

SOUNDSORBA®

ACOUSTIC PRODUCTS

POLYSORBA®

Polyester PET Acoustic Panels

POLYSORBA® is a new innovative range of 100% recycled acoustic products. Providing great acoustic results whilst allowing more creation for design.

POLYSORBA® is a multi-use range of products, perfect for schools, offices, meeting rooms, entrance areas and studios. It can also be effectively used in larger areas such as cinemas, theatres, lecture halls and restaurants.

POLYSORBA® provides a unique focus on design, whilst maintaining great sound absorption levels.



POLYSORBA® PET produced acoustic products

OUR METHOD

VISUAL

Our view is that the absorption levels of panels should not be hindered by your creative designs, they should be compatible. Allowing you full range of your creative capabilities, whilst preserving high NRC ratings.

FUNCTIONALITY

POLYSORBA® has set the standard for new improved acoustic panels. Manufactured from post-consumer waste and high impact PET, these eco-friendly products have a high NRC rating of 0.75.

Other competitive products to our range perform lower with a typical NRC rating of 0.65. Whilst having less density due to being made from numerous laminated 5mm layers.

ECO-FRIENDLY

Every day approximately 8 million pieces of **plastic** pollution find their way into our oceans. There may now be around 5.25 trillion macro and microplastic pieces floating in the open ocean. Weighing up to 269,000 tonnes. **Plastics** consistently make up 60 to 90% of all marine debris studied.

We are devoted to helping reduce the impact single use plastics have on the environment by manufacturing these into our products

COLOURS

See the POLYSORBA® colour chart to see our full range of 24 vibrant colours.



COMPOSITION

100% PET (60% recycled)



VOC EMISSIONS

ASTM D5116: - 0.02 mg/m2/hr
(7 days)



FIRE RESISTANCE

BS EN 13501-1:2018: B - s2, d0



COLOURS

Available in 24 vibrant colours



NRC

Up to 0.95

COLOURS

Available in 24 vibrant colours. See the POLYSORBA® Colour Book for our full range.



POLYSORBA® WALL

POLYSORBA® WALL is part of our acoustic wall panel range. Manufactured with 60% of waste PET from plastic and metal bottles.

Bottles are peeled into small fragments which are then sanitised, heated and put through a spinneret to develop thousands of long, thin thread-like fibres. These are then cooled, placed into a web and compacted together into panels that can be cut using water jet or machines, printed and thermoformed.

Due to the nature of the panels consisting entirely of PET plastics, they are non-toxic, have low VOC's, formaldehyde free and become once again a recyclable product.

SPECIFICATION

Nominal dimensions

Panel sizes: 2400mm x 1200mm (+/- 2mm)

Any size up to 2400mm x 1200mm can be manufactured.

Thickness: 12mm & 24mm (+/- 2mm)

Weight: 12mm = 2900g/m² & 24mm = 4800g/m²

Acoustic Performance

12mm:

- No air gap = NRC 0.55
- 20mm air gap = NRC 0.70

24mm:

- No air gap = NRC 0.75
- 25mm air gap = NRC 0.95



POLYSORBA® TILES

POLYSORBA® TILES are a modular tile system, part of our acoustic wall range. They come in two thicknesses and five different shapes for custom design. Custom shapes can be manufactured on request.

They can also be available in custom shapes and sizes, allowing more opportunity to generate a personal distinct design for your workspace.

SPECIFICATION

Shapes: Hexagon, Parallelogram, Rectangle, Square and Triangle.

Nominal Dimensions

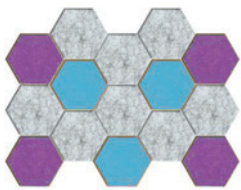
Thickness: 12mm & 24mm (+/- 2mm)

Weight: 12mm = 2900g/m² & 24mm = 4800g/m²

Typical Acoustic Performance

12mm: NRC 0.55 & 24mm = NRC 0.75

Other shapes and sizes available on request.



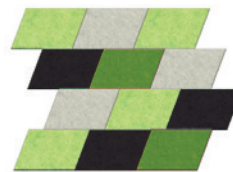
Hexagons

Available sizes
290mm x 250mm
600mm x 500mm



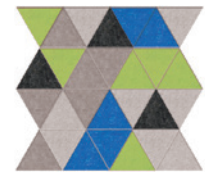
Rectangles & Squares

Available sizes
580mm x 290mm
1160mm x 580mm



Parallelograms

Available sizes
580mm x 290mm
1160mm x 580mm

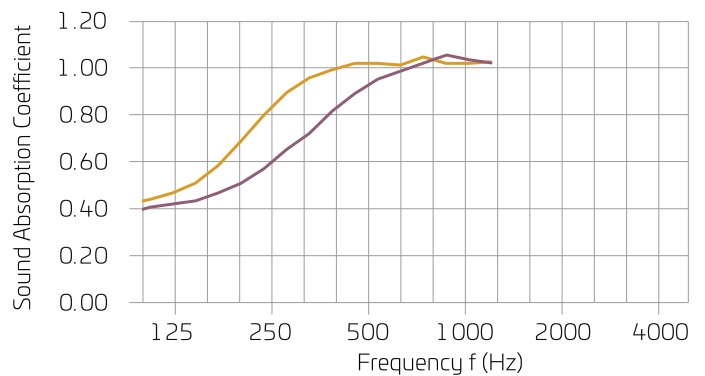


Triangles

Available sizes
290mm x 290mm
680mm x 680mm



ACOUSTIC PERFORMANCE ☺))



Frequency (Hz)	125	250	500	1000	2000	4000	NRC
12mm	0.05	0.10	0.30	0.65	0.90	0.95	0.55
24mm	0.10	0.25	0.60	0.90	0.95	0.95	0.75

POLYSORBA® BAFFLE

POLYSORBA® BAFFLE is part of our new ceiling treatments. Designed to provide access to the ceiling above, whilst covering the majority of the ceiling spacing with an acoustic solution. Standard available shapes are curved panels or squares, but it can also be available in custom shapes and sizes.

SPECIFICATIONS

Nominal Dimensions

Thickness: 12mm & 24mm (+/-2mm)

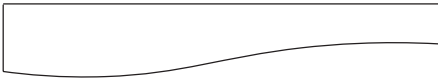
Weight: 12mm = 2900g/m² & 24mm = 4800g/m²

Acoustic Performance

- Directly fixed to ceiling = NRC 1.40
- Suspended 200mm from ceiling = NRC 1.30

SHAPES

Curve



Square

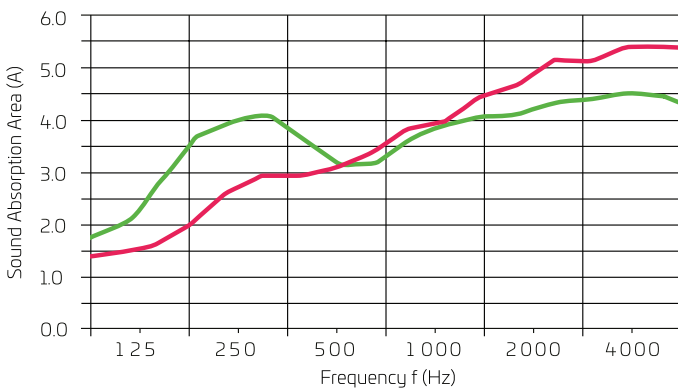


SIZES

- 1200mm x 200mm
- 1200mm x 300mm
- 1200mm x 400mm
- 2400mm x 200mm
- 2400mm x 300mm
- 2400mm x 400mm

Bespoke sizes are available.

ACOUSTIC PERFORMANCE)))



Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Direct Fix to Ceiling	2.2	4.0	3.3	4.0	4.4	4.5	1.40
200mm from Ceiling	1.5	2.5	3.1	4.1	5.0	5.4	1.30



POLYSORBA® RAFTS

POLYSORBA® RAFTS are a lightweight suspended ceiling system with a clean, crisp finish. Transforming the design of the room whilst improving the acoustics due to covering a large area of the ceiling. Once installed the Rafts still allow full access to the ceiling above.

POLYSORBA® RAFTS can come in a variety of different shapes, from circles to squares, spirals to hexagons and other shapes upon request.

SPECIFICATION

Thickness: 12mm & 24mm (+/- 2mm)

Weight: 12mm = 2900g/m² & 24mm = 5200g/m²

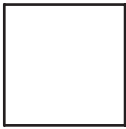
Typical Acoustic Performance:

12mm = NRC 0.55 & 24mm = NRC 0.75



SHAPES AND SIZES

Square



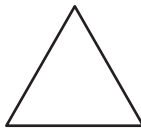
300mm x 300mm
600mm x 600mm
1200mm x 1200mm

Rectangle



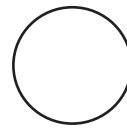
600mm x 300mm
1200mm x 600mm
2400mm x 1200mm

Triangle



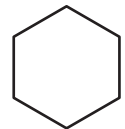
300mm x 300mm
600mm x 600mm
1200mm x 1200mm

Circle



300mm x 300mm
600mm x 600mm
1200mm x 1200mm

Hexagon



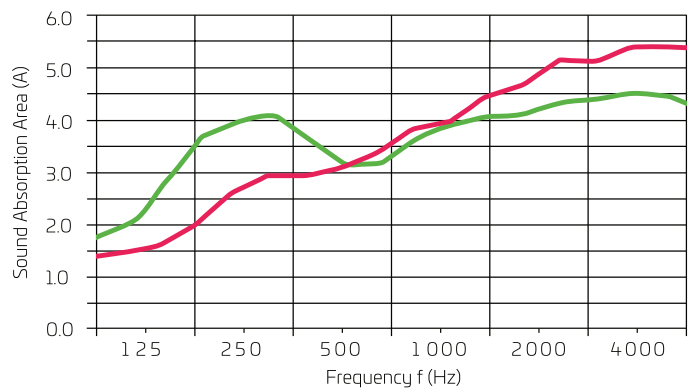
290mm x 250mm
600mm x 500mm

Custom sizes and shapes available on request.

Manufacturing sizes of up to 2400mm x 1200mm.



ACOUSTIC PERFORMANCE)))



Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Direct Fix to Ceiling	2.2	4.0	3.3	4.0	4.4	4.5	0.75
200mm from Ceiling	1.5	2.5	3.1	4.1	5.0	5.4	0.90

POLYSORBA® GRID Baffles

POLYSORBA® GRID Baffles are another product in our ceiling treatment range. Covering larger areas of the ceiling. Providing a stunning visual and acoustical treatment, whilst maintaining full ceiling access above.

From crisp straight lines, tight precise corners and easy flowing waves.

SPECIFICATION

Shapes: Square & Vector

Thickness: 12mm & 24mm (+/- 2mm)

Sizes: 2400mm x 1200mm & 2400mm x 2400mm

Weight: 24mm = 4800g/m²

Acoustic Performance:

- Fix directly to ceiling = NRC 1.40
- Suspended 200mm from ceiling = NRC 1.30

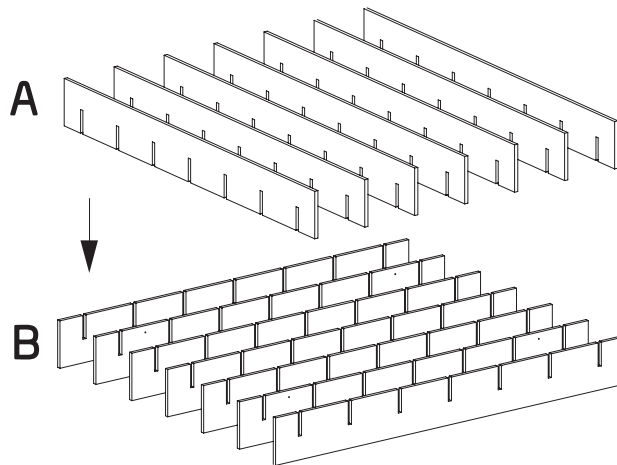


BUILDING YOUR GRID Baffles

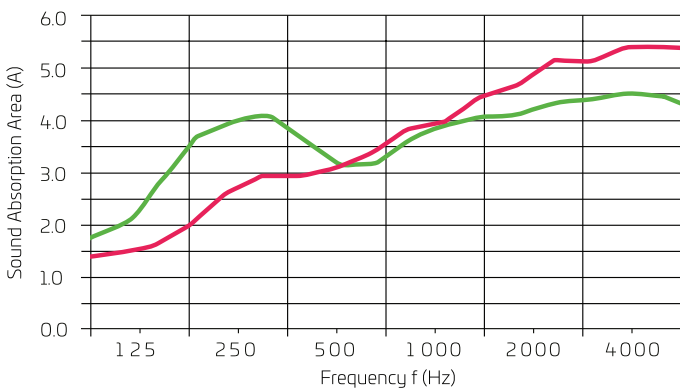
There are two different panels for the POLYSORBA® GRID Baffles, both are water jet cut.

Assembly is easy, lining up the grooves from section A and B, the panels simply fit together to lock into place. To keep the grid stable and maintain shape, a specially designed aluminium trim is inserted on top of section A. This allows simple installation of the Grid Baffles.

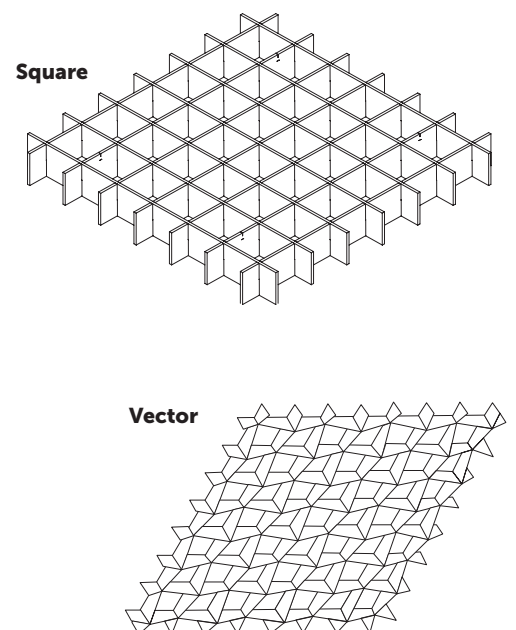
Because the grid is extremely lightweight, suspending the grid only needs four fixings. Making installation quick and easy. Due to the grooves in section A and B, the panels lock together, creating a detailed grid like pattern whilst providing high absorption.



ACOUSTIC PERFORMANCE ☺))



Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Direct Fix to Ceiling	2.2	4.0	3.3	4.0	4.4	4.5	1.40
200mm from Ceiling	1.5	2.5	3.1	4.1	5.0	5.4	1.30



POLYSORBA® SCREENS

POLYSORBA® SCREENS allow you the freedom of choice for design and installation. With the screens having flexibility of being anchored to the floor, free standing or suspended from the ceiling. Our screens improve room acoustics and separate areas, whilst maintaining light and atmosphere.

SPECIFICATION

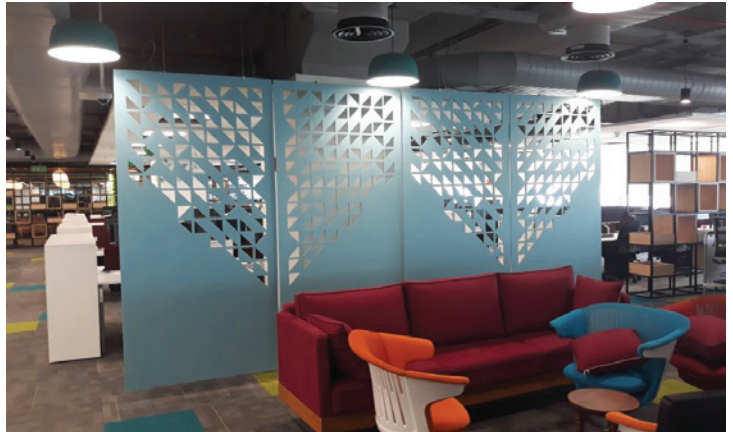
DESIGN: Cone, Fizz, Golf, Samoa, Static

THICKNESS: 12mm & 24mm (+/- 2mm)

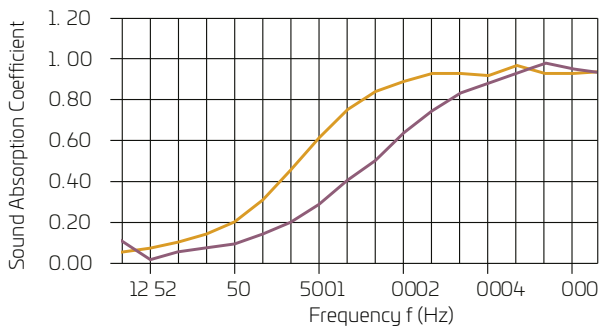
WEIGHT: 12mm = 2900g/m² & 24mm = 4800g/m²

NOISE REDUCTION COEFFICIENT (NRC):

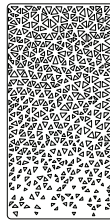
12mm = NRC 0.55 & 24mm = NRC 0.75



ACOUSTIC PERFORMANCE)))

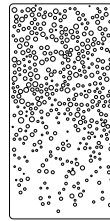


SHAPES AND SIZES



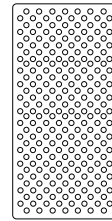
Cone

2400mm x 1200mm



Fizz

2400mm x 1200mm



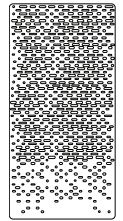
Golf

2400mm x 1200mm



Samoa

2400mm x 1200mm



Static

2400mm x 1200mm

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
12mm thick	0.05	0.10	0.30	0.65	0.90	0.95	0.55
24mm thick	0.10	0.25	0.60	0.90	0.95	0.95	0.75

GUIDE SPECIFICATION

A. General

- All Polysorba® acoustic panels should be installed in accordance with the manufacturer's recommendations.
- All necessary hardware and accessories for the complete job installation to be furnished by the contractor.
- Installation of the panels should not begin until all the wet work, such as plastering, concrete, painting, etc. is completely dry. The panels are designed for storage and installation under standard occupancy conditions from 10 C to 20 C and not more than 75% R.H in an enclosed building.
- The contractor shall be responsible for the examination and acceptance of all surfaces and conditions prior to the acoustical panel installation.

B. Product

- Install Polysorba® Wall / Tiles / Baffle / Rafts / Grid Baffles / Screens using the manufacturer's recommended installation method
- The Polysorba® panels to be 12mm / 24mm thick
- The Polysorba® panel size to bemm long xmm wide inshape
- Finish: The Polysorba® panels to be in (TH....) Soundsorba standard PET colour.

C. Supplier

- POLYSORBA® Eco-friendly acoustic products as supplied by Soundsorba Ltd
27-29 Desborough Street, High Wycombe, Bucks HP11 2LZ United Kingdom.
TEL: +44(0) 1494 536888 EMAIL: info@soundsorba.com www.soundsorba.com

Prices and Conditions of Sale

Our standard terms and conditions (copy available on request) apply to all orders. Since Soundsorba Limited exercise no control over the use of its products, no legal responsibility is accepted for any application of their products. We reserve the right to change specifications without notice as our policy is one of continuous improvement.
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