



# GUARDIAN INSULATION SOLUTIONS

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## GIS BT40 BLACK TISSUE 1 SIDE

**GIS BT40** is manufactured from ECOSE rock slab 40kgm<sup>3</sup> nominal density. The standard product is supplied faced with black glass tissue on one side in various thicknesses of slab.

### APPLICATION

**GIS BT40** is used for a wide range of fire and acoustic insulation applications in buildings where it is protected from external weather.

### DURABILITY

**GIS BT40** is odourless, non-hygroscopic, rot proof, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

### ENVIRONMENTAL

Guardian Insulation Solutions Environmental policy is designed to reduce waste and reduce our carbon footprint. All products used are chosen for helping us, as a company, to achieve this goal. The KNAUF INSULATIONS ECOSE mineral wool slab meets these requirements. The ECOSE technology used is the first organic binder in the UK for mineral wool. The ECOSE slabs are free from CFCs, HCFCs and contain no other material elements which have ozone depletion potential. Thus they exceed the requirements of BREEAM entering a classification of ZERO ODP as well as ZERO GWP. Where low environmental impact is a key design consideration these products help achieve this goal.

### MOISTURE RESISTIVITY

**GIS BT40** is non-wicking when tested to BS 2972: 1989: Section 12. When exposed to 90% relative humidity at 20° C, **GIS BT40** absorbs less than 0.004% of moisture.

### VAPOUR RESISTANCE

**GIS BT40** has a vapour resistivity of 7.00 MN.s/g.m.

### HANDLING & STORAGE

**GIS BT40** is easy to handle and install, being lightweight and easy to cut to size.

**GIS BT40** is supplied in packs on pallets. For longer term outside storage (stock or site) the pallets should be stored under a secure waterproof covering.

**GIS BT40** should not be left permanently exposed to the elements.

### PRODUCT DATA

**GIS BT40** slab has a thermal conductivity of 0.0350./0.40 W/mK.

**GIS BT40** slab is classified as EUROCLASS A1 to BS EN ISO 13501-1.

### FIRE PERFORMANCE

**GIS BT40** is classified as EUROCLASS A1 to BS EN ISO 13501-1, non-combustible to BS 476: Part 4: 1970 (1984), Class 1 Surface Spread of Flame to BS 476: Part 7 1997 and Class 'O' to the Building Regulations.

### TECHNICAL DATA

**GIS BT40** is manufactured using a core of high density Knauf ECOSE rock slab which has a fire classification of EUROCLASS A1 tested to BS EN 13501-1 this is faced with class O reinforced aluminium foil tested to BS 476 Part 6 when used with rock slab. The finished product is tested and accredited for up to 1 hour to BS EN 1366-4 (BS 476 Parts 6 & 7) independently to achieve high acoustic requirements.

