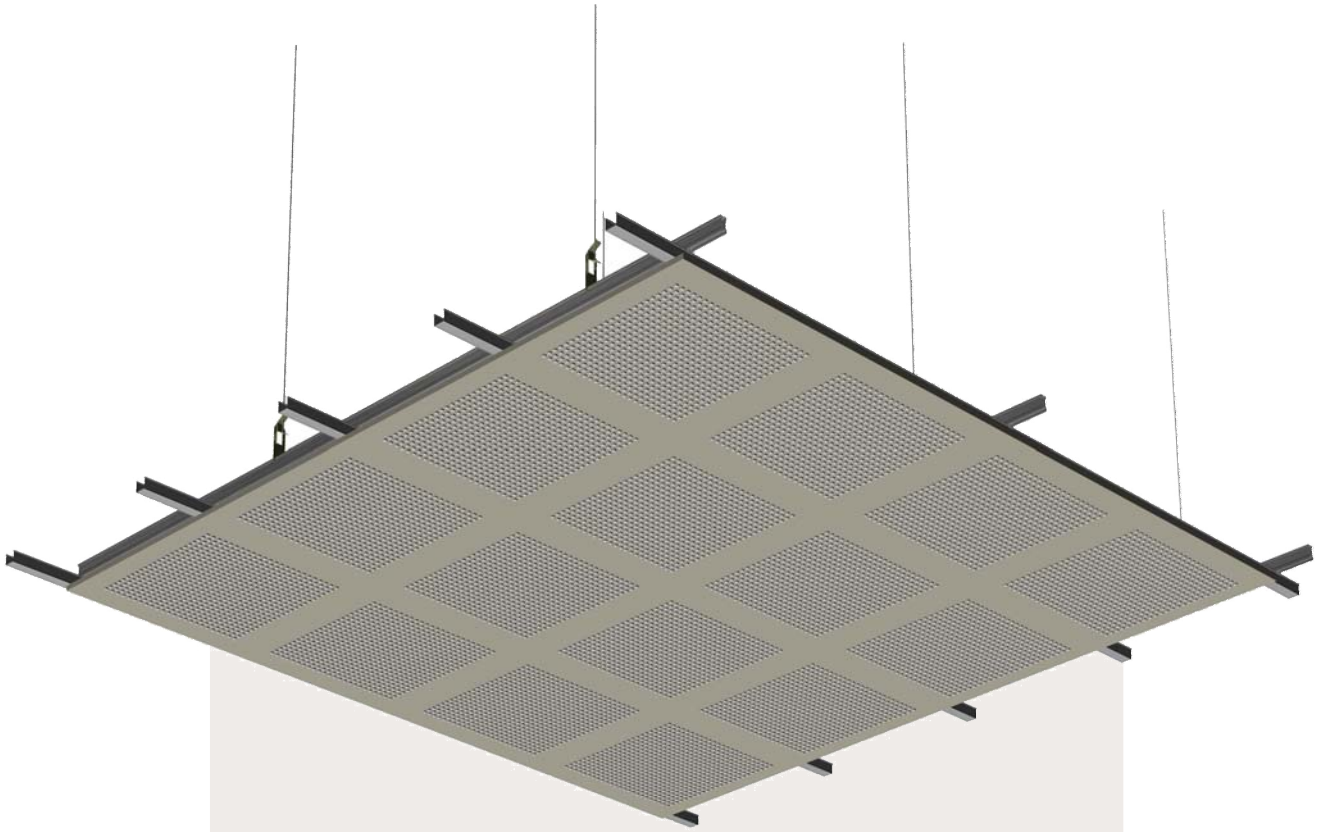


NOISE ABSORBING CEILINGS

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Noise absorbing ceilings are used to control reverberation of sound in commercial high traffic and public areas like foyers, waiting rooms, restaurants, theatres, home theatres, shops, cafes and offices.

The acoustic performance of these ceiling systems is achieved by using **AcoustiShield** combined with insulation.

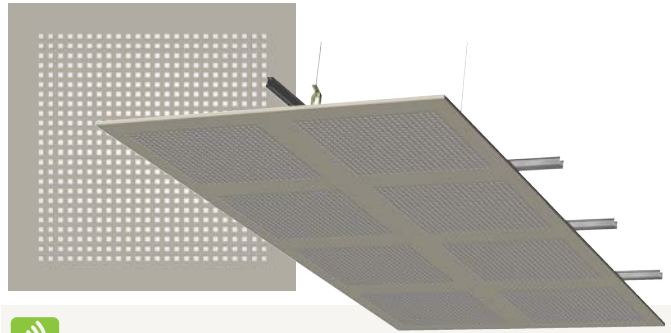
AcoustiShield is a perforated plasterboard providing high acoustic performance. Together with the protective mat glued to the back of the board, the perforations in **AcoustiShield** are designed to absorb sound. The higher the rate of perforation, the higher the sound absorption performance and NRC value.

In addition, **AcoustiShield** creates aesthetically pleasing ceilings as it is available in three distinct perforated patterns – square, round and rectangular. **AcoustiShield** can also be installed in noise absorbing wall systems, especially in media rooms.

[REFER TO SECTION 3.3 FOR MORE INFORMATION ON SOUND ABSORPTION].

LASC1

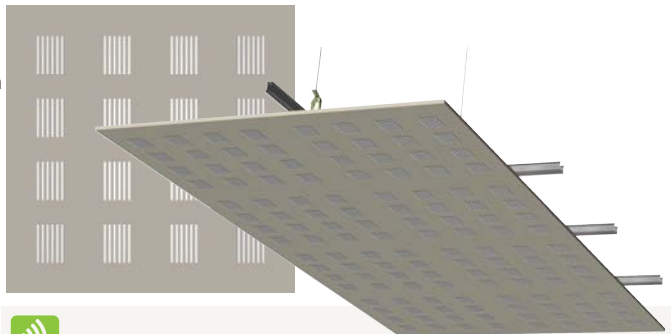
- CEILING LINING:** 1 layer of 13mm **AcustiShield** square pattern (C10 no.8)
- FRAME:** Suspended ceiling frame with furring channels at 600mm centres
- INSULATION:** Minimum 80mm Glasswool Batt



PERFORATION	RATE OF PERFORATION (%)	ACOUSTICS - NOISE REDUCTION COEFFICIENT (NRC)	
10mm x 10mm squares in a grid of 24 x 24	16	0.85	CSTB Laboratories Tested with 100mm plenum

LASC2

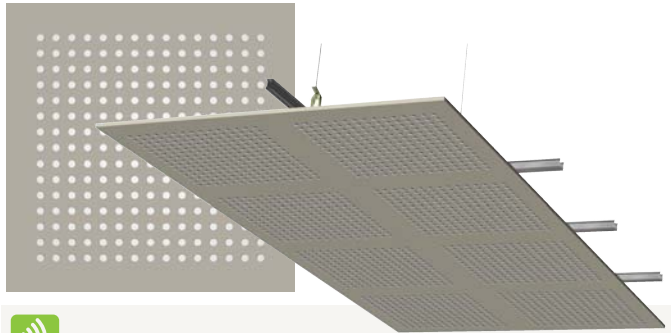
- CEILING LINING:** 1 layer of 13mm **AcustiShield** rectangular pattern (L5*80 no.8)
- FRAME:** Suspended ceiling frame with furring channels at 600mm centres
- INSULATION:** Minimum 80mm Glasswool Batt



PERFORATION	RATE OF PERFORATION (%)	ACOUSTICS - NOISE REDUCTION COEFFICIENT (NRC)	
5mm x 80mm rectangles 6 rectangles in a grid of 4 x 4	10.6	0.75	CSTB Laboratories Tested with 100mm plenum

LASC3

- CEILING LINING:** 1 layer of 13mm **AcustiShield** circular pattern (R15 no.8)
- FRAME:** Suspended ceiling frame with furring channels at 600mm centres
- INSULATION:** Minimum 80mm Glasswool Batt



PERFORATION	RATE OF PERFORATION (%)	ACOUSTICS - NOISE REDUCTION COEFFICIENT (NRC)	
15mm diameter circles in a grid of 15 x 15	11	0.7	CSTB Laboratories Tested with 100mm plenum

GENERAL REQUIREMENTS

Design the ceiling to suit the **AcoustiShield** size in order to minimise the number of joints and create symmetrical patterns.

Fix butt joints on framing members.

AcoustiShield is installed in the same manner as 13mm **MastaShield**. For installation requirements [REFER TO SECTION 4.1.1, 4.1.2 OR 4.4.1].

Do not obstruct perforations during jointing and painting.

Use roller application for paint. Roller application applies a uniform texture over the entire surface and ensures the paint does not contact the glass mat fixed to the back of the plasterboard.



For the best acoustic and aesthetic results:

- › Involve an architect or acoustic consultant when determining the quantity and layout of **AcoustiShield**.
- › Locate lights and other penetrations in non-perforated areas of the **AcoustiShield**.

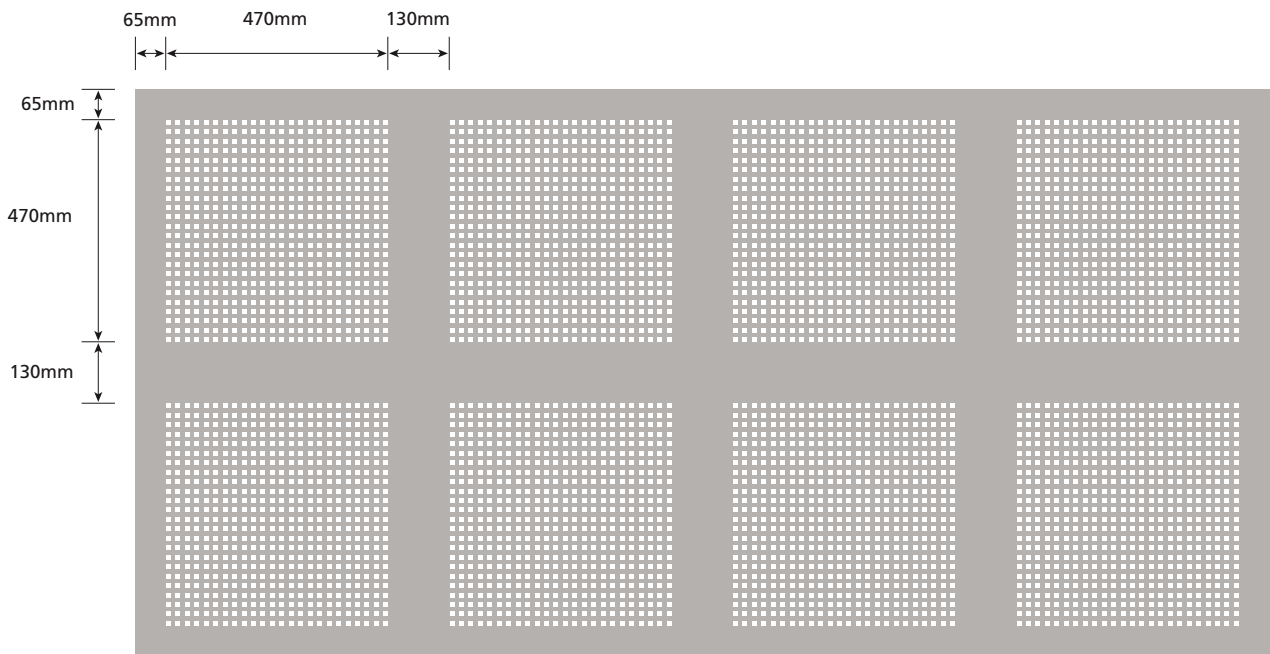


FIGURE 1
AcoustiShield dimensions
 Square pattern - 2400mm x 1200mm x 13mm

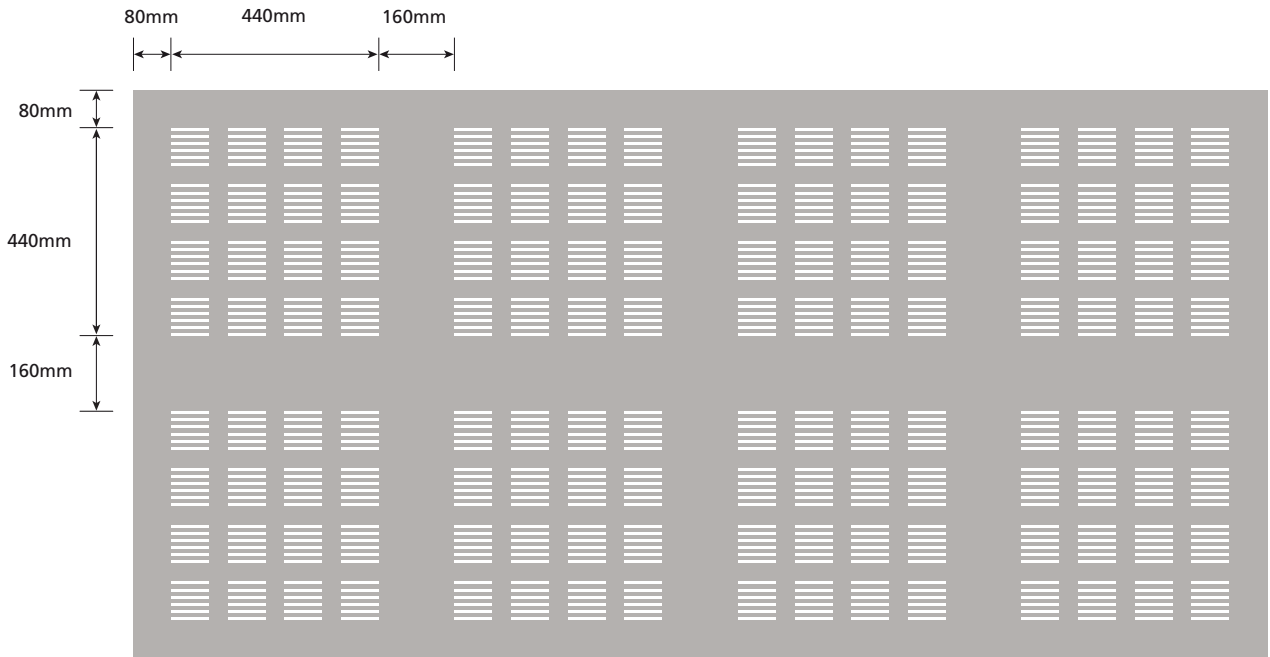


FIGURE 2
AcustiShield dimensions
 Rectangular pattern - 2400mm x 1200mm x 13mm

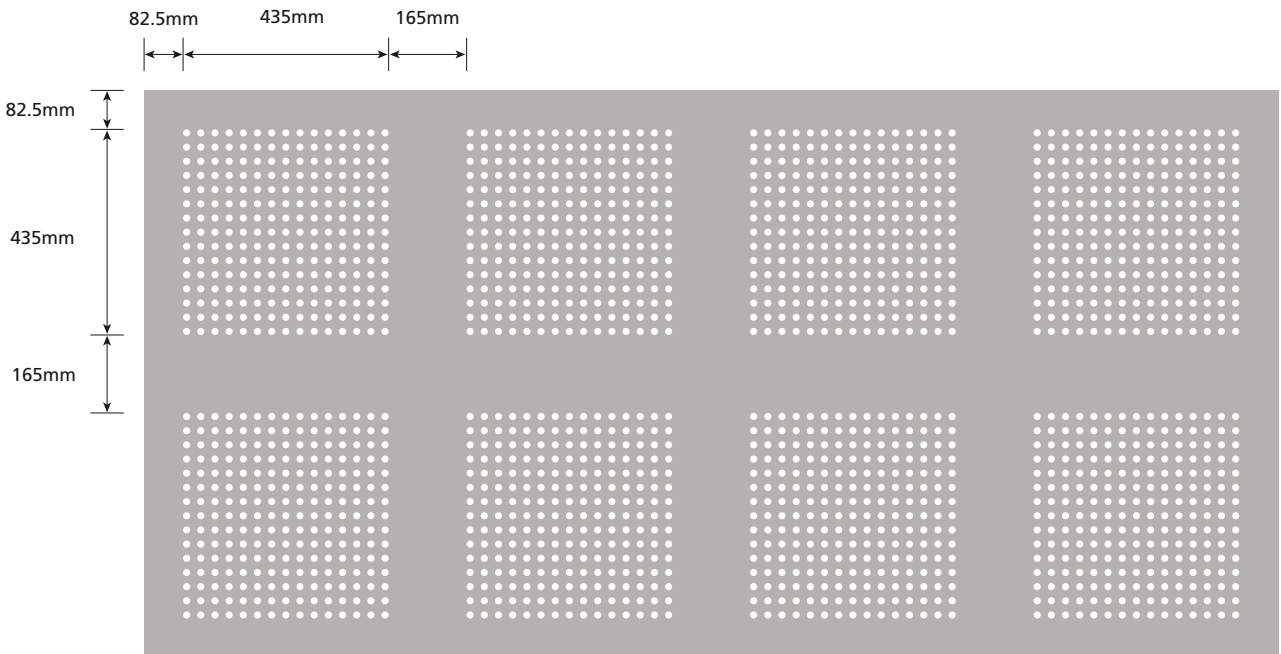


FIGURE 3
AcustiShield dimensions
 Circular pattern - 2400mm x 1200mm x 13mm