

# Environmental Product Declaration



INSTYLE



**CERTIFIED ENVIRONMENTAL PRODUCT DECLARATION**

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Life Cycle Assessment and Environmental Product Declarations of acoustic products supplied by Instyle.

**In accordance with ISO 14025 for:**

- Ecoustic Felt
- Ecoustic Panel 8mm
- Ecoustic Panel 13.5mm
- Ecoustic Panel 25mm
- Ecoustic Panel 50mm
- Ecoustic Panel 25mm USA
- Ecoustic Panel 50mm USA
- Ecoustic Curve
- Ecoustic Miniflex
- Ecoustic Ceiling Flats 13.5mm
- Ecoustic Ceiling Flats 25mm
- Ecoustic Screen



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## Introduction

Instyle is a leading Australian supplier of sophisticated, high quality textiles, leathers and acoustic solutions for interiors, that are represented throughout Australia and internationally.

Instyle is an ethical and environmentally responsible company with a holistic approach to sustainability. Since beginning its journey in 2002, Instyle has established itself as an industry leader in sustainability.

Instyle's manufacturing partner is an Australian owned and operated business with over 20 years' experience manufacturing environmentally sustainable, high-quality polyester fibre products for various industries worldwide. The manufacturer has expanded its capabilities to produce high performance products engineered to control noise in buildings.

Instyle's acoustic product portfolio has been specifically designed to provide acoustic solutions for a variety of interior applications. Our products have excelled in some of the most challenging acoustic applications including recording studios, concert halls, auditoriums, theatres, convention centres and flexible learning spaces. Instyle and the manufacturer are committed to sustainable practices throughout its business including manufacturing.

Edge Environment was commissioned by the manufacturer to conduct a life cycle assessment (LCA) study of its product range.

Studies were conducted for product varieties, which differ primarily in raw material polyethylene terephthalate fibre blends, density and manufacture method.



## Manufacturing

The manufacturer produces a range of densities, colours and finishes for a variety of applications including wall and ceiling panels, screens and room dividers, hanging baffles and suspended clouds. Recognised by the Green Building Council of Australia (GBCA) and Green Building Council of New Zealand (NZGBC), Instyle's products can contribute to points available in the rating tools that assess the environmental sustainability of building projects at the design, construction and as built phases: Green Star® – Design and As Built, and the interior fit-out phase: Green Star® – Interiors.

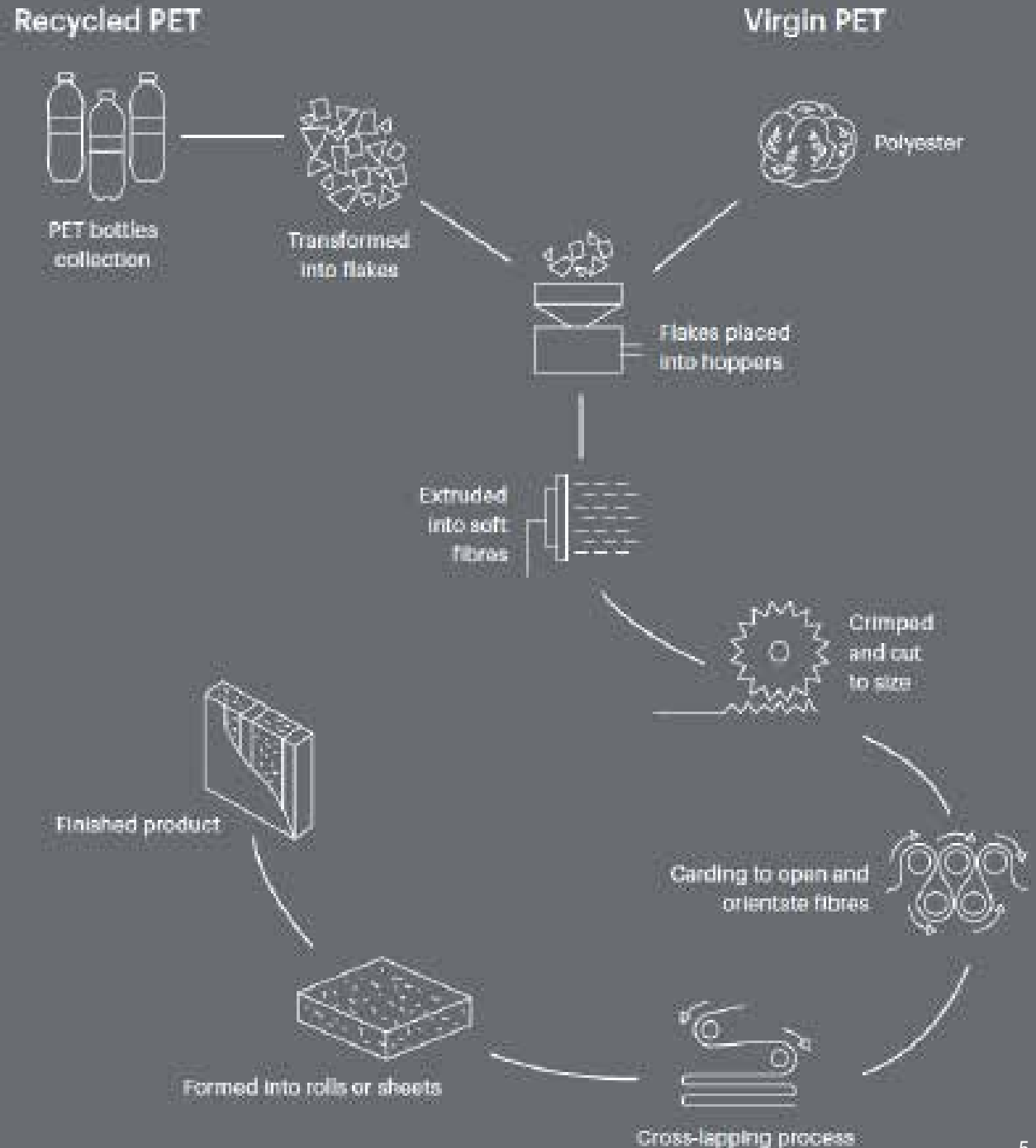
Instyle products in this EPD achieves Global Green Tag Level A certification which provides credits towards Green Star rated buildings.

A select number of Instyle products are made using recycled PET fibres sourced from recycled bottles.

The image adjacent shows the manufacturing process of these products.

## Product Stewardship Program

We understand the environmental lifecycle of our products. This lies at the heart of our sustainability goals and is now a growing consideration in product decision-making. Our Product Stewardship Program allows our customers to return clean off cuts and any uncontaminated waste to us for recycling. We also educate our contractors in the high reusability potential on Instyle products.





## Project Methodology

**The methodology and report format has been developed to comply with:**

- ISO 14040:2006 and ISO 14044:2006 which describe the principles, framework, requirements and provides guidelines for life cycle assessment (LCA) (ISO, 2006; ISO, 2006).
- ISO 14025:2006 Environmental labels and declarations  
-- Type III environmental declarations -- Principles and procedures, which establishes the principles and specifies the procedures for developing Type III environmental declaration programmes and Type III environmental declarations (ISO, 2006).
- EN 15804, Sustainability of construction works — Environmental product declarations which provides core product category rules (PCR) for Type III environmental product declarations (EPD) for any construction product and construction service (European Standards, 2012).
- PCR for Construction Products and Construction Services (CPC 54, Version 2.2, dated 2017-05-30) which serves as the main implementation of EN 15804 (EPD International, 2017).
- Sub-PCR for thermal insulation products (EPD International, 2018) which refers to EN 16783:2017 Thermal insulation Products – Product category rules (PCR) for factory made and in-situ formed products for preparing environmental product declarations which complements PCR 2012:01 with additional rules and methodological instructions (European Standards, 2017).

The following steps provide an overview of the process followed in this study.

## Instyle Products

This EPD covers select Instyle acoustic products (Table 1). As this EPD provides analyses per 1 kg of product.

## Content Declaration

Content declaration, including information about content of recycled materials, up to 99%, as per table below:

Substance	Content (%)	CAS-Number
Polyethylene Terephthalate	9%	25038-59-9



**Table 1** - Range of products by Instyle included in this study.

Product type	Product range	Product names
Decorative acoustic	Ecoustic	Ecoustic Felt Ecoustic Panel 8mm Ecoustic Panel 13.5mm Ecoustic Panel 25mm Ecoustic Panel 50mm Ecoustic Panel 25mm USA Ecoustic Panel 50mm USA Ecoustic Curve Ecoustic Miniflex Ecoustic Ceiling Flats 13.5mm Ecoustic Ceiling Flats 25mm Ecoustic Screen

# Product Properties

Below allows customers to quantify the impacts of a specific product per meter squared, using the density conversions provided.

**Table 2** - Product properties

Product name	Thickness (mm)	Mass (kg/m <sup>2</sup> )	Density (kg/m <sup>3</sup> )	Colour/s	R-value (kWh/m <sup>2</sup> )	NRC/STC
<b>Decorative acoustic</b>						
Ecoustic Felt	1	0.35	350	Colour	NA	0.04
Ecoustic Miniflex	8	2.04	255	Black core/Colour Face	NA	NA
Ecoustic Curve	10-12	1.6	133.3	White core/colour face	NA	0.4
Ecoustic Panel 8mm Black	8	1.62	202.5	Black core/Colour Face	NA	0.4
Ecoustic Panel 8mm White	8	1.62	202.5	White core/Colour Face	NA	0.4
Ecoustic Panel 13.5mm Black	13.5	2.82	208.9	Black core/Colour Face	NA	0.4
Ecoustic Panel 13.5mm White	13.5	2.82	208.9	White core/Colour Face	NA	0.4
Ecoustic Panel 25mm Black	25	1.92	76.8	Black core/Colour Face	NA	0.4
Ecoustic Panel 25mm White	25	1.92	76.8	White core/Colour Face	NA	0.4
Ecoustic Panel 50mm Black	50	3.42	68.4	Black core/Colour Face	NA	0.4
Ecoustic Panel 50mm White	50	3.42	68.4	White core/Colour Face	NA	0.4
Ecoustic Panel 25mm USA White	25	2.79	111.9	White core/Colour Face	NA	0.85 - 1.00
Ecoustic Panel 50mm USA White	50	4.29	85.8	White core/Colour Face	NA	0.85 - 1.00
Ecoustic Screen 12mm Black	12	2.84	236.7	Black core/Colour Face	NA	0.5
Ecoustic Screen 12mm White	12	2.84	236.7	White core/Colour Face	NA	0.5
Ecoustic Ceiling Flats 13.5mm	13.5	2.83	217.7	White core/Colour Face	NA	0.8
Ecoustic Ceiling Flats 25mm	25	2.8	112	White core/Colour Face	NA	0.9



# Product Life Cycle Overview

The life cycle of a building product is divided into three process modules according to the General Program Instructions (GPI) of the Australasian EPD Programme (AEPDP, 2015) and four information modules according to ISO 21930 and EN 15804. The scope of the EPD is “cradle to gate” as defined by EN 15804 – the specific system boundary is shown in Figure 1.

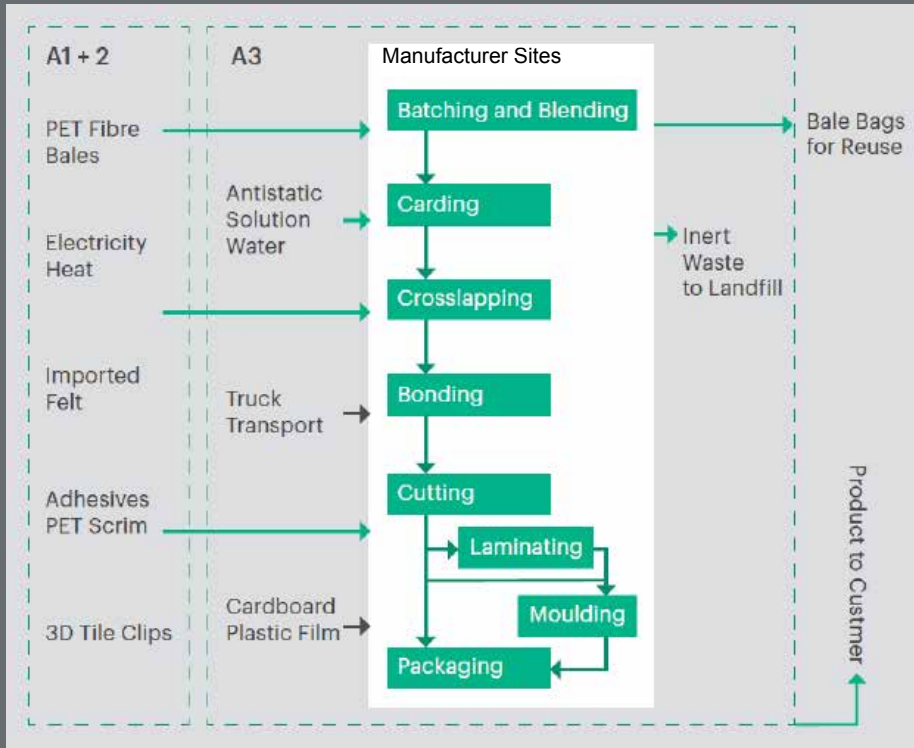


Figure 1 - Life cycle diagram of Instyle products

The intent of the EPD is to cover all significant environmental impact over the product lifecycle. As the scope of the EPD is “cradle to gate” no downstream modules are included. Below shows the modules which have been assessed in the EPD. Please see further sections for additional information on life cycle stage.

Product Stage	Construction Stage		Use Stage					End of Life Stage				Benefits and Loads for the next Product system				
	Raw Material Supply	Transport	Construction/Installation Process	Use	Maintenance incl. Transport	Repair incl. Transport	Replacement incl. Transport	Refurbishment incl. Transport	Operational Energy Use	Operational Water Use	De-Construction and Demolition		Transport	Re-Use Recycling	Final Disposal	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

Figure 2 - System boundary and scope of the study. X = module included in EPD. MND = module not declared (does not indicate zero impact result).

## Life Cycle Assessment Methodology

This section includes the main details of the LCA study as well as assumptions and methods of the assessment. A summary of the life cycle assessment parameters is given in Table 4.

**Table 3** - Details of the LCA

Declared Unit	1 kg of Instyle acoustic product
Geographical coverage	Australia
LCA scope	Cradle to gate



## Declared Unit

The declared unit is 1 kg of product, and the EPD-type is cradle-to-gate as described in Table 5 and Figure 1. The declared unit in accordance to PCR for Construction products is adopted. The declared unit is used instead of the functional unit because the precise function of the product or scenarios at the building level is not considered for in the EPD (EPD International, 2017). The area density provided in Table 2 can be used to convert the LCA results to a functional unit of m<sup>2</sup>.

The product configurations assessed in this report should not be compared as they all vary in type and/or scope. However, the results can be used for comparative assertions between products with comparable function and assessment scope.

LCA requires a compilation of the inputs, outputs and environmental impacts of a product system throughout its life cycle. LCA can enable businesses to identify resource flows, waste generation and contribution to environmental impacts (such as climate change) associated with the provision of products and services.

Life cycle thinking is a core concept in sustainable consumption and production for policy and business. Upstream and downstream consequences of decisions must be taken into account to help avoid the shifting of burdens from one type of environmental impact to another, from one political region to another, or from one stage to another in a product's life cycle from the cradle to the grave.

According to EN 15804, EPDs of construction products may not be comparable if they do not comply with this standard, particularly if hailing from different programmes or if different functional units are used.



## Core Data Collection

Life cycle data has been sourced from first hand sources from the manufacturer and its suppliers. Table 4 summarises data sources per life cycle stage.

**Table 4** - Data sources and quality

	<b>Product Data</b>	<b>Module A1</b>	<b>Module A2</b>	<b>Module A3</b>
<b>Data</b>	Range and physical properties	Raw material inputs Energy inputs	Transportation from overseas suppliers to Australia	Water inputs Consumable inputs Waste outputs Internal transport distances
<b>Source</b>	Collected by manufacturer	Collected by manufacturer	Supplier locations provided by manufacturer. Distances calculated with online tool. Transport specifications assumed from Ecoinvent 3.3 processes	Collected by manufacturer
<b>Quality</b>	Good	Good	Good	Good

### Background Data

Generic background data was sourced for raw materials in the upstream module, transportation and end of life. Background data was adapted to represent Instyle products as accurately as possible. Data were primarily modelled with the ecoinvent 3.3 (Ecoinvent Centre, 2016) and AusLCI database (AusLCI, 2016) all background data used was less than 10 years old.

### Cut Off Criteria

Environmental impacts relating to personnel, infrastructure, and production equipment not directly consumed in the process are excluded from the system boundary as per the PCR CPC 54, Version 2.1, dated 2017-01-04 (EPD International, 2017). All other reported data were incorporated and modelled using the best available life cycle inventory data.

### Allocation

Allocation was carried out in accordance with the PCR (EPD International, 2017). No-allocation between co-products was made in the core module as there were no co-products created during manufacturing.

# Environmental Performance

This section presents the potential environmental impacts, use of resources and waste production and output flows of Instyle acoustic products.

## Potential Environmental Impact

**Table 5** – Potential environmental impacts per 1 DU acoustic products.

**GWP** = Global Warming Potential,  
**ODP** = Ozone Depletion Potential,  
**AP** = Acidification Potential,  
**EP** = Eutrophication Potential,  
**POCP** = Photochemical Oxidant Formation Potential,  
**ADPE** = Abiotic Resource Depletion Potential – Elements,  
**ADPF** = Abiotic Resource Depletion Potential – Fossil Fuel

Product name	GWP (kgCO2 eq)	ODP (kgCFC11 eq)	POCP (kgC2H2 eq)	AP (kgSO2 eq)	EP (kgPO43- eq)	ADPE (kgSb eq)	ADPF (MJ)
Ecoustic Felt	2.95E+00	1.70E-07	4.86E-04	1.24E-02	1.76E-03	4.96E-06	4.60E+01
Ecoustic Curve	3.61E+00	2.01E-07	6.43E-04	1.48E-02	1.95E-03	7.96E-06	6.11E+01
Ecoustic Miniflex	3.62E+00	2.05E-07	7.14E-04	1.56E-02	1.93E-03	9.63E-06	6.42E+01
Ecoustic Panel 8mm Black	3.69E+00	2.17E-07	7.32E-04	1.58E-02	2.01E-03	9.16E-06	6.62E+01
Ecoustic Panel 8mm White	3.82E+00	2.17E-07	7.75E-04	1.64E-02	2.04E-03	9.99E-06	6.91E+01
Ecoustic Panel 13.5mm Black	3.80E+00	2.25E-07	7.63E-04	1.64E-02	2.06E-03	9.94E-06	6.86E+01
Ecoustic Panel 13.5mm White	3.93E+00	2.25E-07	8.08E-04	1.71E-02	2.09E-03	1.08E-05	7.15E+01
Ecoustic Panel 25mm Black	3.21E+00	1.89E-07	5.62E-04	1.33E-02	1.89E-03	5.89E-06	5.31E+01
Ecoustic Panel 25mm White	3.38E+00	1.92E-07	6.21E-04	1.43E-02	1.93E-03	7.02E-06	5.72E+01
Ecoustic Panel 50mm Black	3.25E+00	1.93E-07	5.67E-04	1.35E-02	1.92E-03	6.09E-06	5.34E+01
Ecoustic Panel 50mm White	3.44E+00	1.97E-07	6.33E-04	1.46E-02	1.97E-03	7.36E-06	5.79E+01
Ecoustic Panel 25mm USA White	4.57E+00	2.62E-07	1.02E-03	2.01E-02	2.28E-03	1.50E-05	8.88E+01
Ecoustic Panel 50mm USA White	4.71E+00	2.73E-07	1.06E-03	2.09E-02	2.35E-03	1.59E-05	9.15E+01
Ecoustic Screen 12mm Black	3.67E+00	2.15E-07	7.26E-04	1.57E-02	2.00E-03	8.99E-06	6.58E+01
Ecoustic Screen 12mm White	3.78E+00	2.14E-07	7.63E-04	1.62E-02	2.03E-03	9.71E-06	6.82E+01
Ecoustic Ceiling Flats 13.5mm	3.73E+00	2.11E-07	7.42E-04	1.61E-02	2.00E-03	9.59E-06	6.63E+01
Ecoustic Ceiling Flats 25mm	4.20E+00	2.40E-07	8.98E-04	1.83E-02	2.18E-03	1.24E-05	7.89E+01

## Use of Resources

**Table 6** – Use of resources per 1 DU acoustic products.

PERE = Use of renewable primary energy excluding raw materials,  
 PERT = Total use of renewable primary energy resources,  
 PENRM = Use of non-renewable primary energy resources used as raw materials,  
 SM = Use of secondary material,  
 NRSF = Use of non-renewable secondary fuels,  
 INA = Indicator not assessed

PERM = Use of renewable primary energy resources used as raw materials,  
 PENRE = Use of non-renewable primary energy excluding raw materials,  
 PENRT = Total use of non-renewable primary energy resources,  
 RSF = Use of renewable secondary fuels,  
 FW = Use of net fresh water,

Product name	PERE (MJ)	PERM (MJ)	PERT (MJ)	PENRE (MJ)	PENRM (MJ)	PENRT (MJ)	SM (kg)	RSF (MJ)	NRSF (MJ)	FW (m3)
Ecoustic Felt	1.76E+00	0.00E+00	1.76E+00	4.66E+01	4.95E+00	5.16E+01	8.32E-01	0.00E+00	0.00E+00	4.90E-02
Ecoustic Curve	2.33E+00	0.00E+00	2.33E+00	6.24E+01	9.99E+00	7.24E+01	6.07E-01	0.00E+00	0.00E+00	5.04E-02
Ecoustic Miniflex	2.40E+00	0.00E+00	2.40E+00	6.59E+01	1.12E+01	7.71E+01	4.99E-01	0.00E+00	0.00E+00	5.06E-02
Ecoustic Panel 8mm Black	3.16E+00	0.00E+00	3.16E+00	6.83E+01	1.19E+01	8.02E+01	4.93E-01	0.00E+00	0.00E+00	5.01E-02
Ecoustic Panel 8mm White	3.30E+00	0.00E+00	3.30E+00	7.13E+01	1.32E+01	8.45E+01	4.41E-01	0.00E+00	0.00E+00	5.07E-02
Ecoustic Panel 13.5mm Black	3.23E+00	0.00E+00	3.23E+00	7.06E+01	1.32E+01	8.39E+01	4.57E-01	0.00E+00	0.00E+00	5.09E-02
Ecoustic Panel 13.5mm White	3.38E+00	0.00E+00	3.38E+00	7.38E+01	1.45E+01	8.83E+01	4.04E-01	0.00E+00	0.00E+00	5.16E-02
Ecoustic Panel 25mm Black	2.87E+00	0.00E+00	2.87E+00	5.41E+01	6.70E+00	6.08E+01	7.20E-01	0.00E+00	0.00E+00	4.87E-02
Ecoustic Panel 25mm White	3.07E+00	0.00E+00	3.07E+00	5.84E+01	8.44E+00	6.69E+01	6.47E-01	0.00E+00	0.00E+00	4.93E-02
Ecoustic Panel 50mm Black	3.01E+00	0.00E+00	3.01E+00	5.42E+01	7.02E+00	6.12E+01	7.23E-01	0.00E+00	0.00E+00	4.93E-02
Ecoustic Panel 50mm White	3.23E+00	0.00E+00	3.23E+00	5.91E+01	8.97E+00	6.81E+01	6.41E-01	0.00E+00	0.00E+00	5.00E-02
Ecoustic Panel 25mm USA White	4.03E+00	0.00E+00	4.03E+00	9.28E+01	2.10E+01	1.14E+02	1.04E-01	0.00E+00	0.00E+00	5.33E-02
Ecoustic Panel 50mm USA White	4.36E+00	1.00E+00	5.36E+00	9.56E+01	2.23E+01	1.18E+02	6.78E-02	0.00E+00	0.00E+00	5.43E-02
Ecoustic Screen 12mm Black	3.12E+00	0.00E+00	3.12E+00	6.79E+01	1.17E+01	7.96E+01	4.98E-01	0.00E+00	0.00E+00	4.99E-02
Ecoustic Screen 12mm White	3.24E+00	0.00E+00	3.24E+00	7.05E+01	1.27E+01	8.32E+01	4.54E-01	0.00E+00	0.00E+00	5.04E-02
Ecoustic Ceiling Flats 13.5mm	2.98E+00	0.00E+00	2.98E+00	6.82E+01	1.26E+01	8.07E+01	4.85E-01	0.00E+00	0.00E+00	5.06E-02
Ecoustic Ceiling Flats 25mm	3.87E+00	0.00E+00	3.87E+00	8.20E+01	1.69E+01	9.89E+01	2.79E-01	0.00E+00	0.00E+00	5.20E-02

# Waste Production and Output Flows

**Table 7** – Generation of waste per 1 DU acoustic products

HWD = Hazardous waste disposed,  
 RWD = Radioactive waste disposed,  
 MRE = Materials for recycling,  
 EE = Exported energy

NHWD = Non-hazardous waste disposed,  
 CRE = Components for reuse,  
 MER = Materials for energy recovery,

Product name	HWD (kg)	NHWD (kg)	RWD (kg)	CRE (kg)	MRE (kg)	MER (kg)	EE (MJ)
Ecoustic Felt	1.61E-04	2.52E-01	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Curve	3.10E-04	2.99E-01	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Miniflex	3.93E-04	3.02E-01	8.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 8mm Black	3.64E-04	2.98E-01	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 8mm White	4.04E-04	3.15E-01	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 13.5mm Black	4.02E-04	3.04E-01	9.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 13.5mm White	4.44E-04	3.22E-01	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 25mm Black	2.11E-04	2.70E-01	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 25mm White	2.65E-04	2.94E-01	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 50mm Black	2.21E-04	2.72E-01	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 50mm White	2.81E-04	2.99E-01	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 25mm USA White	6.35E-04	3.66E-01	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Panel 50mm USA White	6.74E-04	3.78E-01	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Screen 12mm Black	3.56E-04	2.97E-01	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Screen 12mm White	3.91E-04	3.12E-01	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Ceiling Flats 13.5mm	3.87E-04	3.21E-01	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecoustic Ceiling Flats 25mm	5.13E-04	3.43E-01	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00

## Interpretation of Results

The manufacturing of raw materials contributes between 83% to 98% of the potential environmental impacts, followed by transport of raw materials to the manufacturer factory gate with 3% to 15% of impacts and manufacturing with 1 to 4%. On average the manufacturing of raw materials contributes 84% of the renewable energy input, 97% of the non-renewable energy input and 96% of the water input. Further the main contributor to the use of energy resources, secondary material and water is the manufacture of raw materials.

The main kind of waste generated in the life cycle of Instyle products is non-hazardous waste (>99%) with the main contributor to waste outputs being the raw material supply chain.

The manufacturing of raw materials is responsible for 100% of the hazardous waste, 91% of the non-hazardous waste and 83% of the radioactive waste. Transport of raw materials to the manufacturer factory gate is responsible for 5% of the non-hazardous waste and 15% of the radioactive waste.





## Sustainability

Instyle and the manufacturer are committed to sustainable practice throughout its business.

### Recycled Products

The manufacturer is focused on producing environmentally neutral and recyclable products through sustainable manufacturing processes. The manufacturer uses PET bottle recycled material for a select number of products, as we understand the importance of reducing impact on the environment and preserves ensure we are contributing to being an environmental friendly business.



### Green Tag

Independent environmental assessments have been completed by Ecospecifier on Instyle's range of products and are ideal for use in Green Star® projects. Recognised by the Green Building Council of Australia (GBCA) and Green Building Council of New Zealand (NZ-BC), Instyle products can contribute to points available in the rating tools that assess the environmental sustainability of building projects at the design, construction and as built phases: Green Star® – Design and As Built, and the interior fit-out phase: Green Star® – Interiors.

Our products are GreenTag certified GreenRate Level 1 – the highest level achievable.



## Environmental credentials:

- Products with recycled content reduce greenhouse gas emissions
- High reusable potential
- Products manufactured from thermally bonded polyester fibre have a minimum of 60% recycled fibre content from PET packaging such as empty drink bottles
- The products are 100% recyclable
- Volatile organic compounds (VOCs) generated in the manufacturing process is classified as low (0.01 mg/m<sup>3</sup>)
- No ozone-depleting gases are used during the manufacturing process
- No red list chemicals are present
- Safe, non-irritant, non-toxic, and non-allergenic

Safe Use Instruction Sheet (SUIS) can be downloaded from [instyle.com.au](http://instyle.com.au)





## Ecospecifier

The products covered by this EPD are verified as meeting the Ecospecifier Verified Product Standard.

Ecospecifier is an independent third party who provides a unbiased assessment to determine if products are eco and health preferable based on the premise that:

- They exhibit one or more eco or health preferable characteristic compared to other products in their category; or
- They are a member of a product category that is in itself an eco or health preferred category; and
- They do not contain 'significant' ecological or health damaging content.



## Environmental Benefits

- Recycled content up to 80% PET
- Green Tag™ certified
- 100% Recyclable
- Suitable for Green Star™ projects
- Volatile organic compounds (VOCs) generated in the manufacturing process is classified as low (0.01 mg/m3)s

## Fire Hazard Properties

Our products have been subjected to early fire hazard testing in accordance with Australian Standard AS 1530.3 or AS ISO 9705 - 2003 / ISO 9705:1993 and the following results were obtained:

Ignitability	0	Test Standard	Building Code	Classification
Spread of Flame	0	AS ISO 9705 – 2003	NCC C1.10	Group 1 SMOGR < 100m2/s2
Heat Evolved	0	ISO 9705:1993	NZBC C/VM2	Group 1-S Smoke Prod Rate < 5m2/s
Smoke Developed	0-1			

# Programme-Related Information and Verification

See PCR for detailed requirements.

Programme:	The International EPD® System EPD International AB Box 210 60 SE-100 31 Stockholm Sweden www.environdec.com
EPD registration number:	S-P-01004
Published:	2018-08-09
Valid until:	2023-08-09
Revision date:	N/A
Product Category Rules:	PCR for Construction Products and Construction Services CPC 54 Version 2.2. 2017-05-30
Product group classification:	UN CPC 54
Reference year for data:	2016
Geographical scope:	Australia

Product category rules (PCR):  
PCR for Construction Products and Construction  
Services CPC 54 Version 2.2. 2017-05-30

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PCR review was conducted by:  
IVL Swedish Environmental Research Institute  
Moderator: Martin Erlandsson, martin.erlandsson@ivl.se

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Independent verification of the declaration and data, according to ISO  
14025:2006:

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EPD Process Certification (internal)      EPD Verification (external)

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Third party verifier:

Jane Anderson  
ConstructionLCA Limited  
3 Evergreen Drive, Caistor, LN7 6NS United Kingdom  
m: +44 (0) 7932 696077 email: jane@constructionlca.co.uk

Approved by the International EPD System



## Mandatory Statements

The EPD of construction products may not be comparable if they do not comply with the requirements of comparability set in EN 15804. EPDs within the same product category but from different programmes may not be comparable.

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 **EPD**®  
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