



Woven Image®

EchoPanel®



EchoPanel® & EchoPanel®27



295 (12mm)



551 (12mm)



579 (12mm)



909 (12mm & 7mm)



294 (12mm & 7mm)



612 (12mm & 7mm)



361 (12mm)



300 (12mm)



442 (12mm & 7mm)



542 (12mm & 7mm)



560 (12mm & 7mm)



500 (12mm & 7mm)

EchoPanel®

DESIGNED FOR DEMATERIALISATION

EchoPanel® is a landmark product from Woven Image that demonstrates our commitment to environmental performance and sustainable interiors.

EchoPanel® reflects eco-innovation in the truest sense. It is highly recyclable and also features approximately 60% post consumer waste source from recycled PET bottles.

Not only is it certified by Good Environmental Choice Australia, EchoPanel® can also secure maximum credits as an 'Eco Preferred Content' material under the Green Star rating tool administered by the Green Building Council of Australia.

EchoPanel® has been under development in a number of product categories for many years. An effective application is as a replacement for textile covered tiles in workstation systems and as lighter, more flexible and highly recyclable wall panelling and partitioning system.

EchoPanel® is the outcome of long-term research and development, which commenced in 1997 between Woven Image and the Centre for Design at RMIT. Several opportunities for the productive use of PET and recycled PET in furnishing fabrics were identified and reviewed as part of RMIT's EcoReDesign™ program. Additional development work by Woven Image resulted in the successful launch of Echo™Screen fabric in 1999.

Dematerialisation represents the latest thinking in EcoDesign and the sustainable application of products, materials and services. It is also a concept that is in harmony with Product Stewardship and waste avoidance. EchoPanel® is centred on the concept of dematerialisation.

WHAT IS ECHOPANEL®?

- EchoPanel® is produced from recycled and recyclable PET (approximately 60% post consumer waste sourced from recycled PET).
- The base fibre is certified to Oeko-tex Standard 100 for meeting human-ecological requirements. Certified by TESTex Zurich, Swiss Textile Institute.
- Enables dematerialisation through the elimination of combined fabric and wood panel screens, partitions, tiles and other substrates.
- Strong focus on waste avoidance, resource recovery and product stewardship
- Extreme light weight allows diverse range of applications without the need for structural support and/or substrates
- EchoPanel® is an enabling material for designers, furniture manufacturers and end-users.
- EchoPanel® is manufactured in a way that no waste is created. Source fibre that is not transformed into useful product is collected and re-used i.e. postindustrial recycling.
- EchoPanel® supply chain complies with relevant environmental standards and is an example of how Woven Image is "greening" the supply chain. This is further reflected in our Sustainable Procurement Policy which also addresses Design for Sustainability and EcoDesign principles.

KEY BENEFITS

Reduced costs in labour and materials
Workstation tile manufacturing processes that utilise EchoPanel® are uncomplicated and utilise fewer materials compared to traditional screen systems.

Instead of upholstering a metal tile or a piece of MDF board, EchoPanel® is the finished surface removing the cost of fabric, foam and adhesive.

The resulting system not only uses less material in its production but is also less labour intensive with reduced materials handling.

Less weight

At 2400 grams per square metre, EchoPanel® is about one third of the weight of MDF board or plaster board in equivalent 12mm thickness.

Flexible design

It's a surface in itself with significant design potential to enable designers and workstation manufacturers to redefine, reinvent and reconfigure the office partition.

Environmentally Compatible

- EchoPanel® is produced from recycled and recyclable PET (approximately 60% post consumer waste sourced from recycled PET bottles).
- Woven Image will recover and recycle (uncontaminated) EchoPanel® at end of life.
- EchoPanel® is certified to carry the Good Environmental Choice Australia label.
- EchoPanel® can secure maximum credits under the Eco Preferred Content category in Green Star rating tools as administered by the Green Building Council of Australia.
- Woven Image has an Environmental Management System in place to guide and facilitate ongoing environmental monitoring, review and improvement.
- Woven Image has implemented a Carbon Management and Reduction Plan to proactively reduce climate change impacts resulting from its products and services.

ENVIRONMENTAL THINKING: CRADLE TO CRADLE

EchoPanel® is made from approximately 60% post consumer waste sourced from recycled PET bottles.

"Recycling is beneficial because it reduces the need to extract virgin raw materials, as well as the amount of energy and water used in manufacturing a product. According to a study by the NSW Department of Environment and Climate Change, the benefits of recycling can be broadly grouped into three categories of reducing greenhouse gas emissions, and conserving energy and water."

Source: NSW Department of Environment and Climate Change

"Recycling pet bottles saves 84% of the energy it takes to make pet bottles from raw materials."

Source: Victorian Department of Sustainability and Environment.

There are no harmful effects in the colouration of EchoPanel®. The fibre is coloured while it is still a solution. All the dyes used stay in the solution and effectively become fibre so there is no waste. The source fibre used in EchoPanel® fulfils the requirements of existing European legislation regarding the use of Azo-dyes.

A workstation utilising EchoPanel® is much easier to disassemble and separate into the appropriate recycling streams, and therefore a significant environmental advantage compared to fabric-covered substrates which are often contaminated with adhesives and residual fabrics.

At present, a significant volume of end-of-life partitions, screens and workstations end up in landfill. This is primarily due to the difficulty of recycling reconstituted wood panel products covered with adhesives, fabrics and fasteners that are not compatible with recycling processes.

PRODUCER RESPONSIBILITY AND PRODUCT STEWARDSHIP

The sustainable application of products and materials is a key priority for Woven Image. We not only strive to create low impact products, we have also developed systems and services to ensure our products do not contribute to future environmental problems when they are discarded or become obsolete.

Woven Image will strive to retain responsibility for EchoPanel® wherever practical and within our scope of business activity and control. Woven Image will guarantee to coordinate the recovery, reuse or recycling of uncontaminated EchoPanel® from disassembled workstations and partitions. Woven Image will also co-ordinate the collection and recycling of factory offcuts.

Woven Image is committed to the principle of 'extended producer responsibility' which demands that as a sustainable company, we will support the customer to manage environmental impacts and issues beyond the point of sale and warranty. It is very much about effective product life cycle management that benefits the environment, tenants, facility managers, asset owners and furniture producers.

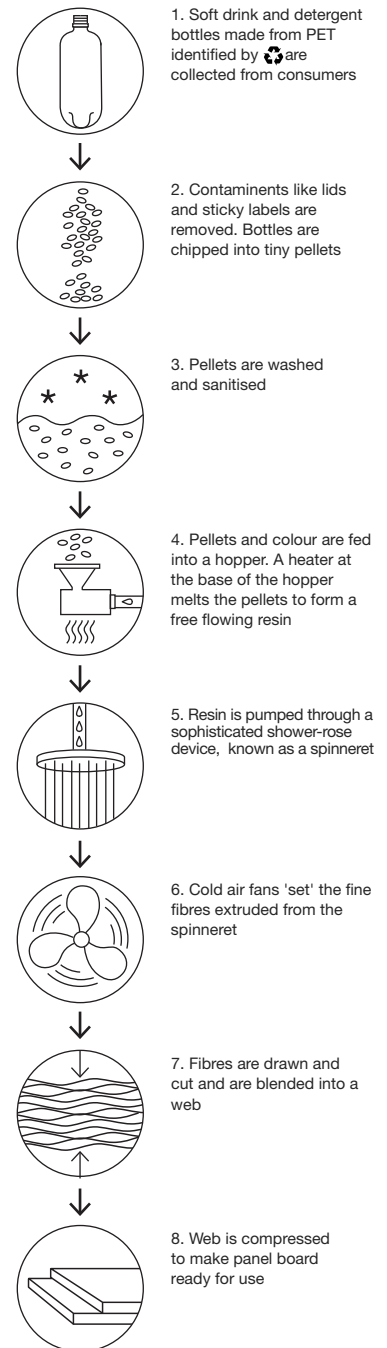
COLLABORATION WITH DESIGNERS AND WORKSTATION MANUFACTURERS

EchoPanel® provides opportunities for designers and furniture manufacturers to think and act laterally and responsibly.

As an uncomplicated, highly flexible product it encourages designers to explore the smart material possibilities of waste avoidance and dematerialisation.

Whether used as replacement for textile covered tiles in workstation systems, or as a lighter, more flexible and functional partitioning system, EchoPanel® allows greater flexibility to achieve environmentally improved outcomes and create productive and sustainable interiors.

FOR EVERY 1000 SHEETS OF RECYCLED CONTENT ECHOPANEL® MANUFACTURED, APPROXIMATELY 4.2 TONNES OF POST-CONSUMER WASTE PET IS DIVERTED FROM LANDFILL. THIS CONTRIBUTES TO HIGHER LEVELS OF MATERIALS EFFICIENCY AS WELL AS ENERGY SAVINGS IN PRODUCING ECHOPANEL® WHICH LEADS TO CARBON REDUCTION.





Mitchell Laminates

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EchoPanel® & EchoPanel®27

Specifications	12mm
Product Name	EchoPanel®
Designer	Woven Image
Origin	Made in Australia
Colours	12
Composition	295, 551, 579, 909 100% PET 500, 294, 300, 361, 442, 542, 560, 612 100% PET (60% recycled)
Panel Dimensions	2400mm (+/- 5mm) x 1200mm (+/- 10mm)
Weight	2400g/m ² +/- 10%
Thickness	12mm +/- 7%

Performance


Colour Fastness to Light	ISO 105-B02-1994 Rating: 6-7 AS 2001.4.21-1970 Rating: 6-7
Fire Test	AS/NZS 3837 Classification: Group 3
Care	See website for details
Sound Absorption	AS ISO 354 – 2006 NRC Value: 0.35 (with no air gap) NRC Value: 0.55 (with 20mm air gap) NRC Value: 0.75 (with 50mm air gap)
VOC Emissions	ASTM D5116 Rate: < 0.02 mg/m ² /hr (7 days)
Environmental	 See website for details

Present stock colour may vary from this brochure due to fibre mix and lay up which is an inherent feature of this product.

Woven Image reserves the right to update and modify this brochure as new information and data become available.

Specifications	7mm
Product Name	EchoPanel®27
Designer	Woven Image
Origin	Made in Australia
Colours	7
Composition	909 100% PET 294, 560, 612, 442, 500, 542 100% PET (60% recycled)
Panel Dimensions	2700mm (+/- 10mm) x 1210mm (+/- 5mm)
Weight	1400g/m ² +/- 10%
Thickness	7mm +/- 7%

Performance

Colour Fastness to Light	ISO 105-B02-1994 Rating: 6-7 AS 2001.4.21-1970 Rating: 6-7
Fire Test	AS/NZS 3837 Classification: Group 3
Care	See website for details
Sound Absorption	AS ISO 354 – 2006 NRC Value: 0.25 (with no air gap) NRC Value: 0.45 (with 20mm air gap) NRC Value: 0.70 (with 50mm air gap)
VOC Emissions	ASTM D5116 Rate: < 0.02 mg/m ² /hr (7 days)
Environmental	 See website for details

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