DECRABAFFLE- DATA SHEET

DECRABAFFLE™ is a high-performance, decorative acoustic ceiling baffle system manufactured from premium PET acoustic panels. Designed for both sound absorption and architectural impact, DECRABAFFLE combines clean aesthetics with superior acoustic control, making it ideal for commercial, hospitality, education, and public spaces.

PRODUCT RANGE

Type	Description
Straight	Clean linear baffles for modern architectural spaces.
Wavy	Wavy flowing forms, creating soft dynamic ceilings.
Open cell	Vertical baffles in a crisscross configuration.
Geometric	Angular, sharp-edged architectural profiles.
Curved	Curved baffle precision-curved during fabrication to create smooth, flowing ceiling forms.

TECHNICAL SPECIFICATIONS

Specification	Details
Content	100% Polyester (PET) Acoustic Panel
Thickness	9mm | 12mm | 24mm | Custom
Length	600 |1200mm | 2400mm | 2800 Custom
Height	100mm – 1200mm (Custom)
Installation	V-Keel | U-Keel | Cable |

PERFORMANCE

Acoustic Performance: configuration dependent, see below NRC for different options. Other configuration tests are available upon request.

Fire Rating: ASTM E84 – Class A

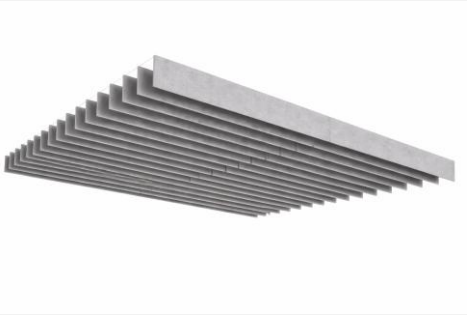
Environmental: EPD, PHD, Geen Tag and DECLARE Certifications.

APPLICATIONS

Offices, Airports, Education, Retail, Hospitality, Healthcare, Public Buildings.

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DECRABAFFLE – Straight Type

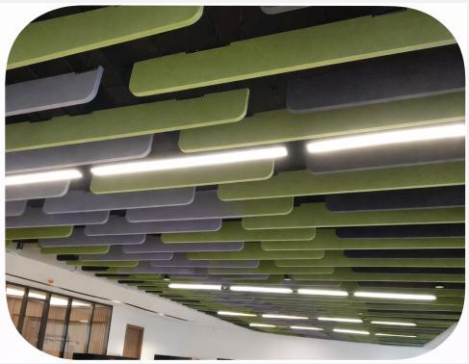


DECRABAFFLE Straight Type is a linear acoustic ceiling baffle system designed for clean, modern interiors requiring effective sound control. Its straight-edge profile creates a structured, uniform ceiling layout while delivering excellent acoustic absorption.

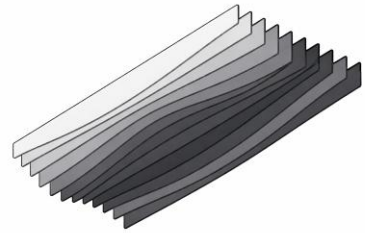
It can be fully customized to meet project requirements, with flexible options for **baffle thickness, depth, and spacing**, allowing precise acoustic performance and design control.





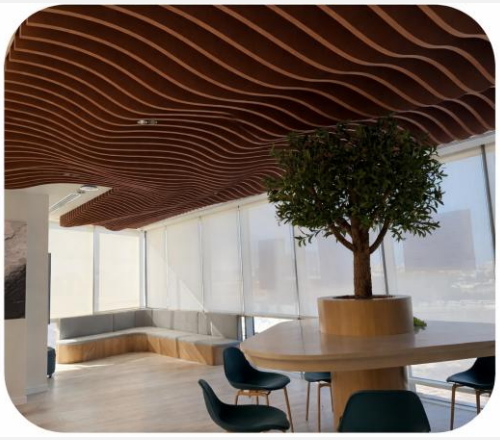


DECRABAFFLE – Wavy Type



wavy acoustic baffle system, engineered to deliver high-performance sound absorption while creating a sculptural, flowing ceiling feature.

It can be fully customized to meet project requirements, with flexible options for **baffle thickness, depth, and spacing**, allowing precise acoustic performance and design control.







DECRABAFFLE – Open cell Type

DECRABAFFLE open cell Type is a modular acoustic ceiling system made from interlocking PET baffles arranged in a grid formation. It enhances sound absorption while creating a distinctive 3D architectural ceiling feature.



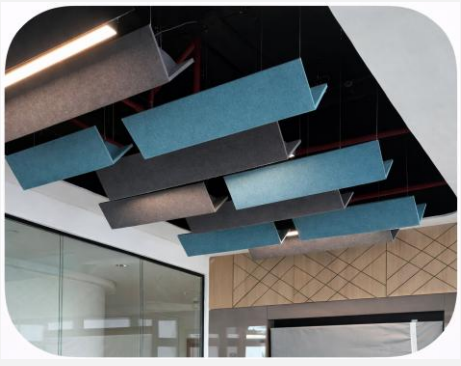






DECRABAFFLE – Geometric type

Geometric Baffles are suspended acoustic elements designed in angular, or patterned forms to create bold architectural ceilings while enhancing sound performance. Unlike standard linear systems, geometric baffles introduce dynamic visual rhythm through V-shape, Angled, Zig zag, Alternate color, U-shaped, wood print profiles.

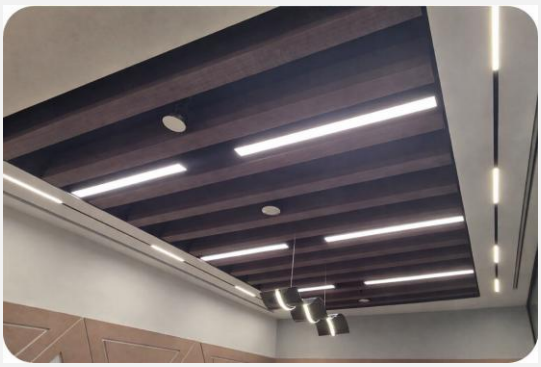








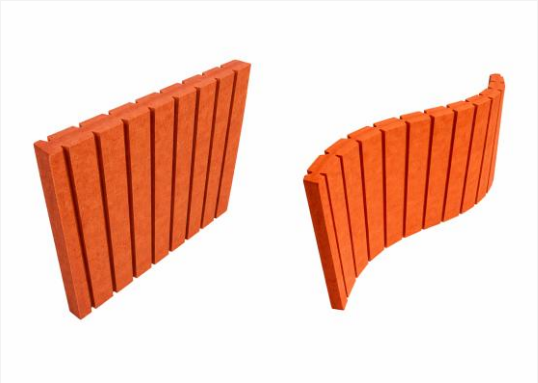




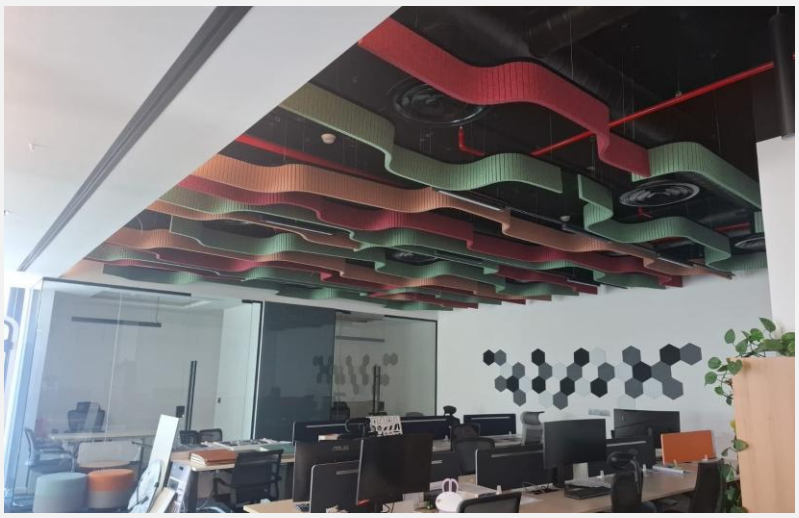
DECRABAFFLE – Curve Type

Curved acoustic baffles are PET panels that are **carefully curved during fabrication** to create smooth, flowing shapes. The curving process allows the panels to form dynamic ceiling designs while maintaining structural stability and acoustic performance. This curvature adds visual movement and improves sound absorption by increasing the exposed surface area.

Option 1: 12+12 mm PET panels **V-grooved on both sides**, allowing the panels to bend freely in both directions during installation, supplied with **pre-curved U-keels**.



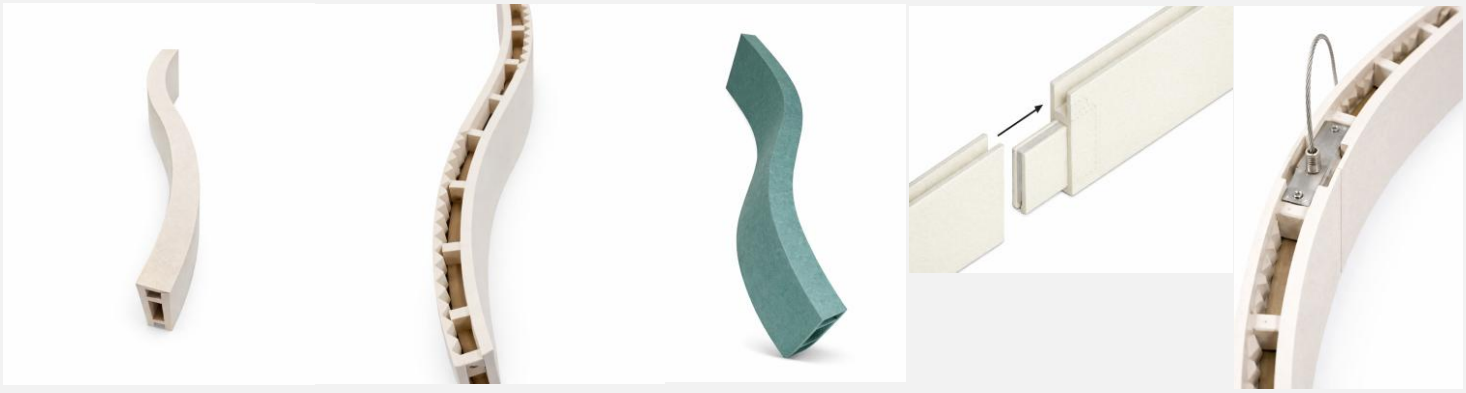








<u>Option 2:</u> Horizontally Curved baffles are manufactured in the factory by **precision cutting and forming PET panels into the required curved profiles**. Controlled fabrication ensures **consistent radius, clean edges, and uniform quality**, allowing the baffles to be delivered ready for installation with accurate shapes and dimensions.









Acoustic performance

Decrasound Decrabaffle provides maximum design flexibility coupled with functional performance allowing the control of reverberated noise within a building interior. Main baffle spacing of 100mm, 200mm and 300mm can be selected, each providing differing sound absorption performance.

For critical reverberation control requirements, maximum sound absorption can be achieved with the baffles at 100mm. Or for less critical requirements, baffle spacing of 200mm or 300mm can provide viable options.

Frequency (Hz)	125	250	500	1000	2000	4000	αw	SAA	NRC	Test report
Decrabaffle 12mm (300mm deep 100mm centres) See Note 1.	0.20	0.40	0.75	1.25	1.55	1.70	0.70 (MH)	0.99	1.00	CSIRO AC370-10[1]
Decrabaffle 12mm (300mm deep 200mm centres) See Note 1.	0.20	0.35	0.65	0.85	1.20	1.50	0.65 (MH)	0.84	0.85	CSIRO AC370-11[1]
Decrabaffle 12mm (300mm deep 300mm centres) See Note 1.	0.15	0.30	0.60	0.85	1.20	1.35	0.60 (MH)	0.73	0.75	CSIRO AC370-12[1]
Decrabaffle 12mm (300mm deep 100mm centres) See Note 2.	0.25	0.55	0.80	1.15	1.40	1.50	0.80 (H)	0.96	0.95	CSIRO AC370-07[2]
Decrabaffle 12mm (300mm deep 200mm centres) See Note 2.	0.25	0.50	0.65	0.90	1.20	1.35	0.70 (H)	0.82	0.80	CSIRO AC370-08[2]
Decrabaffle 12mm (300mm deep 300mm centres) See Note 2.	0.25	0.40	0.60	0.80	1.05	1.15	0.65 (H)	0.71	0.70	CSIRO AC370-09[2]

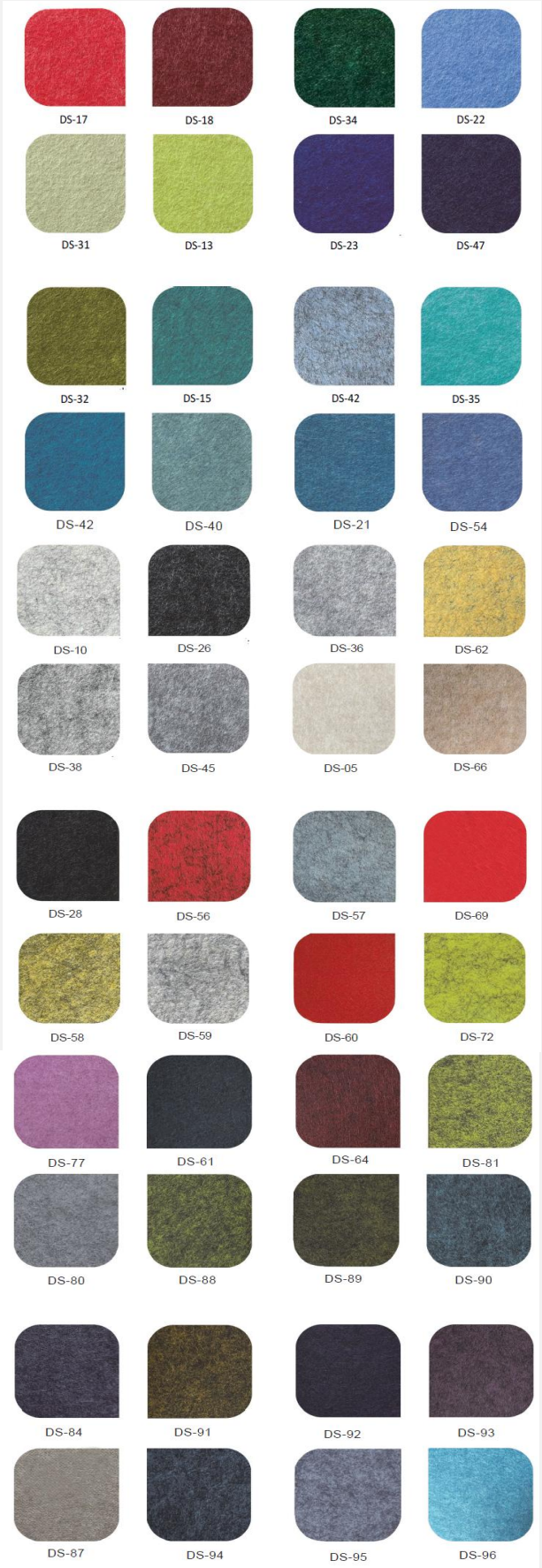
Notes:

1. Samples were tested with a 200mm air gap and without an enclosure
2. Samples were tested without an air gap and without an enclosure

- Test results with an enclosure around the sample as per Type J mounting in AS ISO 354 available on request.
- The table above shows the Practical sound absorption coefficients calculated according to ISO 11654 (note: values greater than 1.00 have not been maximised to 1.00 as required by ISO 11654 to calculate the αw).
- The Weighted sound absorption coefficient (αw) was calculated according to ISO 11654. It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient curve that can be obtained on request.
- The SAA (Sound Absorption Average) and the Noise Reduction Coefficient (NRC) have been calculated according to ASTM C423.
- The charts above show the third octave sound absorption coefficients measured according to ISO 354.

DECRASOUND COLORS





DECRASOUND WOOD PRINT



