

Technical Data Sheet

Graphex

Description:

Graphex is a premium product for the insulation of timber-framed, steel-framed and masonry buildings. The addition of graphite to expanded polystyrene (EPS) creates a product that offers one of the most effective forms of interior insulation available.

Compared to standard EPS, Graphex uses fewer raw materials during processing without reducing insulation performance. This makes Graphex one of the most eco-efficient choices for insulation.

The unique matrix structure of Graphex gives exceptional rigidity and strength. Graphex has a well-regarded reputation as a reliable wall insulation product.

Typical Use:

- Installed as an overlay to masonry buildings
- Used to make cavity battens
- As a substrate over timber/steel framed buildings

Expectation:

The unique matrix structure of expanded polystyrene (EPS) creates block rigidity. An inert, rigid foam product EPS/Graphex does not settle over time, thus ensuring the R-value for the life of the building.

Technical Data:

Typical thicknesses:	50-100mm
Declared Thermal Resistance R-Value (m ² K/W)	50mm - R1.56 60mm - R1.88 70mm - R2.19 80mm - R2.50 90mm - R2.81 100mm - R3.13
Density:	18kg/m ³
Compressive strength at 10% deformation	105KPA (AS2498.3)

(min):	
Cross breaking strength:	200KPA (AS2498.4)
Determination of flame propagation surface ignition: <ul style="list-style-type: none"> - Medium flame duration (max) - Eighth value: 	2 sec (AS2122.1-1993) 3 sec (AS2122.1-1993)
Fire Behaviour <ul style="list-style-type: none"> - Spread of Flame Index - Smoke Developed Index 	0 (AS2122.1-1993) 5 (AS/NZS 1530.3:1999)
Dimensional stability of length, width & thickness (max) at 70° for 7 days	1% (AS2498.6)
Rate of water transmission (max) measured parallel to rise at 23°C	520mg/m ² s (AS2498.5)

Surface Preparation:

If the substrate has been left exposed to UV / sunlight for more than two weeks, dust and dirt may build up on the surface, the surface may also discolour (yellow) you must remove all surface dust, oxidation, and other contaminants to reveal fresh polystyrene. Use a rasp or a stiff broom to prepare the substrate

Application:

Check should be made using a straight edge to ensure the wall is flat, plumb and true. Any irregularities should be taken out by straightening using a rasp.
The Render coating is not designed to straighten deviations which exceed the specified Resene Construction Systems Render System thickness.

Environmental and Safety:

Ensure styrene does not enter waterways. Contain in bags to ensure loose material is not blown away. There are currently many locations around the country that provide access to recycling services. Many of these recycling providers also offer pick up and drop off services, to ensure you can recycle hassle-free. They are also committed to environmentally sound recycling processes and ensuring that styrenes can be recycled and reused many times over.