

## SORBERFOAM™ GC

# combustion modified acoustic foam with glass cloth facing

Sorberfoam™ GC acoustic insulation is the next generation of combustion modified, flexible acoustic foams, laminated with a durable, fire-rated glass cloth surface covering – 'GC'.

In conjunction with leading laboratories and test facilities, Pyrotek has formulated and developed Sorberfoam, by controlling the cell size, porosity, density and the flow resistivity throughout its cell structure. Traditional polyurethane foams often break down through hydrolysis (foam rot) under hot, humid and acidic conditions. Sorberfoam is engineered to resist degradation or foam rot.

The glass cloth facing - 'GC', is thermally bonded to the insulation base - 'Sorberfoam'. The inherent fire and thermal properties of the 'GC' facing make the product suited to areas where high temperature and abrasion are experienced. The facing also provides additional protection to the foam from mechanical stress and dirt, oil and liquid ingress. 'GC' facing is offered in 2 colours – grey and black.

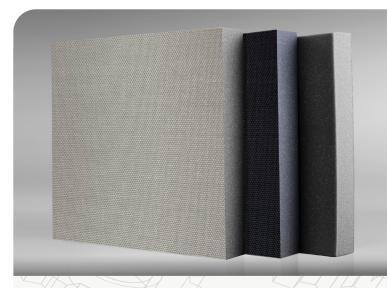
Sorberfoam GC offers an alternative to mineral fibre products that tend to shed fibres during application and lose thickness over a period of time, resulting in a gradual reduction in its noise absorption properties.

Sorberfoam GC is available with or without a self-adhesive backing and is easy to cut and install. Pyrotek also offers a pressure-sensitive adhesive backed 'joining tape' with a matching 'GC' face, besides a range of other mechanical fastening accessories.

## **SPECIFICATIONS**

Colours	Grey and black (additional colours available on request depending on MOQ)
	Available in 15, 30, 60 m rolls  Other roll lengths and sheet sizes also available  (*Available with pressure-sensitive adhesive backing)
Available	Minimum order quantities apply
	Thicknesses of 6, 12, 25, 50 mm
	1.27 m usable width (untrimmed)

<sup>\*</sup>Recommend product to be supplied in sheets to reduce excessive creasing.



# applications

- Engine rooms in boats under CE Marine Survey
- Power generation units
- Containerised generator sets
- Additional thermal insulation for air-conditioning
- Engine compartments and firewalls of cars, boats, trucks, buses and construction machinery
- Machinery and equipment enclosures
- Pool and spa motor enclosures
- · Whitegoods industry

## features

- · Does not shed irritating fibres
- · Hydrolysis (foam rot) resistant
- Tough, durable facing, resistant to liquids, dusts and sprays
- Low spread of flame surface
- Self-extinguishes upon flame removal
- Easy to cut, adhere or mechanically fasten
- No ozone-depleting substances generated during manufacture, free from formaldehyde and phenolic resins
- Product available in thicknesses from 6 to 100 mm
- Available with self-adhesive backing for ease of install
- Roll lengths typically 15, 30 and 60 lineal metres. Other roll lengths and sheet sizes also available
- Matching joining tape 'Tape GC' available
- Seal joins with reinforced tape to eliminate water and dust penetrations







## PRODUCT SPECIFICATIONS

Standard thickness (mm)	Density (kg/m³)	Roll length (lineal m)	Width (mm)	Thermal conductivity (W/mK)	Operating temperature range (°C)
6	- 28	60		0.033**	-40 to +90 Continuous -40 to +110 Intermittent
12		60	1270*		
25		30			
50		15			

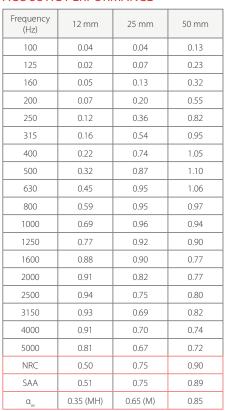
Tolerances: Length: -0 to +50 mm: Width: -0 to +5 mm: Thickness: ±2 mm: Density: ±5%

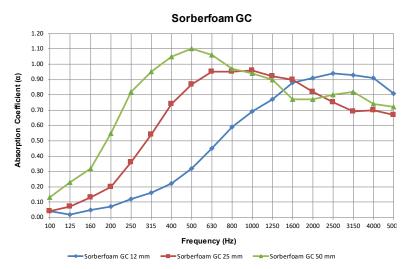
All above products are available with pressure-sensitive adhesive backing. Under extreme temperature and humidity conditions, air flow or where the substrate surfaces cannot be free from contaminants, mechanical fixing will be required. For all inverted installations including ceiling installations, mechanical fixing must be done in addition to pressure sensitive adhesive. Please consult your local Pyrotek representative for more information.

### **MATERIAL PROPERTIES**

Test method	Index	Report no.	Results	Description
UL94	After flame time ≤ 2 seconds	Report No. 13513JY7	HF-1**	Horizontal burn test for foam materials. Compiles.
FMVSS-302	Burn rate - mm/min (LOI)	Report No. 14713JY1	Self extinguishing	Automotive burn rate test. Complies.

### **ACOUSTIC PERFORMANCE**





Tested to ISO 354:2003 at University of Canterbury, New Zealand Report Number: 285, 286 & 287

For further information and contact details, please visit our website pyroteknc.com





<sup>\*</sup>Supplied untrimmed - means some surface coverings such as foils, film or fabric may overhang the ordered useable width.

<sup>\*\*</sup>Polyurethane handbook: Chemistry, Raw Materials, Processing, Application, Properties 2nd edition.

For plain foam only
\*\*Result applies to 12 mm thickness.