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# Product Data Sheet PDS055: Armourcoat Acoustic Pattresses - Mounting Pads

## 1 Product description

Armourcoat Acoustic Pattresses are designed to provide a stable base platform for the fixing of recessed or surface mounted light fittings, recessed speakers, cameras and alarms etc.,

They are fabricated from a 10mm thick fibre reinforced gypsum (Fermacell) which is pre-coated with the Armourcoat Acoustic Basecoat to the same thickness as the Armourcoat Acoustic Base Boards.

The pattresses have a 30mm wide perimeter that is manufactured from a resin modified glass reinforced gypsum and is bonded onto the board face with Armourcoat Bondplast.

The pattresses are fixed into position with screws and Bondplast.

## 2 Dimensions

Armourcoat Acoustic Pattresses are available in the following standard sizes:

200 x 200mm x 27mm

200 x 200mm x 47mm

300 x 300mm x 27mm

300 x 300mm x 47mm

## 3 Custom sizes

There are many situations where either larger or longer pattresses are required. Armourcoat offers a fibre reinforced gypsum panel which has been pre-coated with the Acoustic basecoat to cater for such requirements.

Dimensions are 1200mm x 600mm x 17mm.

This pre-coated gypsum fibreboard can be cut down to any size, square or rectangle, for oversized pattresses or for long strips for use around access hatches or slot lights.

To make up the thickness for the 27mm system use 1 strip of the Fermacell board behind the system.

To make up the thickness for the 47mm system we have cast lengths of glass reinforced gypsum to be used behind the system.

A standard hole cutter is used to create the specific hole size required for the project.

A single sheet of this pre-coated gypsum fibreboard would be sufficient to make eight 300 x 300mm pattresses and therefore this is more cost effective than buying individual pattresses.

## 4 Installation

Armourcoat Acoustic Pattresses are adhered to the substrate using Armourcoat Bondplast in the same way as the Armourcoat Acoustic Base Panels. When installing the pattress it is advisable to drill holes in the four corners and fix the pattress in place with screws to ensure it does not move whilst the Bondplast is setting hard.

The acoustic pattress can easily be drilled and cut using a standard hole saw.

The maximum permissible hole diameter for 200mm pattress is 135mm

The maximum permissible hole diameter for 300mm pattress is 235mm

## 5 Load capacity

We recommend a maximum load capacity for the pattresses as follows:

200 x 200mm pattress - 5 kg

300 x 300mm pattress - 8 kg

Care must be taken to ensure the collective load of the plasterboard, acoustic plaster system and any lights or items suspended from a pattress does not exceed the load capacity for the ceiling which in the case of a metal frame ceiling with plasterboard fixed at 450mm centres is 30kg/m<sup>2</sup>.

(The Bondplast has an adhesive strength onto plasterboard of 0.1N/mm<sup>2</sup> or 10 N/cm<sup>2</sup> and this results in failure of the plasterboard. A 200mm x 200mm pattress would in theory support a load of up to 200kg and this would significantly exceed the 30kg/m<sup>2</sup> loading for a standard plasterboard ceiling)

## 6 Health and Safety

Protective gloves, eye protection and dust masks should be worn at all times when handling or installing all elements of the Armourcoat Acoustic system.

## 7 Storage and shelf life

Armourcoat Acoustic Pattresses should be stored in dry conditions out of direct sunlight. These items do not deteriorate over time and have an unlimited shelf life.

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