

Sontext Pty Ltd – Murano Acoustic Panel

Overview

Murano Acoustic Panels are composite 100% recycled cellulose fibre based, tongue and grooved perforated board panels for interior wall or ceiling linings, Suitable for interior commercial and industrial applications.



Product Description

Murano Acoustic Panels are composite cellulose fibre-based board products for interior wall or ceiling linings, engineered (slotted, grooved or perforated) to provide acoustic absorption, usually in accordance with design specifications. The panels are also tongue and grooved on all edges.

The board surfaces are supplied raw. They are then finished (lacquered, veneered, laminated, left bare, etc) according to project interior design requirements. The baseboard used to fabricate Murano products is made from recycled wheat straw (rather than wood fibre), and bound with an MDI resin.

The MDI adhesive is free of formaldehyde and acetaldehyde and other harmful volatile organic compounds.

General properties of straw fibre-based panels eclipse those of conventional wood fibre-based products. The straw fibres are finer than wood chips and shavings, allowing a much higher accumulation of cellulose fibre layers resulting in better compression, bending and anti-creep properties. The natural ingredients of straw, such as lignin, cellulose and pentosan raise the strength and hardness, reduce water swelling and improve the level of flame-retardancy of the panel. Water resistance is also higher due to the natural wax content of straw.

PRODUCT SPECIFICATIONS

Options	Available sizes: 1200x1200mm 1200 x 600 mm 2400 x 1200 mm Other sizes can be manufactured on request Edge treatment can be engineered on demand (e.g. suspended ceiling grid, concealed edges, shadow line, battened wall etc.). NOTE: MDF Formaldehyde E1 rated, FSC certified boards are also available in similar formats.
Colours	Finished or plain
Warranty	None



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Expected Life	As good as or better than conventional particleboard or MDF panel		
Indicative Costs	Price on Application		
Purchase Options	Contact Supplier		
Constituents	Material	Weight per percentage	Actual Weight
	Straw (Cellulose Fibre)	90%	10 kg/m ²
	MDI-Methyl Di Isocyanurate (Binder/Adhesive)	10%	1 kg/m ²
Technical Specifications	Contact supplier for Comparative Acoustic Performance		
National & International Standards	China Environmental Labelling Certification applications California Air Resources Board ACTM Approval Building Code of Australia Fire Performance Group 1 Classification to AS 3837		
Country of Origin	Disclosed		
Projects	UAE University, Abu Dhabi (with FSC certified, E1 baseboard) Various school projects in Australia		
Preparation	<i>Murano Panels</i> can be fixed conventionally (i.e. screwed or nailed to structural members), but the product also has a unique clip fixing system that does not require the use of mechanical fasteners.		

ECOSPECIFIER LIFE-CYCLE ASSESSMENT

INTEGRATED DESIGN AND POLICY ISSUES

Straw-based products are based on a waste by-product of agriculture and are a rapidly renewable recycled resource, have low embodied energy and sequester carbon (until decomposition).

Low or zero formaldehyde emission products assist keep high levels of indoor air quality (IAQ) which is a key driver of productivity and increased health outcomes. Even small changes in productivity can deliver high levels of commercial benefit for offices and other workplaces for organisations and help to promote the adoption of green building strategies within the broader market.



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HUMAN HEALTH

Health

Product does not have adverse effect on human health.

Comfort

Not applicable

Indoor Environment Quality

Murano Acoustics™ has zero formaldehyde emission.

Electromagnetic Radiation

Not Applicable

Safety

Not Applicable

Accessibility

Not Applicable



ECOLOGICAL QUALITY

Terrestrial Pollution

Emissions – Any Chemical emissions e.g. fertilisers, released into the soil during the wheat growing are not attributed to the straw.

Physical – The impacts are minimised as the Murano material is made of waste from wheat production (straw).

Aquatic Pollution

Emissions – Impacts from wheat growing practises include water contamination from soil (silt, nutrients, etc.) and chemical runoff (pesticides, fuel, etc.). These impacts are minimised due to the recycling of the straw.

Physical – Not known

Atmosphere Pollution

Greenhouse (GHG) – *Murano Acoustics™* panel is a straw-based composite material in which straw is bonded under heat and pressure with a binder to create the particleboard substrate. Wheat straw is often burned in the paddock releasing significant greenhouse emissions and the recycling of the straw locks these GHGs into the board as a carbon sink while the board is intact.

Greenhouse intensity

- *Murano Acoustics™* – approx 3.1 kgCO₂e / m²*

* Polyurethane Greenhouse intensity figures used as a proxy. Figures sourced from Alcorn, NZ.



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Transport intensity – Product is palletised, shipped within China to fabricators, then containerised for shipment internationally. GHG intensities for shipping product are shown below provided that shipping port from country of origin Shanghai and destination port is Melbourne.

Product weight	Distance to destination port	Energy Intensity - Container Shipping	GHG Intensity - Container Shipping
11kg / m ²	9 503km	0.000135MJ / kg.km	0.000011kgCO _{2e} / kg.km

- GHG Intensity for Container Shipping of *product* - 1.15 kgCO_{2e} / m²

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 is re-usable – depending on the fixings.

Toxics and Pollutants – Gaseous emissions include VOCs, sulphur compounds, nitrogen oxides, carbon monoxide and carbon dioxide. However, in modern well managed factories the majority of emissions are captured through control measures. Finished products emit limited airborne pollutants.

Ozone Depletion – Not applicable

Urban Heat Island Effects – Not applicable

Noise – When slotted or perforated, Murano Board is an effective acoustic absorption and reverberation reduction interior lining material, and is available standard and custom acoustic design options depending on project needs and engineering design. Results for other patterns are available on request, including original test reports.



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Biodiversity

Biodiversity impacts are minimised as the product is 100% recycled agrifibre waste. Furthermore it avoids use of woodfibre- potentially a biodiversity damaging fibre source.

RESOURCE DEPLETION

Resource Efficiency

Straw derives from a rapidly renewable resource that is often wasted and so in recovering the resource for high grade construction product, it is a high order use of the resource.

Embodied Fossil Fuel Energy

- *Murano Acoustics™* – approx 74.5 MJ / m²*

*Polyurethane Greenhouse intensity figures used as a proxy. Figures sourced from Alcorn, NZ.

Transport intensity – Product is palletised, shipped to fabricators, then containerised for shipment internationally. GHG intensities for shipping product are shown below assuming that shipping port from country of origin Shanghai and destination port is Melbourne.

Energy Intensity for Container Shipping of *product* – 14.11 MJ / m²

Embodied Water

Information not available.

Durability

Information not available.

Reusability

Yes, see Design for Disassembly section.

Repairability

Lacquer or bare panel surface damage can be sanded and repaired.

Design for Dematerialisation

Not applicable.

Design for Disassembly

Product can be disassembled if the proprietary fixing system is used (see above). Panels can also be removed/replaced if used in suspended ceiling grid applications.

Recyclability

Proprietary fixing system components are recyclable. In such cases the product can be demounted and reinstalled elsewhere.



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Maintenance

Typical, as for PB and MDF products. Maintenance will depend on finish provided to material in place; otherwise, no or low maintenance required.

Product Takeback Scheme

No

Extended Producer Responsibility

No

CORPORATE AND SOCIAL SUSTAINABILITY

Audits and Environmental Reporting

No

Convictions

No

Environmental Policy

No

Social Enhancement Programs

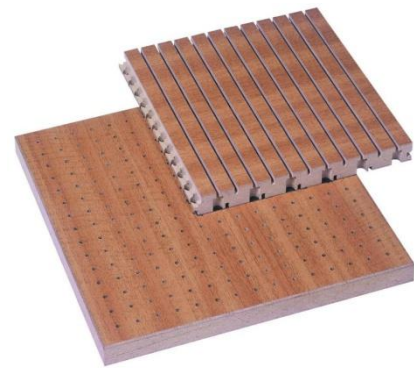
Unknown

Technology Transfer Programs

Sontext has close co-operation with Chinese suppliers and Middle East distributors on all aspects of product performance, acoustic product training, installation, procedures etc.

Environmental Management Systems (EMS)

No



ECOSPECIFIER ISSUES OF CONCERN / RED LIGHTS

Issues of Concern

The product contains No formaldehyde resins.

ECOSPECIFIER GREENRATE GREEN BUILDING SCHEME PRE-ASSESSMENT

Estidama Pearls Design System for New Buildings

LIVEABLE BUILDINGS

LB-r3: Formaldehyde Reduction

Points Available



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Product may assist in a project obtaining this requirement by eliminating the human health risks associated with formaldehyde in building materials and products.	Requirement
<u>LB-34: 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>Points Available</i> 1

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 constitute 2%, 2 credit points if 4% of the total materials cost.	<i>Points Available</i> 2
<u>SM-11: Modular Materials</u> Product may assist in a project obtaining this credit by using modular design. Credit point is awarded where 95% of the carpeted occupied area uses modular carpets with a minimum of 30% post-consumer recycled content or are readily recyclable.	<i>Points Available</i> 1
<u>SM-12: Rapidly Renewable Materials</u> Product may assist in a project obtaining this credit for increasing the use of fast growing materials instead of slow growing materials or finite resources. Credit point is awarded where rapidly renewable materials are a significant constituent of the walls, ceilings, joinery, or finishes determined in EPDS.	<i>Points Available</i> 1



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MATERIALS AND RESOURCES

<p><u>MR Credit 3: Materials Reuse</u></p> <p>To obtain this credit the project must reuse building materials and products to reduce demand for virgin materials and reduce waste. Credit points are achieved based the percentage (5%, 10%) of salvaged, refurbished or reused materials (by cost) of the total value of materials used in the project for materials permanently installed in the project.</p>	<p><i>Points Available</i></p> <p>2</p>
<p><u>MR Credit 4.1: Recycled Content</u></p> <p>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.</p>	<p><i>Points Available</i></p> <p>2</p>
<p><u>MR Credit 6: Rapidly Renewable Materials</u></p> <p>Product is likely to assist in a project obtaining this credit. The project must incorporate rapidly renewable materials and products (i.e. typically harvested within a 10-year or shorter cycle) of at least 2.5% based on the total value (cost) of the materials used in the project.</p>	<p><i>Points Available</i></p> <p>1</p>

INDOOR ENVIRONMENT QUALITY

<p><u>IEQ Credit 4.4: Low Emitting Materials: Composite Wood & Agrifiber Products</u></p> <p>Product is likely to assist in a project obtaining this credit as it contains no added urea-formaldehyde. This credit applies to composite wood and agrifiber products as well as laminating adhesives.</p>	<p><i>Points Available</i></p> <p>1</p>
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BREEAM Issue 3

HEALTH & WELLBEING

<u>Hea 8 – Indoor air quality</u> Product is likely to assist in a project obtaining credits as it increases fresh air rates to dilute pollutants, assisting compliance with the prescribed ventilation rates.	<i>Points Available</i> 1
<u>Hea 13 – Acoustic performance</u> 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.	<i>Points Available</i> 2

MATERIALS

<u>Mat 5 – Responsible Sourcing of Materials</u> Product is likely to assist in a project obtaining credits as it contributes to the responsible sourcing of materials for major building elements. Credit points are achieved where 80% of assessed materials for building elements (roof, frame, external walls, ground and upper floors, foundations/substructure, doors and windows) are responsibly sourced. 100% of timber used for these elements must have 3 rd party chain of custody certification.	<i>Points Available</i> 4
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BCA Green Mark Landed Houses

ENVIRONMENTAL PROTECTION

<u>3-1(c)(ii) Sustainable Products: Recycled Content</u> Product is likely to assist in a project obtaining credit	<i>Points Available</i> 2
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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).

3-1(c)(iii) Sustainable Products: Renewable Materials

Product is likely to assist in a project obtaining credit point as a product that is made of rapidly renewable material such as bamboo, cork, etc.

Points Available

1

Green Building Index Non-Residential New Construction v1

INDOOR ENVIRONMENT QUALITY

EQ4 Indoor Air Pollutants: Formaldehyde

Product is likely to assist in a project obtaining credit point as it contains no added urea formaldehyde. Credit point awarded when all composite wood and agrifiber products, onsite and shop applied adhesives, insulation foam, and draperies have no added urea formaldehyde.

Points Available

1

EQ13 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.

Points Available

1

MATERIALS & RESOURCES

MR1 Materials Reuse and Selection

Product may assist a project obtaining credit points as a salvaged, refurbished or reused material. The materials are to be assessed for eco preferred content, durability, the manufacturer's environmental management system and whether the product is modular and/or designed for disassembly. Number of points awarded is determined by the percentage of reused products/materials of the project's total material cost value, with 0.5 points awarded for 1%, and 0.25 awarded for each additional 0.5%, up to a maximum of 2 points.

Points Available

2

MR2 Recycled Content Materials

Product is likely to assist in a project obtaining credit

Points Available



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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.

2

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National Australian Built Environment Rating System (NABERS) Compatibility

Product may assist in the achievement of IEQ 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

IEQ-10: 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.

Points Available

1

IEQ-12: Formaldehyde Minimisation

Product is likely to assist in a project obtaining credits as it meets the prescribed standards for formaldehyde emissions for composite wood products. Products with formaldehyde emission of less than or equal to E1 are compliant with this credit. To achieve credit points all composite wood products used in the project must be in accordance with these requirements.

Points Available

2



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MATERIALS & RESOURCES

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™ Mat-3 Walls and Partitions Calculator for Sontext Murano Acoustics*

Eco Preferred Content	Durability	Environmental Management System (EMS)	EMS ISO 14001 Certified ?	Product Stewardship	Modularity	Designed for Disassembly	Credit Points Achieved
Less than 5%	Equal or greater than 10 years	No	No	No	No	Between 50 and 90%	1

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

MAT-8: Ceilings

Product is likely to assist in a project obtaining credit point as it facilitates the disassembly and re-installation of tiles in accordance to the prescribed requirements.

Points Available

1

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

INDOOR ENVIRONMENT QUALITY

IEQ-12: 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

Points Available

2



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achieved where ambient internal noise levels and reverberation times meet the prescribed requirements.

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

INDOOR ENVIRONMENT QUALITY

IEQ-14: Formaldehyde Minimisation

Points Available

1

Product is likely to assist in a project obtaining credits as it meets the prescribed standards for formaldehyde emissions for engineered wood products. Products with formaldehyde emissions of less than or equal to E1 are compliant with this credit. To achieve the credit point all engineered wood products used in the project must be in accordance with these requirements.

MATERIALS

Mat-3: Reused Materials

Points Available

1

Product is likely to assist in a project obtaining credits where it contributes to 2% of the projects contract value being reused products/materials in accordance with prescribed requirements.

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

INDOOR ENVIRONMENT QUALITY

IEQ-7: Internal Noise Levels

Points Available

2

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.

IEQ-9: Formaldehyde Minimisation

Points Available

1

Product is likely to assist in a project obtaining credits as it meets the prescribed standards for formaldehyde emissions for engineered wood products (including exposed and concealed applications). Products with no added formaldehyde or formaldehyde emissions of less than or equal to E1 are compliant with this credit. To achieve the credit point all engineered wood products



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used in the project must be in accordance with these requirements.

MATERIALS

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

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.

Points Available

1

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

INDOOR ENVIRONMENT QUALITY

IEQ-7: Internal Noise Levels

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.

Points Available

2

IEQ-9: Formaldehyde Minimisation

Product is likely to assist in a project obtaining credits as it meets the prescribed standards for formaldehyde emissions for engineered wood products. Products with no added formaldehyde or formaldehyde emissions of less than or equal to E1 are compliant with this credit. To achieve the credit point all engineered wood products used in the project must be in accordance with these requirements.

Points Available

1

MATERIALS

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

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%

Points Available

3



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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.

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

INDOOR ENVIRONMENT QUALITY

<p><u>IEQ-7: Internal Noise Levels</u></p> <p>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.</p>	<p><i>Points Available</i></p> <p>2</p>
<p><u>IEQ-9: Formaldehyde Minimisation</u></p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed standards for formaldehyde emissions for engineered wood products (including expose and concealed applications). Products with formaldehyde emission of less than or equal to EO are compliant with this credit. To achieve credit points all engineered wood products used in the project must be in accordance with these requirements.</p>	<p><i>Points Available</i></p> <p>1</p>

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>3</p>
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Green Star™ Healthcare Version 1 Compatibility (see Green Star™ disclaimer below)



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INDOOR ENVIRONMENT QUALITY

<p><u>IEQ-7: 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>Points Available</i></p> <p>1</p>
<p><u>IEQ-9: Formaldehyde Minimisation</u></p> <p>Product is likely to assist in a project obtaining credits as it meets the prescribed standards for formaldehyde emissions for engineered wood products. Products with formaldehyde emission of less than or equal to E1 or contain no are compliant with this credit. To achieve credit points all composite wood products used in the project must be in accordance with these prescribed requirements.</p>	<p><i>Points Available</i></p> <p>1</p>

MATERIALS

<p><u>Mat-3: Recycled Content & Re-used Products and Materials</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 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.</p>	<p><i>Points Available</i></p> <p>2</p>
<p><u>Mat-14 Note 1: Ceilings, Walls and Partitions</u> (also see sub-component calculator below)</p> <p>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.</p> <p><i>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</i></p>	<p><i>Points Available</i></p> <p>2</p>



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Green Star™ Mat-3 Walls and Partitions Calculator for Sontext Murano Acoustics*

Environmental Management System (EMS)	EMS ISO 14001 Certified?	Product Stewardship	Modularity	Designed for Disassembly	Credit Points Achieved
No	No	No	No	Between 50 and 90%	1

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

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ASSESSMENT COMPARISON

Conventional decorated particleboard and MDF, plywood, PET, foam, bagasse, cork, polyester, and other acoustic panels.

KEYWORDS / ALTERNATIVES

Substrate, laminate, composite, acoustic, building panel, reverberation,

RELATED TOPICS

Adhesives, Tapes & Fasteners; Interiors & Fitouts; Paints & Surface Treatments

RELATED KNOWLEDGE BASE ARTICLES

Eco Priority Guide: Adhesives Tapes & Fasteners

Eco Priority Guide: Insulation

Eco Priority Guide: Walls

CSI / SPECPACK CATEGORY & NUMBER

None

NBS CATEGORY & NUMBER

Building and Residential Services

B14 Prefabricated panelled constructions



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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• Abundant• Reuse potential• Least Processed Materials• Agricultural By-products• Rapidly Renewable Product• Reduced material use
HUMAN HEALTH
<ul style="list-style-type: none">• Low/Reduced Offgassing• 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



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