

# FIREPRO CENTABUILD

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## Bradford™ Insulation

### Supertel™ Glasswool (Supersedes Rigid)

### Data Sheet

#### Product Description

Bradford Supertel Glasswool is made from a random felting of glasswool bonded with a thermosetting resin. The resulting high density insulation is a light golden colour with high compression resistance and excellent thermal performance.

#### Applications

Bradford Supertel Glasswool has been designed as a thermal and acoustic lining for all air conditioning duct work. It provides ease of handling and excellent resistance to damage so that both during and after installation it

delivers long lasting performance.

Detailed installation instructions for Supertel are available from all Bradford sales offices.

#### Standard Sizes and Packaging

| Thickness (mm) | Size (mm)   | Form    | Items/Pack |
|----------------|-------------|---------|------------|
| 25             | 15m x 1500  | Blanket | 1          |
| 25             | 15m x 1200  | Blanket | 1          |
| 25             | 2400 x 1200 | Board   | 10         |
| 38             | 10m x 1500  | Blanket | 1          |
| 38             | 10m x 1200  | Blanket | 1          |
| 38             | 2400 x 1200 | Board   | 8          |
| 50             | 10m x 1500  | Blanket | 1          |
| 50             | 10m x 1200  | Blanket | 1          |
| 50             | 2400 x 1200 | Board   | 5          |
| 75             | 7.5m x 1200 | Blanket | 1          |
| 75             | 2400 x 1200 | Board   | 4          |
| 100            | 2400 x 1200 | Board   | 2          |

Note: Not all products available as stock items. Contact your Firepro Insulation office for stock availabilities, minimum order quantities and lead times.

Standard packaging is a polythene bag. Nominal weight per 25mm thickness is 0.80kg/m<sup>2</sup>.

#### Factory Applied Facings

Standard factory applied facings are available. Various grades of Thermofoil as well as black or plain glass tissue can be adhered to Supertel

to meet the needs of the application.

#### Maximum Service Temperature

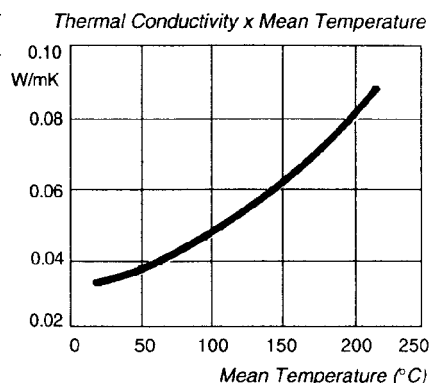
Maximum service temperature: 350°C

# Supertel™ Glasswool (Supersedes Rigid)

## Thermal Conductivity

0.032W/mK at 20°C mean

The thermal conductivity of Supertel Glasswool varies with the mean temperature of the insulation as shown in the graph. The curve is based on measurements made in accordance with AS2464 Parts 5 and 6.



## Fire Resistance Properties

When tested in accordance with AS1530 Part 3-1989, Supertel Glasswool has the following fire indices:

|                 |   |
|-----------------|---|
| Ignitability    | 0 |
| Spread of Flame | 0 |
| Head Evolved    | 0 |
| Smoke Developed | 0 |

## Corrosion Resistance

Supertel Glasswool is faintly alkaline and will not corrode steel. To maintain this condition, protection must be provided against contamination from external sources.

When tested in accordance with BS3958 Part 5-1986, Bradford Supertel Glasswool has a pH of 7.5-8.0.

## Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for four days results in moisture absorption of less than 0.2% by volume.

If the insulation becomes wet, full thermal efficiency will be restored on drying out.

## Sound Absorption

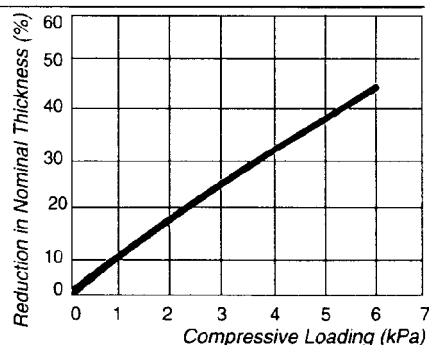
Bradford Supertel Glasswool exhibits the following sound absorption coefficients when tested in accordance with AS1045-1971 'Measurement of

Absorption Coefficients in a Reverberation Room' (Mounting No. 4-Laid flat on floor):

| Thickness (mm) | Facing          | Frequency (Hz) |      |      |      |      |      |      |      |
|----------------|-----------------|----------------|------|------|------|------|------|------|------|
|                |                 | 125            | 250  | 500  | 1000 | 2000 | 4000 | 5000 | NRC  |
| 50             | Nil             | 0.27           | 0.75 | 1.12 | 1.12 | 1.07 | 1.04 | 1.03 | 1.01 |
| 50             | Perforated Foil | 0.39           | 0.72 | 1.14 | 1.19 | 1.05 | 0.98 | 0.90 | 1.02 |
| 75             | Nil             | 0.52           | 0.94 | 1.24 | 1.13 | 1.06 | 1.09 | 1.02 | 1.09 |

## Compression Resistance

Bradford Supertel glasswool is a resilient insulation material which readily recovers to its nominal thickness after the removal of a normal compressive load. When tested in accordance with ASTM C165-1983 'Measuring Compressive Properties of Thermal Insulation', Supertel Glasswool compresses under load as shown in the graph.



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