

Advantages

- Excellent thermal and acoustic insulation.
- Fire and temperature resistant.
- Chemically inert.
- Cost effective and easy to install.
- Vermin and rot proof.
- Non hydroscopic.

Applications

Wilhams GF glass bonded slabs are ideal for a wide range of building and industrial applications. A highly versatile material with an extensive listing of applications such as acoustic ceilings, partition panels, walls, floors, roofs, ductwork and industrial enclosures. Also, thermal insulation for boilers, heat exchangers, plant, tanks and pipes. Wilhams GF glass bonded slabs can be flat or curved to suit requirements.

Description

Wilhams GF glass bonded slabs are manufactured from glass fibres bonded with a thermo setting resin into a semi rigid slab.

Facing and Coverings

Wilhams GF glass bonded slabs are available in a wide range of coverings and facings; a brief selection of coverings and facings available include:

- Class 'O' foil facing.
- Glass tissue scrim 60 gms/m² (black and white).
- Glass cloth 200 gms/m² (black and white).
- Melinex polyester film.
- Self adhesive backing.
- Ceramic paper.

Physical Information

DIMENSIONS

Standard slab sizes are: 1200 x 600mm.

Standard slab thicknesses are: 25, 50, 75 and 100mm.

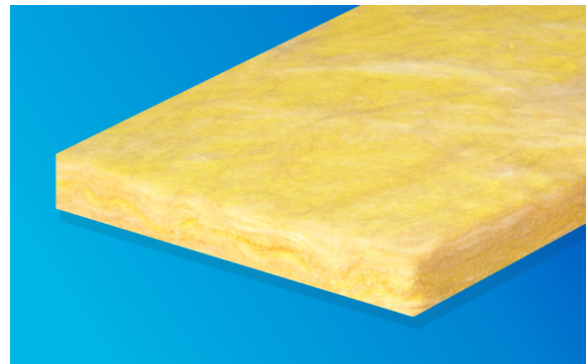
Standard slab densities are: 16, 32, 48 and 64kg/m³.

Notes: Density of 96kg/m³ is a special order.
Non standard slab sizes and thickness are available upon request.

Technical Information

Wilhams GF glass bonded slabs conform to the following specifications:

- BS 476 Part 4 – Non combustible
- BS 476 Part 7 – Class 1
- UK Building Regulations – Class 'O'



Operating Temperature

The slab fibre has a limiting temperature of 230°C, but the resin is affected at temperatures in excess of 80°C. In some instances higher temperatures can be tolerated

Thermal Conductivity

W/mK	Mean Temp. °C					
	10	25	50	75	100	125
	0.030	0.032	0.035	0.039	0.044	0.049

Acoustic Performance

Noise absorption is expressed as a factor between 0 and 1.0, the more sound that a surface absorbs the higher the coefficient. The composition of the GF glass bonded fibres makes them ideal for use as sound absorbers due to the high coefficients over a wide range of frequencies.

Sound Absorption Coefficients (BS 3638 1987)

Density (Kg/m ³)	Thickness (mm)	Frequency (Hz)					
		125	250	500	1k	2k	4k
16	50	0.34	0.31	0.72	0.90	0.94	0.98
16	100	0.63	0.99	1.00	1.00	1.00	1.00
32	25	0.13	0.33	0.61	0.85	1.00	1.00
32	50	0.15	0.50	1.00	1.00	1.00	1.00
32	75	0.39	0.66	0.92	1.00	1.00	1.00
48	25	0.10	0.32	0.68	0.92	1.10	1.28
48	50	0.29	0.84	0.88	1.00	1.00	1.00
48	75	0.32	0.69	0.92	1.00	1.00	1.00
48	100	0.96	1.00	1.00	1.00	1.00	1.00
64	12.5	0.05	0.1	0.35	0.60	0.75	0.85
64	25	0.11	0.33	0.68	0.97	1.06	1.03
64	50	0.30	0.80	1.00	1.00	1.00	1.00
96	50	0.40	0.68	1.15	1.05	1.10	0.97

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