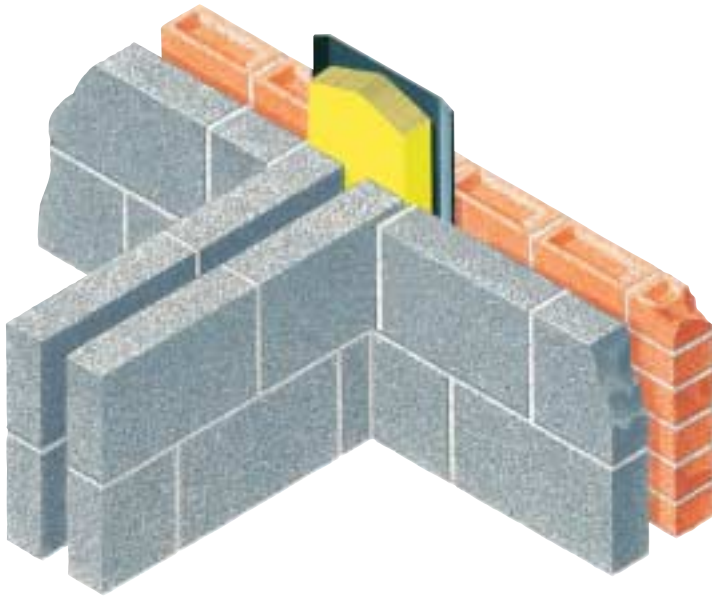


# Cavi240 Type PWIB

party wall integrity barrier  
dpc, fire and acoustic cavity stop



- Fire-rated integrity barrier
- Acts as a DPC
- Reduces acoustic flanking transmission
- Preformed ready to use, will not sag or distort

CLOSER SECTION

## problem

To damp-proof, insulate and provide a fire integrity barrier at party wall intersection.

## introduction

Party walls separating one unit from another effectively connect to an exterior masonry skin. There is a requirement for the design to be constructed in such a manner that dampness is prevented from tracking inwardly into the building and a predetermined level of fire integrity is created at this junction. The Type PWIB integrity barrier is designed for such purposes.

## solution

The party wall integrity barrier is supplied in long lengths and consists of semi-rigid profiled solid DPC, to which is bonded an alkaline earth silicate fibre

insulation layer. The profiled design ensures no mortar-bridging or capillary attraction can function where the abutting party wall joins the external masonry skin. As the walls are raised, the Type PWIB is incorporated with adjoining lengths V-lapped. Thus the insulation layer is continuous.

The layer, which is in slight compression, promotes excellent acoustic qualities, addressing flanking transmission (sound attenuation) as outlined in the statutory regulations. It also introduces effective fire integrity measures. The Type PWIB has been designated as a Cavi240 product, because it achieved 240 minutes fire integrity when independently tested by the fire research laboratory.

## sizes

Standard 2400mm lengths have an overall width of approximately 300mm and an insulation width of 100mm.

The insulation thickness varies and is dependant on the cavity width being serviced and extent (of any) of masonry projection into cavity. (State cavity width remaining when ordering). This product can also be manufactured to other dimensions by special order.

## material

Polypropylene-Petheleyne solid DPC.  
Non-combustible alkaline earth silicate fibre insulation.

## colour

Black profile with beige integrity layer.

## installation/site work

Full instructions accompany all deliveries detailing optimum placement and incorporation techniques.

## bill of quantity wording

Type PWIB party wall Integrity barrier

Incorporate Type PWIB vertically where party walls abut external skins. Measured metres.....

## ordering/regulations

See inside back cover for details.

## related products and applications

See all others within section designated fire integrity rated products, identifiable by the prefix Cavi60, Cavi90, Cavi120 and Cavi150.

## designers' comments

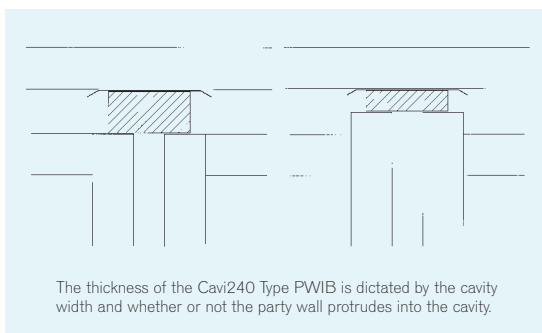
Testing principles BS 476: pt. 20: 1987. Furnace temperature maximum level during testing: 1136 Deg C. Sampled insulation typical thermal conductivity 0.033. Sampled typical resistance 1.515 to 3.030 (m<sup>2</sup> K/W). Use of the Type PWIB can address the requirements of Part E of the Building Regulation by contributing to the dissipating of sound (flanking transmission) via its fibrous matrix insulator.

### Samples analysis yielded

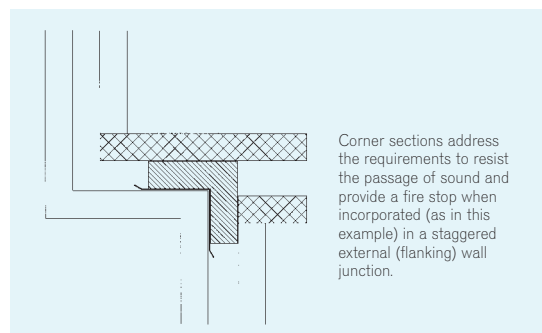
'r' value of 0.76m<sup>2</sup> °C/W / 100mm thickness  
'r' value of 0.56m<sup>2</sup> °C/W / 150mm thickness  
'k' = 0.033 W/ m<sup>2</sup> °C

Always check what other firebreak measures are necessary elsewhere in structure.

Ask for a copy of the British Standard testing procedure employed so you fully understand how and the circumstances under which this product has been rated. Employers and agents have statutory duties regarding liabilities for risk assessment. Ensure your design meets the required standard. All advice is inevitably generalised and you should ensure it is relevant to the specific circumstances in which you seek to apply it.



The thickness of the Cavi240 Type PWIB is dictated by the cavity width and whether or not the party wall protrudes into the cavity.



Corner sections address the requirements to resist the passage of sound and provide a fire stop when incorporated (as in this example) in a staggered external (flanking) wall junction.

