for wall and ceiling coverings. To achieve credit points 95% of wall and ceiling coverings used in the project must be in accordance with the prescribed standards.

Product may eliminate the need for wall and ceiling coverings and assist a project in obtaining maximum IEQ-8 credits (wall and ceiling coverings) for using no wall and ceiling coverings.

MATERIALS

Mat-3: Recycled Content & Re-used Products and Materials

Points Available

2

Product is likely to assist in a project obtaining credits as it meets in whole (or in part) the prescribed requirements for materials containing recycled content, or reused products/materials. Products used for base building construction or integrated fit out must have at least 50% post consumer content. One point is achieved where recycled materials represent 1% of the project contract value and two points where recycled content represents 2% of the project contract value.

Mat-14 Note 1: Ceilings, Walls and Partitions (also see sub-component calculator below)

Points Available

2

Product is likely to assist in a project obtaining credit point as it meets the prescribed requirements for ceilings, walls and partitions products. Credit points are achieved when a product has a reduced environmental impact as determined by the Mat-14 Ceilings, Walls and Partitions Calculator. See Calculator results under the **ecospecifier Greenrate Green Building Scheme Pre-Assessment** section in product listing.

*Product may contribute as an individual component, in combination with other suitable components, in achieving Ceilings, Walls and Partitions which comply in whole (or in part) with the prescribed requirements. See Mat-13 Loose Furniture Calculator (Sub-Component Adaption) under the **ecospecifier Greenrate Green Building Scheme Pre-Assessment** section in product listing for clarification on the criteria the product meets*



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Green Star™ Material Calculator for *EchoPanel®*– Woven Image (Sub-Component Adaption*)

Eco Preferred Content	Durability	Environmental Management System (EMS)	EMS ISO 14001 Certified?	EMS – Waste Minimisation	EMS – Energy Consumption	EMS – Emissions	EMS – Materials Minimisation	Product Stewardship	Modularity	Designed for Disassembly
≥20%	≥7 yrs <10 yrs	Yes	No	Yes	Yes	Yes	Yes	Yes	Sub-component	

*Modified by ecospecifier for presentation purposes. Source – Multi Unit Residential Compatibility Rating Tool

If all products used in the walls ceilings and/or ceilings and/or partitions exhibit equivalent or better qualities, the overall assembly may score the maximum 2 credit points

Green Star SA™ Office Version 1 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-12 Note 1: Internal Noise Levels

Product is likely to assist in a project obtaining this credit by directly reducing internal noise levels of Building Services Design or Overall Building. One Credit point is achieved where the Building Services Design meets the prescribed standards. One point is also achieved where the Overall Building meets the prescribed standards.

Product may contribute as an individual component, in combination with other suitable components, in achieving an Internal Noise Level that complies, in whole or in part, with the prescribed requirements.

Points Available

2

Green Star SA™ Retail Pilot Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-7 Note 1: Internal Noise Levels

Product is likely to assist in a project obtaining this credit by directly reducing internal noise levels for 95% of the projects nominated area (GLA and common area) in accordance with levels of Table 1 of SANS 10103:2004 Edition 5.1.

The manufacturer/supplier offers a product which contributes to the achievement of credit points in combination with other products in compliance with Internal Noise criteria.

Points Available

1



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MATERIALS

Mat-3: Recycled Content & Re-used Products and Materials

Points Available

Product is likely to assist in a project obtaining credits as it meets in whole (or in part) the prescribed requirements for materials containing post consumer recycled content for base building construction, or reused products/materials. One Credit Point is achieved when 2% of the contract value is represented by reused products/materials and one and two points are achieved when 5% or 10% of the projects contract value represents post consumer or pre consumer recycled materials.

3

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ASSESSMENT COMPARISON

15mm melamine faced MDF, 15mm lacquered plywood or upholstered metal tiles used in workstation/partition systems.

KEYWORDS / ALTERNATIVES

Polyester, fabric, fabric covering, recycled content, low VOC, walls and partitions, panels.

RELATED TOPICS

Interior Décor, Insulation & Acoustics, Vertical surfaces, Workstation.

RELATED KNOWLEDGE BASE ARTICLES

Eco Priority Guide: Walls

CSI / SPECPACK CATEGORY & NUMBER

12 05 13 Fabrics

09710 Acoustical Wall Finishes

09 72 00 Wall Coverings

NBS CATEGORY & NUMBER

Building and Residential Services

None.

Commercial Engineering & Services

None.

Landscaping

None.



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ASSESSMENT CRITERIA SATISFIED

ENERGY/GREENHOUSE
<ul style="list-style-type: none">• Low Energy in production
HABITAT & LAND
<ul style="list-style-type: none">• Reduced terrestrial impact• Reduced aquatic impact
RESOURCE DEPLETION & EFFICIENCY
<ul style="list-style-type: none">• Post-Industrial recycled content• Post-consumer recycled content• Take-back/ product stewardship• Extended Producer Responsibility (EPR)• Reuse potential• Reduced material use
HUMAN HEALTH
<ul style="list-style-type: none">• Reduced toxics or carcinogens
POLLUTION TO ENVIRONMENT
<ul style="list-style-type: none">• Reduced Life Cycle Toxicity• Reduced Life Cycle Carcinogen• Reduced Smog: Reduction
OTHER VITAL SIGNS
<ul style="list-style-type: none">• International Standards• Ecolabel• Independent Verification• Documented Manufacturer Claim• Environmental info about product• Environmental Policy



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