



# GUARDIAN INSULATION SOLUTIONS

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## 80HD ACOUSTIC ENCAPSULATED PAD

**GUARDIAN 4 ACOUSTICS 80HD Acoustic Encapsulated Pad** consists of a core of rigid slab made from ECOSE 80kgm<sup>3</sup> mineral wool which is faced on one side, all four edges and returned onto the other side with a bright silver reinforced class O rated aluminium foil then with a black glass tissue lid on the side with the foil return.

### PRODUCT FUNCTION

**GUARDIAN 4 ACOUSTICS 80HD Acoustic Encapsulated Pad** is used to create an acoustic barrier within a building as well as aiding requirements and maintaining a thermal barrier it is used as a ceiling pad within a perforated metal or mineral wool ceiling tile system. Can achieve up to 42dB rating.

### APPLICATION DETAIL

**GUARDIAN 4 ACOUSTICS 80HD Acoustic Encapsulated Pad** can be used to lay in grids to increase the acoustic value and should be placed on top.

**GUARDIAN 4 ACOUSTICS 80HD Acoustic Encapsulated Pad** is laid into a perforated ceiling system being metal, plasterboard or mineral. The pads must be made to fit the exact size of the tray i.e. 595mmx595mm (please sat when placing your order).

### 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.

## GIS DUO SOCK TECHNICAL DATA

The mineral wool used to produce the core of **GUARDIAN 4 ACOUSTICS 80HD Acoustic Encapsulated Pads** is 80kgm<sup>3</sup> ECOSE mineral wool slab which is compatible to BS4:(1984) and the re-enforced aluminium foil facing is classed as class O to BS476 with a water vapour permeability of 0.05 to DIN EN ISO 12572. Standard black glass tissue when applied to ECOSE slab will achieve class 1 part VII to BS476 for surface spread of flame. The pads absorption can achieve an NRC of up to 0.95 application dependant. Complies with BS EN 20354 and BS EN 201490-9 to 42 DB dependant on ceiling. One hour fire rating can be achieved (application dependant) complies with BS476 parts 20-23-8.

Product Ref	Finished Size (mm)
GIS/80HD/015/600/600	600 x 600 x 15
GIS/80HD/018/600/600	600 x 600 x 18
GIS/80HD/025/600/600	600 x 600 x 25
GIS/80HD/030/600/600	600 x 600 x 30
GIS/80HD/040/600/600	600 x 600 x 40
GIS/80HD/050/600/600	600 x 600 x 50
GIS/80HD/015/1200/600	1200 x 600 x 15
GIS/80HD/018/1200/600	1200 x 600 x 18
GIS/80HD/025/1200/600	1200 x 600 x 25
GIS/80HD/030/1200/600	1200 x 600 x 30
GIS/80HD/040/1200/600	1200 x 600 x 40
GIS/80HD/050/1200/600	1200 x 600 x 50

We can also manufacture to any other size and thickness required POA with a metal tray system sizes are usually 595 x 595 i.e. under 600 x 600.

**PLEASE STATE GRID SIZE WHEN ORDERING**

A **polymeric layer** can be added on request

**Absorption co-efficients (S) = Solid Backing**

Thickness	125HZ	250Hz	500Hz	1000Hz	2000Hz	4000Hz
<b>75mm (S)</b>	0.53	1.00	1.00	1.00	1.00	1.00

**Rocksilk Universal Slabs - made with ECOSE technology.**

**Testing to BS EN ISO 345 at SRL (5th,6th) February.**