



# GUARDIAN INSULATION SOLUTIONS

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## GUARDIAN 4 FIRE & ACOUSTIC ULTIMATE BARRIER SLAB

### SERIES 50 ULTIMATE GIS-USB

**GIS-USB** is designed and tested to prevent the spread of fire and smoke in a cavity void in both the vertical and horizontal planes, tested up to 4 hours as well as offering high acoustic reductions.

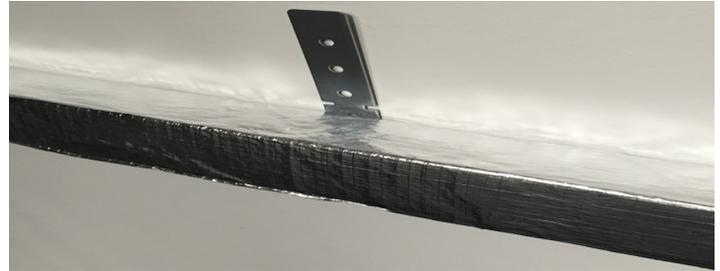
### TECHNICAL DATA

**GIS-USB** 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 4 hours to BS EN 1366-4 (BS 476 Parts 6 & 7) independently to achieve high acoustic requirements. Rebated joints are available along with along with a polymeric core POA.

### APPLICATION DETAIL

**GIS-USB** is a multi application solution for fire & acoustic requirements within the construction envelope. Below are some standard applications but the list is endless please contact our technical team for suitability.

- Gaps between concrete slabs and exterior block or brick walls and rainscreen cladding systems.
- Gaps between internal block timber frame or metsec walls and exterior brick or block walls and rainscreen cladding systems.
- In voids between steel structural beams (RSJ or I Beams) and building structures.
- In voids within ceilings to maintain the integrity of party walls or partitions.
- In voids below raised access floors to maintain the integri-



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- In voids between steel structural beams (RSJ or I Beams) and building structures.
- In voids within ceilings to maintain the integrity of party walls or partitions.
- In voids below raised access floors to maintain the integrity of the partitions on the raised access floors.
- To seal gaps around spandrel panel systems where they meet other structures within the building envelope.
- Fitted between timber joists between floors to meet the fire and acoustic requirements on upgrades.
- Between timber rafters in a roof below thatch to meet the fire requirements and give good acoustics.

**GIS-USB** can be used for 30, 60, 90, 120 and 240 minute fire stop to meet current building regulations as well as meeting Part B acoustic requirements it complies with the needs of approved document L1A-2010 for England and Wales as the Knauf ECOSE





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## ENVIRONMENT

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.

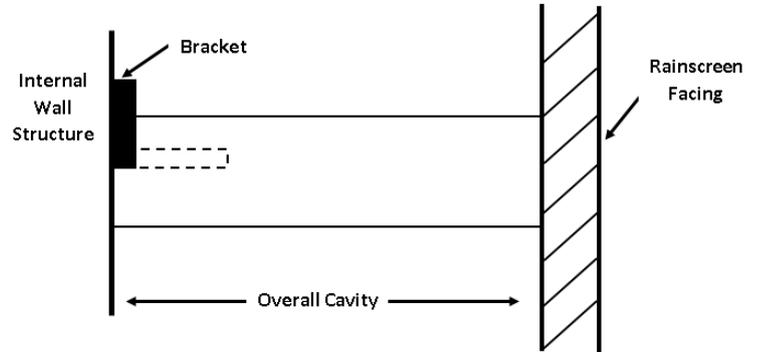
## FITTING

**GIS-USB** is simple to install on site and can arrive pre cut to save site time.

The product must be fitted under compression of 3-5% thus the void size must be measured and then the extra for compression added.

Fixing straps must be fixed 2 per 1200mm length or any shorter cut length these can be built in to the brickwork bent once and fixed mechanically (no plastic fixings or plugs) or bent into a Z-shape and fixed on top of a beam or concrete slab.

All butted joints must be tightly compressed together, any obstructions must be sealed with GIS multi-use Fire & Acoustic mastic to achieve the correct fire seal. In ceiling voids and under raised access floors the slab joints require taping and the GIS acoustic and fire sealant must be used around all edges and any penetrations to ensure a full acoustic seal.



Product Code	Size (mm)	Fire Rating (minutes)	Slabs per Pallet
GUS/040/1200/600	1200 x 600 x 40	30	100
GUS/050/1200/600	1200 x 600 x 50	45	90
GUS/060/1200/600	1200 x 600 x 60	60	70
GUS/075/1200/600	1200 x 600 x 75	120	60
GUS/100/1200/600	1200 x 600 x 100	240	42

**GIS-UBS** is also available on some sizes in 1200 x 900 and 1200 x 1000mm (non ECOSE) dependant on stock and volume POA.

**GIS-UBS can be cut to site specifications POA.**

## Accessories

Product Code	Description	Size
STRAP/225	225mm Fixing Strap	Each
STRAP/325	325mm Fixing Strap	Each
STRAP/400	400mm Fixing Strap	Each
GIAS/310	GIS Fire & Acoustic Mastic	310ml Tube
FOIL/50/45MT	GIS Foil Joint Tape 50mm	45mt Roll
FOIL/75/45MT	GIS Foil Joint Tape 75mm	45mt Roll
FOIL/100/45MT	GIS Foil Joint Tape 100mm	45mt Roll

