

# Isosonic<sup>TM</sup> Platform Floor

## LAMINATED SOUND DEADENING BOARDS

In accordance with F.F.T.5. detail with Floor Type MF1 as given in Robust Standard Detail document

Also in accordance with covering required for Floor Type 1 in Approved Document E 2003

*N.B. Boards to be used with Isoedge Flanking Strip available from your Isosonic Platform Floor board supplier.*

**Board Size: 2400mm x 600mm x 25mm**

**Quantity per pallet: 84 x boards = 120.96m<sup>2</sup>**

**Thickness: 25mm**

**Boards to be stored in dry conditions at all times.**

*Fitting instructions for Isosonic Platform Floor and Isoedge flanking strip to RSD FFT.5 given on reverse side. For RSD requirements for precast concrete floor, screed and ceiling finish see "Separating Floor - Concrete MF1 as given in R.S.D. Document"*

**Thermal**  
**Economics**<sup>TM</sup>  
THERMAL & SOUND INSULATION TECHNOLOGY

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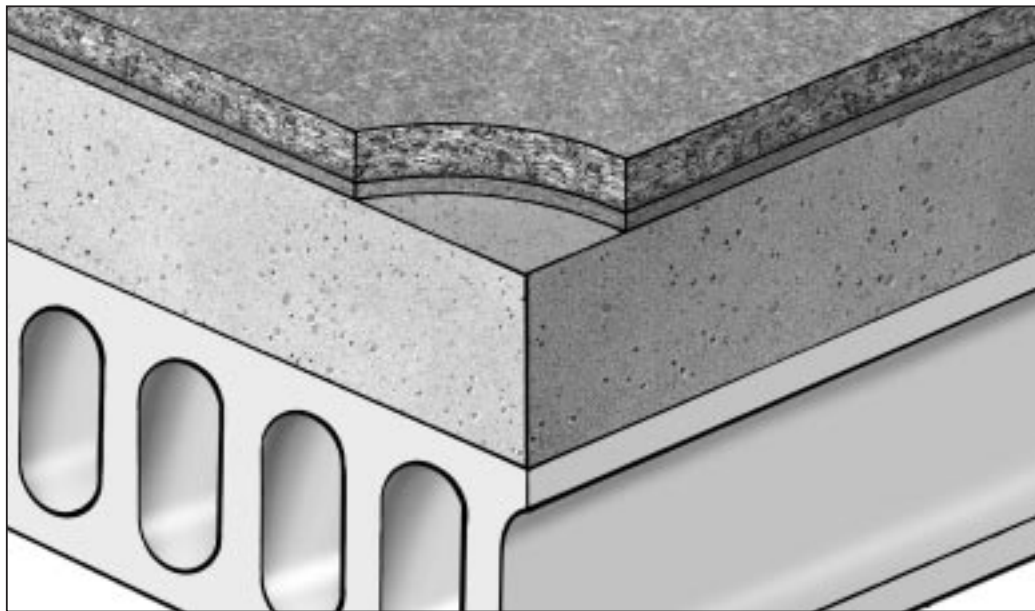
**IMPORTANT-**  
Use only genuine  
ISOSONIC components to  
ensure high sound  
insulation  
performance

# INSTALLATION GUIDE

FOR

## Isosonic Platform Floor™

### LAMINATED SOUND DEADENING BOARDS



## ISOSONIC PLATFORM FLOOR & ISOEDGE INSTALLATION FOR FFT5 IN RSD MF1

For details of required precast concrete floor, screed, and ceiling detail, see "Separating Floor-Concrete MF1" as given in R.S.D. document.

### GENERAL-

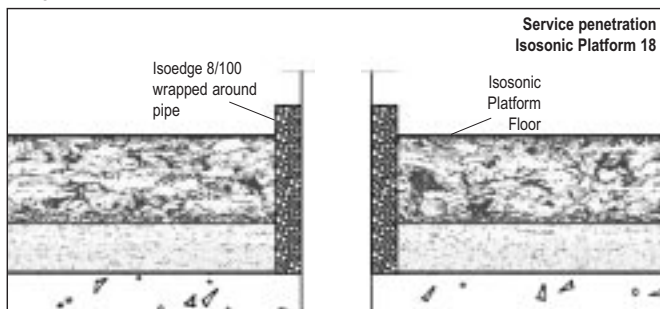
ISOSONIC PLATFORM FLOOR is a 25mm thick laminate board consisting of 18mm tongue and grooved P5 chipboard (top layer) bonded to a 7mm soft board bottom layer. The boards should be used as an overlay only and cannot be used for the purpose of carrying floor loads between joists, columns or any other load bearing members. It is imperative that the boards are installed on a damproof membrane to BS7916 and only when the building is weathertight and dried out (Ref. PASM GPG/Concrete draft 01).

## INSTRUCTIONS

### PREPARATION (Ref. PASM GPG/Concrete draft 01)

All components must be stored under dry conditions at all times. Concrete and sand cement screeds must be fully cured and free from mortar droppings, dust and debris. Always allow the boards to acclimatise by taking them out of the pack and scattering around the rooms in which they are to be used. Boards should be allowed to acclimatise to their usage environment for a minimum of 24hrs before fixing. As with all timber based floors laid on concrete, the concrete floor or screed should be fully covered with a good quality polythene DPM (TO BS7916) before laying the boards. The polythene DPM should be laid over the total area of the floor with minimum 150mm laps at joints and should be dressed up the perimeter walls slightly to prevent all residual moisture in the concrete and or screed affecting the timber floating floor. Pipes penetrating the Isosonic Platform Floor should be wrapped around with Isoedge (see Diag.1).

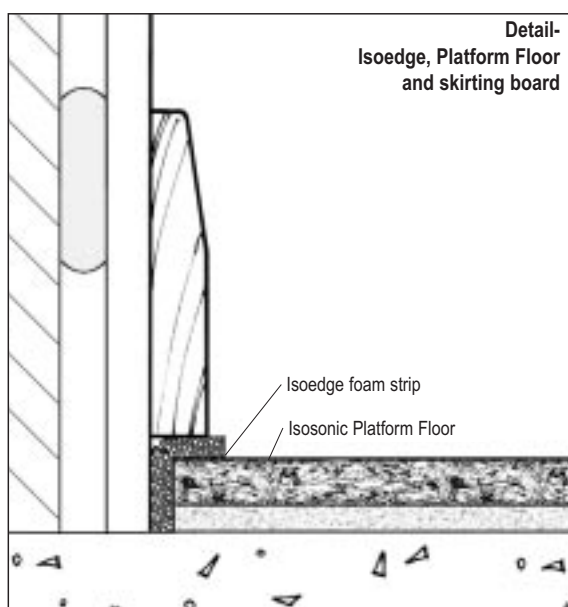
Diag.1



### FITTING ISOEDGE 8/100

- ISOEDGE is an 8mm thick polyethylene foam strip available in rolls 100mm wide x 50m long from your Isosonic Platform 18 supplier.
- The strip has pre-cut fold flaps for ease of fitting under skirting board (see Diag. 2) and a 'high-grab' self adhesive backing strip giving a robust adhesion to the wall.
- Adhere Isoedge to the wall along the entire floor perimeter as shown in Diag.2 by removing the adhesive release paper simultaneously.
- At joints the Isoedge strips should be tightly butted together.

Diag.2



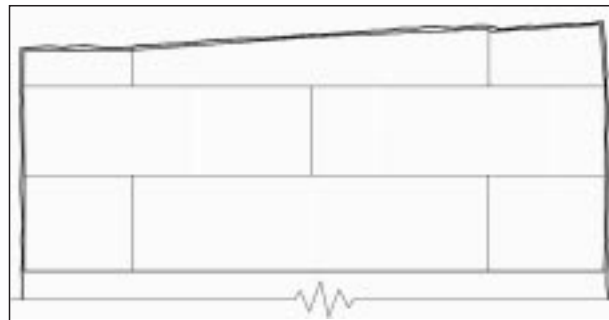
### STRUCTURAL FLOOR

(Ref. PASM GPG/Concrete draft 01) As is generally accepted the level tolerance of the structural floor should be +/- 5mm over a 3m straight edge in accordance with the relevant codes of practice. Ensure that all potential air paths in the structural deck are sealed.

### FITTING ISOSONIC PLATFORM BOARDS

- The Isosonic Platform boards should be fitted on top of the continuous polythene sheet. In general the boards should be laid with long sides parallel to the longest wall in the room. In the case of straight walls the boards can be laid directly against the Isoedge strip. Where the walls are irregular it is advisable to lay the boards in a straight line parallel to the general direction of the wall, but offset from it by approximately half a board width. The remaining gap is subsequently fitted with boards cut to follow (scribed to) the line of the wall and Isoedge strip. Commence laying with a whole board, and use to of-cut from the end of the row to start the next row. (see diagram 3).

Diag.3



**TREATMENT OF EDGES-** At the edge the boards should be fitted against the Isoedge, so that there are no large gaps left between the board edge, the Isoedge and the wall, but without squeezing the foam.

**DILATATIONS-** The boards must be able to expand if buckling is to be prevented, and the compression of the foam perimeter forms the necessary movement joint. Where the distance between the walls exceeds 7 metres, the introduction of interim movement joints should be considered.

### PARTITIONS AND CEILINGS-

(Ref. PASM GPG/Concrete draft 01) All masonry load bearing partitions, masonry non-loadbearing partitions and ceiling linings are constructed prior to the installation of the Isosonic Platform Floor. This procedure allows for the installation of the Isoedge perimeter flanking strip to isolate the Isosonic Platform Floor in each area. Lightweight (timber and metal stud) non-loadbearing partitions can be constructed off the Isosonic Platform Floor.

### TREATMENT OF CONNECTING

**DOORWAYS-** When it is not possible or practical to continue the laying process under connecting openings, it is recommended to form a single foam width (8mm) dilatation on the centre line of the opening. The dilatation can be covered with a threshold piece or proprietary floor dilatation cover strip. (see Diags. 4 and 5.)

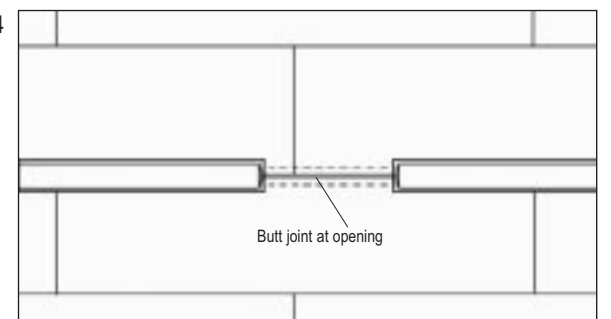
**GLUING-** It is advisable to lay the boards dry and to glue the joints only once the fitting around the edges has been completed. For best results and speed of application, use Floorbond PA adhesive supplied by Thermal Economics Ltd.

The nozzle of the FLOORBOND squeeze bottle has a special patent shape, which facilitates fast and full filling of the joints without wastage. The glue should be allowed to set for a minimum of 24 hours before walking or loading the floor.

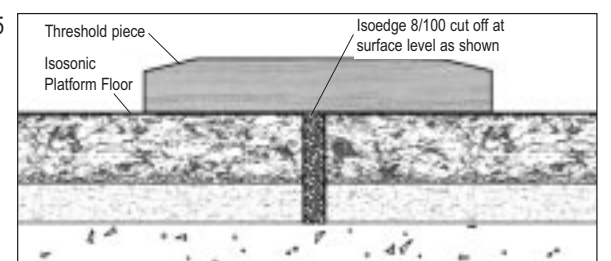
**SERVICE PENETRATIONS-** Service penetrations should be made to the minimum size to allow for the free thermal movement of pipes and ducting (see Diag.1)

**SKIRTINGS-** To achieve optimal sound insulation performance and to comply with the FFT.5 detail for a floor type MF1 as given in the RSD document the skirting board must be installed after the installation of the Isosonic Platform Floor boards and the Isoedge Strip installed under the skirting as shown in Diag.2.

Diag.4



Diag.5



### RECOMMENDED TREATMENTS FOR THE PREVENTION OF FLANKING NOISE-

Flanking noise transmission through walls, ducting and other vertically connecting elements can be of such a magnitude that virtually nullifies the effect of the most elaborate floor sound insulation system. Due consideration should therefore be given to the treatment of flanking sound paths, such as are potentially provided by DRY LINING, etc.

The following simple but effective treatments are recommended:

- DRY LINING** - the cavity formed between the lining board and the wall should be carefully sealed at both floor and ceiling levels.
- INTERNAL STUD PARTITIONING** - should not be allowed to breach ceilings or floors.

FOR FURTHER TECHNICAL ADVICE PLEASE  
CONTACT THERMAL ECONOMICS  
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