

43kgm3 Ceiling Pad

Date: 19/01/2021

Reference: 9

Issue: 1

GUARDIAN 4 ACOUSTICS 45kgm3 Ceiling Pad consists of a rigid slab made 45kgm3 ECOSE mineral wool which is encapsulated in a black self extinguishing sealed recycled bag. Other colours such as white, orange, green etc. are available POA.

PRODUCT FUNCTION

GUARDIAN 4 ACOUSTICS 45kgm3 Ceiling Pad are used to upgrade a suspended or fixed ceiling system acoustically. To ensure the ceilings acoustic values are met this product should be used in conjunction with our GUARDIAN 4 ACOUSTIC light and vent boxes.

TECHNICAL DATA

The mineral wool core of GUARDIAN 4 ACOUSTICS 45kgm3 Ceiling Pad is ECOSE 45kgm3 density mineral wool slab made to ISO 9001 and ISO 14001 the material is to fire classification EUROCLASS A1 as BSENISO 13501-1 non combustible. It has a thermal conductivity of 0.035 W/MK. The plastic encapsulation is fire classified as self extinguishing thus it will not propagate the spread of flame and fire.

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.

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STANDARD SIZES AVAILABLE (mm)

500 x 500 x 25	600 x 600 x 100	600 x 600 x 50
500 x 500 x 50	600 x 600 x 125	600 x 600 x 60
600 x 300 x 25	600 x 600 x 150	600 x 600 x 75
600 x 300 x 50	1200 x 600 x 25	1200 x 600 x 100
1200 x 300 x 25	1200 x 600 x 30	1200 x 600 x 125
1200 x 300 x 50	1200 x 600 x 40	1200 x 600 x 150
600 x 600 x 25	1200 x 600 x 50	600 x 600 x 40
600 x 600 x 30	1200 x 600 x 60	1200 x 600 x 75

We can also manufacture any other sizes required for specific contracts P.O.A

Absorption co-efficients (S) - Solid Backing

Thickness	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
25mm (S)	0.10	0.30	0.58	0.79	0.97	1.00
75mm (S)	0.41	0.93	1.00	1.00	1.00	1.00
100mm (S)	0.71	1.00	1.00	1.00	1.00	1.00