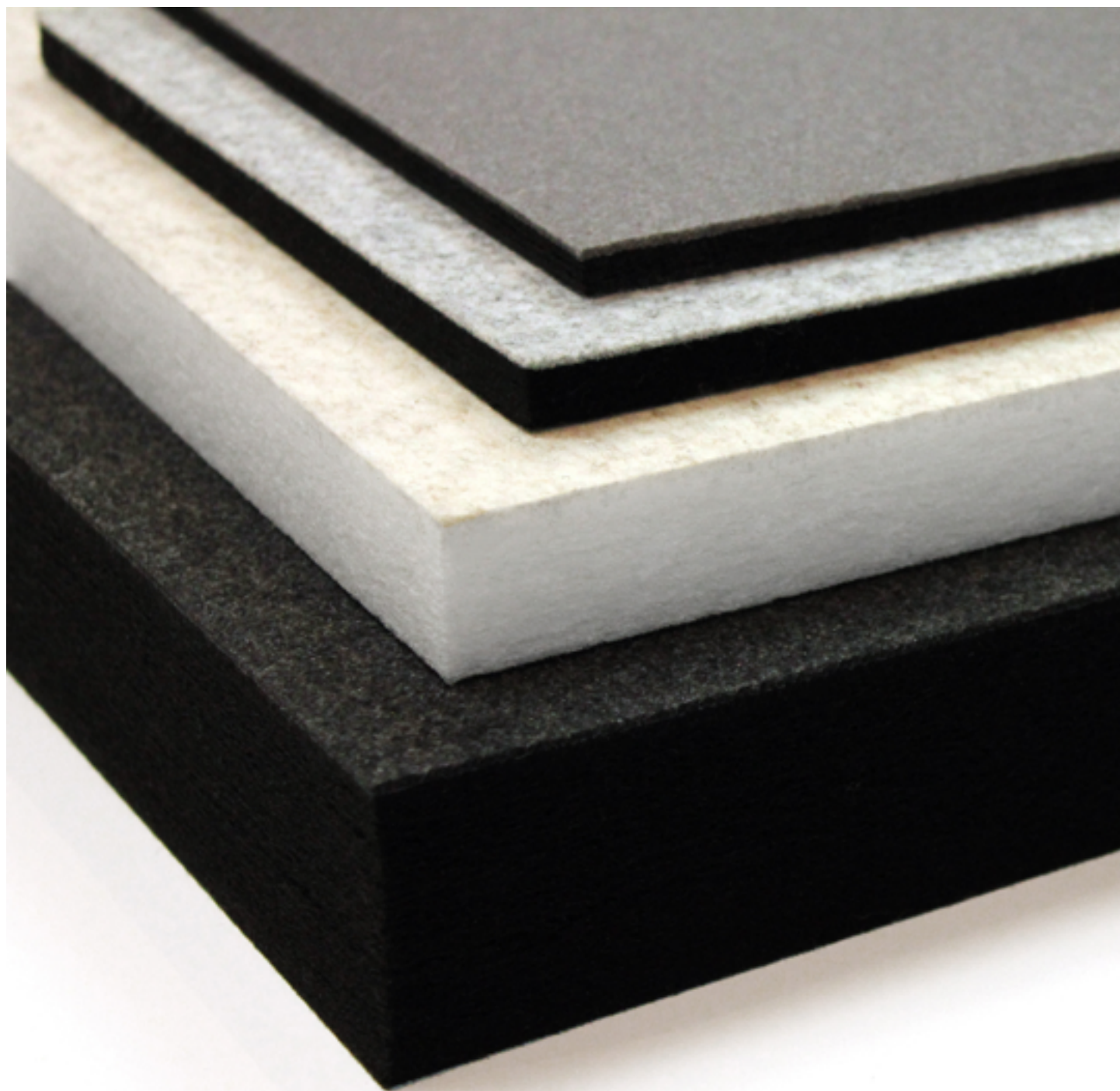


Ecooustic® Felt Panel

ecooustic®

—
Elegant acoustic panels with high performing white or black acoustic core



INSTYLE



COMPOSITION	100% PET (up to 80% recycled PET)		
THICKNESS / WEIGHT APPROX	8mm (+/-1mm approx) / 1550gsm 13.5mm (+/-1mm approx) / 2750gsm 25mm (+/-2mm approx) / 2650gsm 50mm (+/-2mm approx) / 4150gsm		
DIMENSIONS	1210 x 2720mm approx.		
LIGHTFASTNESS ISO 105-B02	> 6		
LUMINOUS REFLECTANCE	Please refer to specific test results		
FIRE RATINGS AS/NZS 1530.3		8mm	13.5mm
	Ignitability	6	0
	Spread of Flame	0	0
	Heat Evolved	1	0
	Smoke Developed	6	4
AS/ISO 9705 AS 5637.1	BCA Group 1 SMOGRA <100 NZBC Group 1-S		
GB 8624-2012	8mm: Grade B1		
THERMAL PERFORMANCE	25mm: R 0.7 (23°C) 50mm: R 1.36		
APPLICATION	Screen, wall + ceiling panel		
ORIGIN	Made in Australia		
PLEASE NOTE	Results from performance tests are guidelines only Onsite trimming to square each individual panel is essential Variation in thickness, fibre mix and colour as well as flecks + other slight surface blemishes are an inherent feature of this product and are unavoidable. Variation from batch to batch may occur Interior products must be protected from direct heat + sunlight		

BENEFITS

Improved Pinability

Ecoustic® Panel features an improved pinability compared to similar panel products.

Lightweight, Easy to Handle + Install

Compared to traditional panels, Ecoustic® Panel is lower in weight, easier to handle and costs less in transport.

Edging + T Trim

Natural anodised aluminium edging + T Trim are available.

Warranty

5 year conditional warranty against manufacturing defects. This applies to internal installation only, outdoor use will void any warranty.

HOW TO SPECIFY	
PRODUCT	Ecoustic Felt Panel
THICKNESS	8mm, 13.5mm, 25mm or 50mm
COLOUR	Select from Ecoustic® Felt colours
EDGING / T TRIM	Optional extra - order separately

ecooustic® Felt Panel Colours



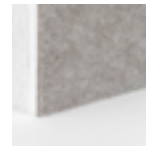
White*



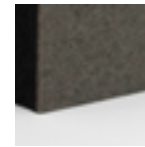
Cream*



Natural*



Oatmeal*



Quartz



Taupe



Opal*



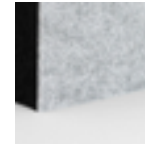
Dove*



Oyster*



Lunar*



Light Grey



Pewter



Spray*



Sky*



Arctic



Baltic



Cobalt



Nautical



Green



Field



Caper



Aqua



Hunter



Indigo



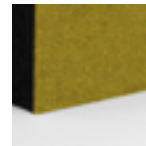
Fresco*



Lime



Yellow



Lemon



Mica*



Sepia



Cameo*



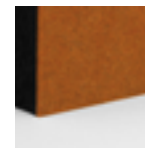
Aubergine



Red



Berry



Orange



Paprika



Fossil



Vault



Charcoal



Jet

*White, Natural, Sky, Cream, Cameo, Fresco, Oatmeal, Opal, Dove, Oyster, Lunar, Mica + Spray are supplied with white core, other colours are supplied with black core

Product may vary in colour due to the nature of the media

Please refer to website for current colour range

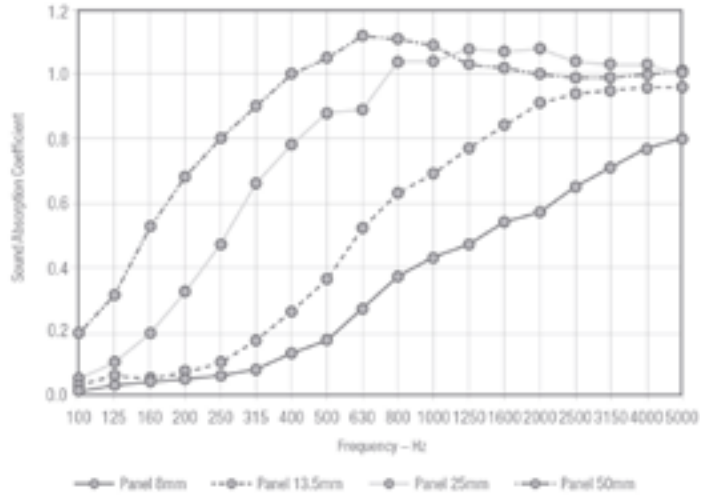
Ecoustic® Panel

8mm	NRC 0.3 / α_w 0.34 (Direct Fix)
13.5mm	NRC 0.5 / α_w 0.4MH (Direct Fix)
25mm	NRC 0.85 / α_w 0.8(H) (Direct Fix)
50mm	NRC 1.0 / α_w 1.0 (Direct Fix)

The sound absorption improves if the panel is installed with an airgap.

Tested in accordance with AS/ISO 354.

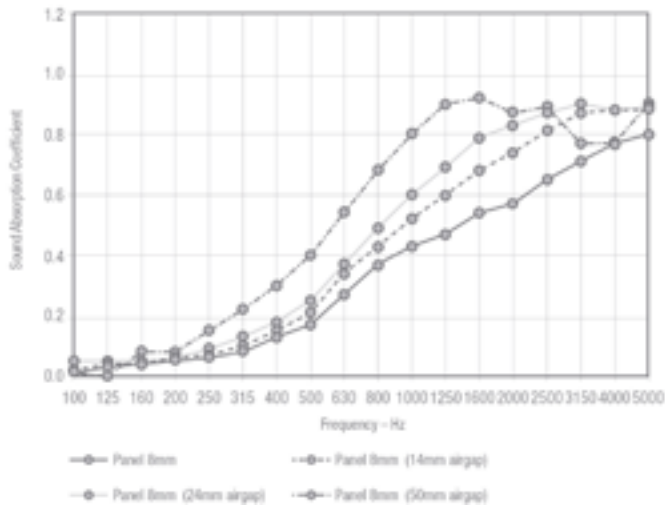
For complete test reports please contact your local distributor.



Ecoustic® Panel 8mm

Ecoustic® Panel 8mm is ideal for high frequency absorption.

Direct Fix NRC 0.3 / α_w 0.34
 14mm Airgap NRC 0.4 / α_w 0.41
 24mm Airgap NRC 0.45 / α_w 0.45
 50mm Airgap NRC 0.55 / α_w 0.4

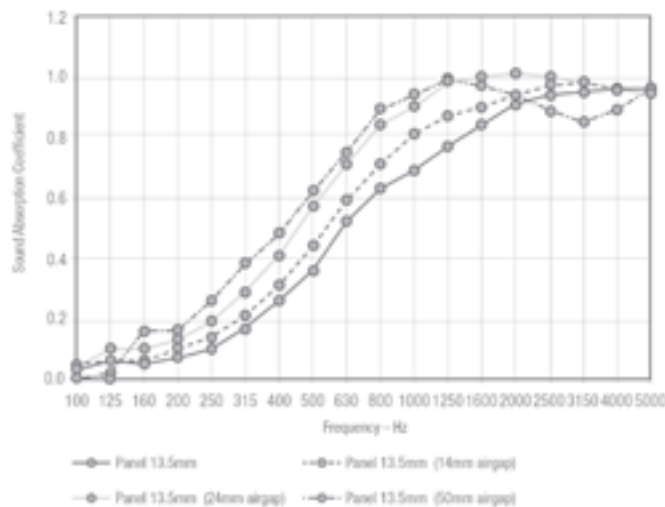


Frequency	Direct Fix	14mm Airgap	24mm Airgap	50mm Airgap
100	0.01	0.02	0.05	0.01
125	0.03	0.04	0.05	0.00
160	0.04	0.04	0.05	0.08
200	0.05	0.06	0.06	0.08
250	0.06	0.07	0.09	0.15
315	0.08	0.10	0.13	0.22
400	0.13	0.15	0.18	0.30
500	0.17	0.21	0.25	0.40
630	0.27	0.34	0.37	0.54
800	0.37	0.43	0.49	0.68
1000	0.43	0.52	0.60	0.80
1250	0.47	0.60	0.69	0.90
1600	0.54	0.68	0.79	0.92
2000	0.57	0.74	0.83	0.87
2500	0.65	0.81	0.87	0.89
3150	0.71	0.87	0.90	0.77
4000	0.77	0.88	0.88	0.77
5000	0.80	0.88	0.89	0.90
NRC	0.3	0.4	0.45	0.55

Ecoustic® Panel 13.5mm

Ecoustic® Panel 13.5mm is ideal for high frequency absorption.

Direct Fix NRC 0.5 / α_w 0.4 MH
 14mm Airgap NRC 0.6 / α_w 0.56
 24mm Airgap NRC 0.65 / α_w 0.5 MH
 50mm Airgap NRC 0.7 / α_w 0.55

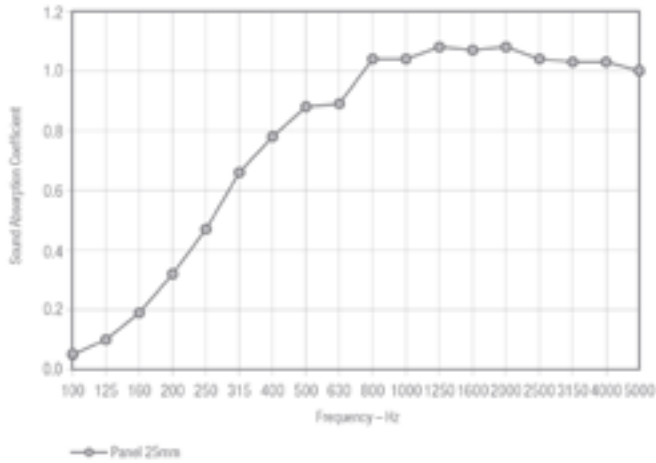


Frequency	Direct Fix	14mm Airgap	24mm Airgap	50mm Airgap
100	0.03	0.05	0.04	0.00
125	0.06	0.06	0.10	0.02
160	0.05	0.06	0.10	0.16
200	0.07	0.10	0.13	0.16
250	0.10	0.14	0.13	0.16
315	0.17	0.21	0.29	0.38
400	0.26	0.31	0.41	0.48
500	0.36	0.44	0.57	0.62
630	0.52	0.59	0.71	0.75
800	0.63	0.71	0.84	0.89
1000	0.69	0.81	0.90	0.94
1250	0.77	0.87	0.98	0.99
1600	0.84	0.9	1.0	0.97
2000	0.91	0.94	1.01	0.94
2500	0.94	0.97	1.0	0.89
3150	0.95	0.98	0.98	0.85
4000	0.96	0.96	0.96	0.89
5000	0.96	0.96	0.94	0.96
NRC	0.5	0.6	0.65	0.7

Ecoustic® Panel 25mm

Ecoustic® Panel 25mm is ideal for medium and high frequency absorption.

NRC 0.85 / α_w 0.8(H)

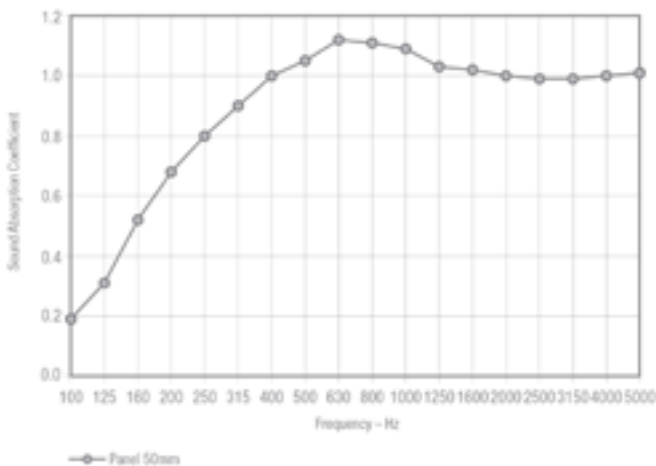


Frequency	Direct Fix
100	0.05
125	0.10
160	0.19
200	0.32
250	0.47
315	0.66
400	0.78
500	0.88
630	0.89
800	1.04
1000	1.04
1250	1.08
1600	1.07
2000	1.08
2500	1.04
3150	1.03
4000	1.03
5000	1.00
NRC	0.85

Ecoustic® Panel 50mm

Ecoustic® Panel 50mm displays broadband characteristics and is ideal for low, medium and high frequency absorption

NRC 1.0 / α_w 1.0



Frequency	Direct Fix
100	0.19
125	0.31
160	0.52
200	0.68
250	0.8
315	0.9
400	1.0
500	1.05
630	1.12
800	1.11
1000	1.09
1250	1.03
1600	1.02
2000	1.0
2500	0.99
3150	0.99
4000	1.0
5000	1.01
NRC	1.0



CERTIFICATIONS + STANDARDS

- Environmental Product Declaration (EPD)
- Declare Red List Free
- Greentag Level A
- Low VOC

ENERGY + EMISSIONS

- Embodied carbon: 3.7~4.7kg CO2eq per kg

WATER + CHEMICALS

- No water is used in production of Ecoustic® Felt Panels
- Ecoustic® Felt Panels do not contain any Banned List chemicals
- Third-party certifications assess chemical safety to 99% of material weight

CIRCULARITY + LIFECYCLE

- Ecoustic® Felt Panels are a pure Technical Nutrient in the circular economy
- Ecoustic® Felt Panels contain minimum 60% post-consumer recycled PET
- Ecoustic® Felt Panels are designed for disassembly + reuse, Instyle's aluminium edging profiles allow for adhesive-free installation + easy material separation at the end of the product lifecycle
- Ecoustic® Felt Panels can be accepted for takeback as part of our REVIVE® Product Stewardship Scheme

LAND USE + BIODIVERSITY

- Impacts on land and biodiversity such as resource use, output flows + waste, acidification + eutrophication are quantified in the product's Lifecycle Assessment (LCA) available in the EPD

SOCIAL IMPACT

- Supplier has an established human rights policy + reports annually into the Australian Modern Slavery Act 2018 (Cth)
- Supply chain Code of Conduct in place
- Greentag certification requires supplier comply with relevant social and environmental legislative + legal requirements, including ILO conventions, and that a risk assessment be completed to address potential health, safety + human rights risks

BUILDING RATING SYSTEMS

Ecoustic® Felt Panels will contribute the following points for Green Star, LEED + WELL building standards:

Criteria	Green Star	LEED	WELL
Recycled Content	✓	✓	NA
Low VOC	✓	✓	✓
Recycling Program	✓	✓	NA
EPD	✓	✓	NA
Declare Label	NA	✓	✓
Greentag Level A Certification	✓	✓	✓
Toxic Material Reduction	NA	NA	✓
Sound Reducing Surfaces 25mm + 50mm	NA	NA	✓

GREEN STAR

- Indoor Pollutants/Low VOC (12)
- Recycled Content Product (21.1 B)
- Environmental Product Declarations (21.1 C)
- Third Party Certification (21.1 D)
- Product Stewardship Program (21.1 E)

LEED

- Low Emitting Materials / Low VOC (EQ credit)
- Environmental Product Declarations (MR credit)
- Material Ingredient Reporting (MR credit)
- Extended Producer Responsibility (MR credit)

WELL

- Enhanced Material Restrictions (X05)
- Air Quality/VOC Restrictions (A01 + X06)
- Materials Transparency (X07)
- Materials Optimisation (X08)
- Sound Reducing Surfaces (S05)

