



Acoustray perimeter cavity stops

Patented* acoustic fire-rated cavity stop and drainage tray

* Patent number: GB2424658

Use

- To prevent the transmission of flanking noise between floor levels and external wall junctions
- As a fire stop with integrated cavity tray and weeps

Features and benefits

- Reduces flanking noise transmission with the unique benefit of integrating a preformed adjustable cavity tray and insulation panel
- Saves installation problems due to its ability to be installed independently to the internal wall
- No secondary fixing required
- No break in insulation, no cold bridging
- The unique fixing flange with drain holes eliminates the need for external weeps
- The main body of the Acoustray is manufactured in a rigid plastic
- Acts as formwork for floated screeds on beam floor construction
- As a fire stop achieves 90 minutes fire integrity and insulation to BS 476 Part 20 : 1987
- Ideal for refurbishment work as only the outer leaf requires to be removed to install, without the need to fix to inner leaf

Flanking noise transmission within a building is a potential problem where more than one dwelling occurs, primarily between apartment/flat type dwellings. If the cavity wall is not fully filled with insulation, flanking noise will transmit through walls and create a disturbance to surrounding occupants (see fig.1).

The problem in trying to create a required cavity stop is to secure an acoustic grade insulation directly adjacent to the floor slab. However by doing this the cavity in a localised area will be bridged so requiring a cavity tray.

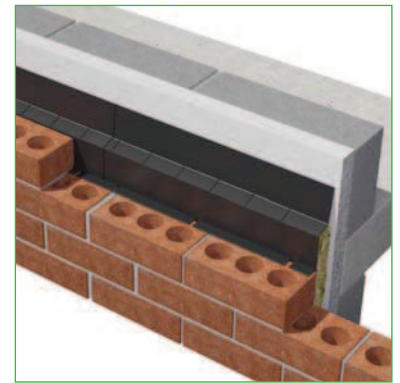
To compensate for a cavity tray the inner construction will have to remain at an accessible level and the cavity insulation trimmed back to accept a dpc, resulting in lower productivity and potential cold bridging issues (see fig.2).

Following the addition of a cavity tray, weep holes will be required at regular centres, which can affect the aesthetic appearance of fascias with visible water drainage points.

The unique Acoustray alleviates all these problems as it serves many functions in one (see fig.3).

Quality

- Satisfies all NHBC requirements
- Manufactured to BS EN ISO 9001 and BS EN ISO 14001
- Complies with Building Regulations Part E 'Resistance to the passage of sound'
- Complies with Building Regulations Part B 'Internal fire spread (structure)'
- Complies with Robust Details



Material and colour choice

- Manufactured in polypropylene
- Available in black only
- Cavity options available
- Supplied in convenient 500mm lengths

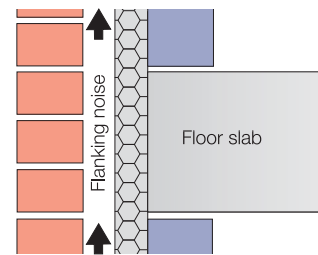


Fig.1

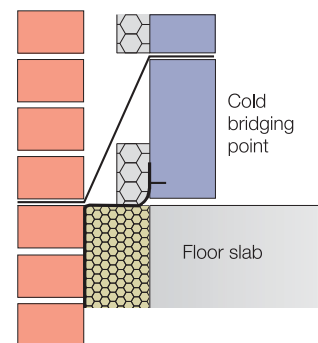


Fig.2

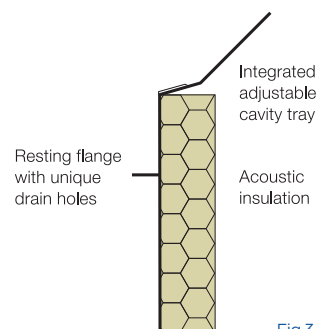


Fig.3



Acoustray perimeter cavity stops

Patented* acoustic fire-rated cavity stop and drainage tray

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Installation advice

The Acoustray has been designed for installation along the full perimeter of the building at floor slab level as work proceeds. Position and lay each Acoustray within the external wall (see fig.4) ensuring that the insulation is directly adjacent to the floor slab and compressed within the cavity. The system butt joins to form a continuous barrier with additional polyband strips for sealing each Acoustray (see fig.5).

The Acoustray comes in cavity options, mainly for the selection of insulation, with an adjustable cavity tray that should naturally lean back and rest against the cavity wall insulation to protect the clear cavity (see figs 6 & 7).

Cavity wall Insulation

- Where full fill cavity wall insulation is used there is no requirement for an acoustic cavity stop
- Where partial fill cavity wall insulation is used see figs 6 & 7
- Fig.6 shows the Acoustray fitted with insulation spanning the full cavity width. This option requires the cavity wall insulation to be cut at the section where the Acoustray is to be installed and is recommended for full fire resistance and acoustic requirements
- Fig.7 shows the Acoustray fitted with insulation spanning only the clear cavity width. This option allows the cavity wall insulation to be installed as normal without cutting at the floor slab level and is recommended for acoustic requirements only

How to order

- To calculate quantities divide the overall length of the required cavity wall run by 500mm, allow an additional unit for each corner for cutting. Always round up to the next whole number
- Determine and stipulate the cavity width that the Acoustray needs to suit. (see figs 6 & 7 for partial fill or full fill cavity options)
- Please allow for Polyband strip for all joints (approximately 300mm is required per joint)

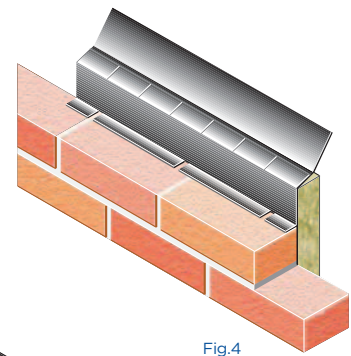


Fig.4

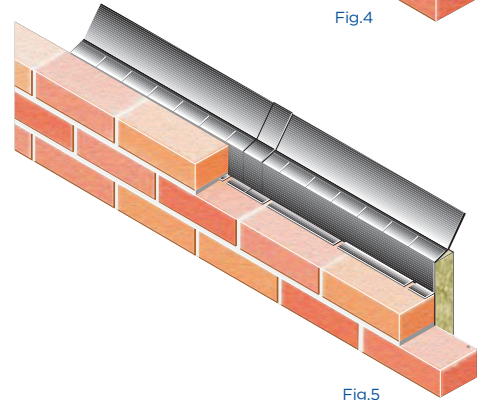


Fig.5

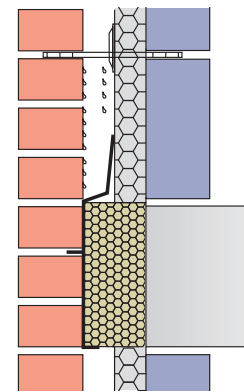


Fig.6

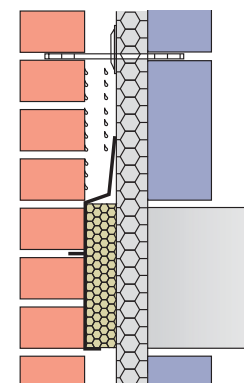


Fig.7

Bill of quantity

NBSPlus

F30 Accessories/sundry items for brick/block/stone walling

Clause

370 PREFORMED CAVITY TRAY / ACCESSORIES

• Manufacturer: **Timloc Building Products, Rawcliffe Road, Goole, East Yorkshire, DN14 6UG. Tel: 01405 765567, Fax: 01405 720479. Web: www.timloc.co.uk**

• Type(s) and location(s): Acoustray – FireRated acoustic cavity stop & drainage tray to be installed along the full perimeter of the building at floor slab level as work proceeds. Position and lay each Acoustray within the external wall directly adjacent to the floor slab, allow 300mm of polyband strip to join two units. Fixed in conjunction with Timloc Acoustdpc & Acousformer.

• Reference: **ACS Range**

- Options: **ACS50/220 – 50mm cavity**
ACS65/220 – 65mm cavity
ACS75/220 – 75mm cavity
ACS85/220 – 85mm cavity
ACS100/220 – 100mm cavity
ACSTAPE – Polyband Strip

Product codes

Acoustray

Description	To suit cavity width	Insulation	Length	Qty	Product code
Acoustic cavity stop	50mm	220mm	500mm	22	ACS50/220
Acoustic cavity stop	65mm	220mm	500mm	16	ACS65/220*
Acoustic cavity stop	75mm	220mm	500mm	16	ACS75/220
Acoustic cavity stop	85mm	220mm	500mm	12	ACS85/220*
Acoustic cavity stop	100mm	220mm	500mm	12	ACS100/220
Polyband strip			35mtr	1	ACSTAPE

* Special order - non stock items