

category	sound absorber
description	profoam
part code	GRG500-GRG585



GRG500 RANGE PROFOAM optimises the performance and appearance of conventional acoustic foam which is the most cost-effective approach to controlling interfering reflections and noise.

This new 'nestable' profile utilises a Variable Depth Air Cavity (VDAC) to strategically space most of the foam away from the mounting surface for optimum absorption efficiency and economy.

Advantages

- Nestable – one size usually fits all
- Extra layers can be added at a later date
- Spaces most of the foam away from the surface for optimum absorption
- Can be used as a design element
- Melamine white version is Class 0 Fire Rated

Application and use

There are three aspects of conventional foam that can be optimised:

1. Conventional flat-backed wedge and convoluted foams are applied directly to the mounting surface, where the acoustic particle velocity is zero. Since no absorption can occur at zero particle velocity, a significant portion of solid foam is wasted.
2. To provide appropriate absorption coefficients, conventional foam is available in several thicknesses. If an application requires additional absorption at a later date, the existing foam must be removed and a panel of greater thickness applied.
3. Conventional foam has limited interior design application because of its 'industrial' appearance and potential safety limitations.

The ProFoam Solution

1. ProFoam incorporates an innovative, attractive, and universal profile to space most of the foam away from the surface for optimum absorption. Since ProFoam is nestable, one size generally fits all applications.
2. Additional absorption can be achieved at a later date by simply adding extra nestable layers to form a thicker stack.
3. ProFoam's unique attractive shape allows it to be used as a design element. When formed from fire retardant Melamine, ProFoam can be used in all spaces that require Class 0 fireproof interior finish treatment.

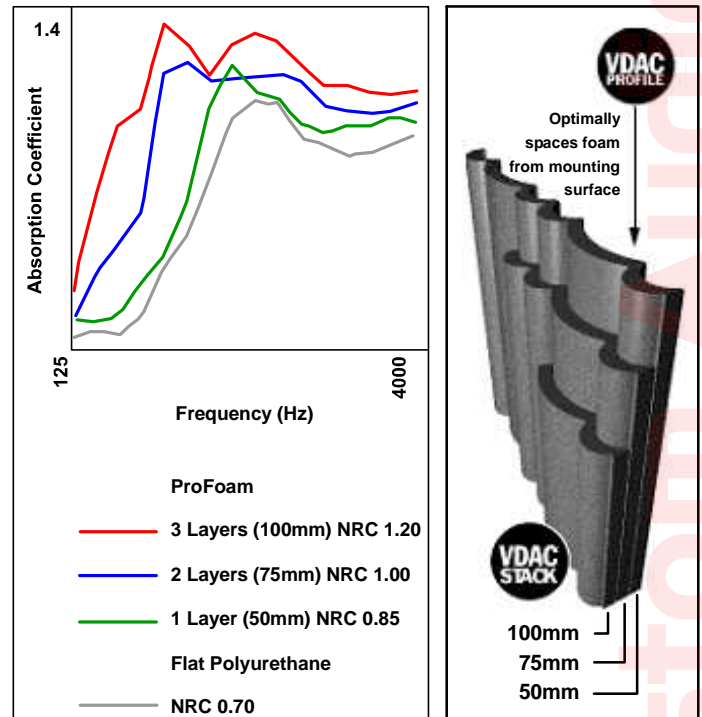
Installation

ProFoam is quick and easy to install. Simply apply clear silicone adhesive to the ridges that contact the mounting surface. Hold ProFoam in place until the adhesive cures. Alternatively we supply a clear spray adhesive which is also ideal if you wish to fabric upholster these panels yourself.

Specification

Product	GRG500-GRG585 Profoam
Nominal size	1200mm x 600mm x 50mm
Colours	polyurethane dark grey / melamine white
Fire rating	melamine white (class0 fire rated version)

Acoustic Performance



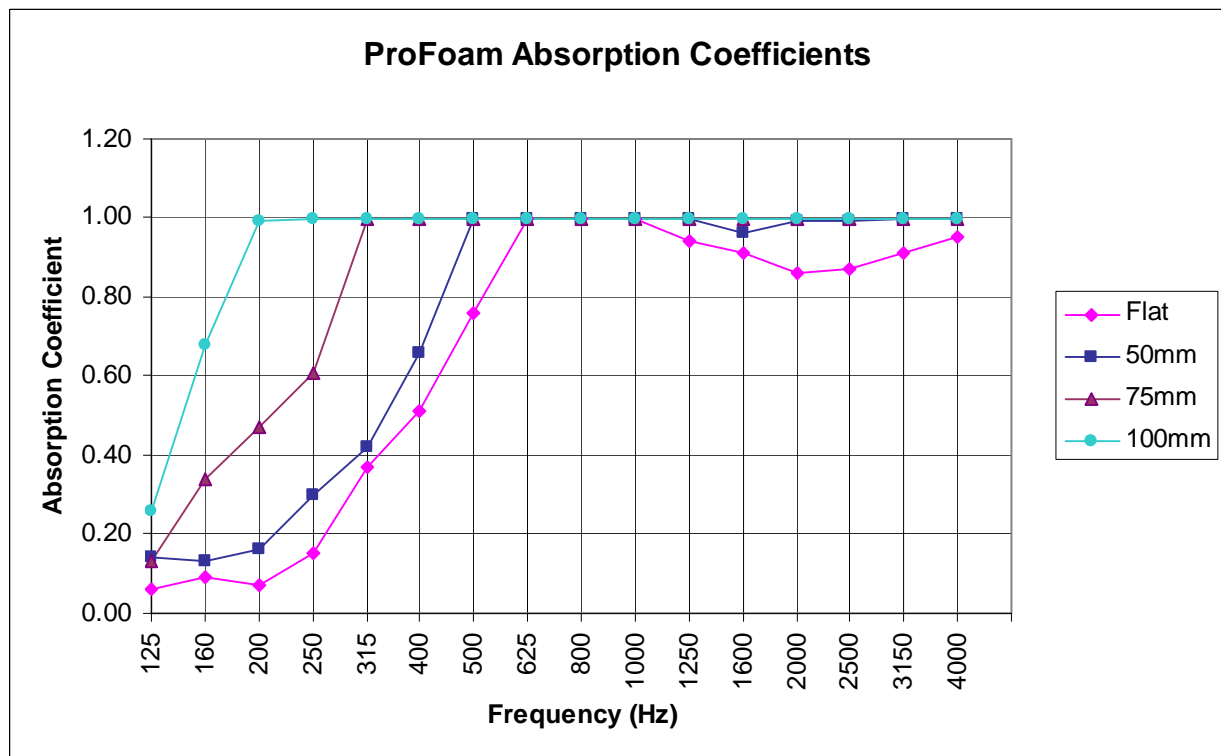
ATTENTION: When handling and installing white melamine-based foams care should be taken to ensure hands are thoroughly washed and clean first; it is preferable to wear clean gloves.

Product - ProFoam

Part code	Description	Size	Quantity
GRG500	Polyflex Grey	300mm x 300mm	Box of 12
GRG510	Polyflex Grey	300mm x 300mm	Box of 24
GRG520	Polyflex Grey	600mm x 600mm	Box of 6
GRG530	Polyflex Grey	600mm x 600mm	Box of 12
GRG540	Polyflex Grey	1200mm x 1200mm	Box of 6
GRG550	Polyflex Grey	1200mm x 1200mm	Box of 12
GRG560	Melaflex White	300mm x 300mm	Box of 12
GRG565	Melaflex White	300mm x 300mm	Box of 24
GRG570	Melaflex White	600mm x 600mm	Box of 6
GRG575	Melaflex White	600mm x 600mm	Box of 12
GRG580	Melaflex White	1200mm x 1200mm	Box of 6
GRG585	Melaflex White	1200mm x 1200mm	Box of 12

ABSORPTION

VDAC technology provides minimum point of contact with the mounting surface, thus enabling most of the foam to be positioned away from the wall for optimum absorption. Unlike conventional foams that are applied in a fixed thickness, additional absorption can be achieved by simply stacking new layers on top of the existing ProFoam.



Figures relating to above graph

	Frequency (Hz)															
	125	160	200	250	315	400	500	625	800	1000	1250	1600	2000	2500	3150	4000
Flat Polyurethane	0.06	0.09	0.07	0.15	0.37	0.51	0.76	1.00	1.00	1.00	0.94	0.91	0.86	0.87	0.91	0.95
50mm Profoam	0.14	0.13	0.16	0.30	0.42	0.66	1.00	1.00	1.00	1.00	1.00	0.96	0.99	0.99	1.00	1.00
75mm Profoam	0.13	0.34	0.47	0.61	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100mm Profoam	0.26	0.68	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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