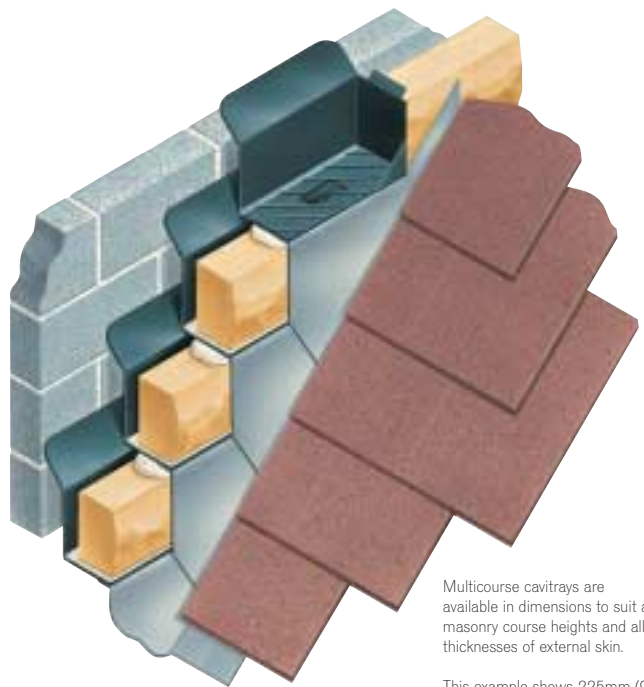


Type X Multicourse

for gable abutments -
multicourse applications[†]

- Ready-shaped attached lead flashing
- Traditional or timber-frame construction
- Clear cavity compartment area
- Sizes to suit: All course heights
All masonry thicknesses
All cavity widths
All ditches of abutment



Multicourse cavitrays are available in dimensions to suit all masonry course heights and all thicknesses of external skin.

This example shows 225mm (9") courses.

designers' comments

During the 1960s and 1980s, a considerable number of evaluation tests were conducted with damp-proof course tray shapes.

Small deviations in levels between outer and inner skins often exist, and preformed systems which require building-in can fail to line up on site when it is discovered that courses have 'drifted apart'. Whilst we have witnessed suggestions to mechanically fix to the inside skin or perhaps incorporate some form of inside-skin-downward-flap, we have rejected such methods. Our tests highlighted that such observations were not always easy to achieve on site. (To mechanically fix to an inside skin which is usually green is difficult, whilst separate flaps emerging from a blockwork inside skin can only emerge every 225mm, and with brickwork courses in the outer skin at 75mm courses, one is faced with a compromise or a gap.) Certainly any form of additional work to the inside skin is to slow up building operations and considerably increase costs.

[†]This section should be read in conjunction with Type X pages.



multicourse applications

Brickwork courses accept standard Type X cavitrays. However, different course sizes are sometimes encountered and a range of gable abutment multicourse cavitrays are available to accommodate different coursing heights. Multicourse cavitrays are based on the design of the Type X. They are proportioned to accept a



Multicourse Mix This example shows a combination of trays to suit 75mm 100mm and 150mm coursings.

variety of walling materials and dimensions. Examples include reconstructed, faced, natural and concrete masonry, in course heights of 100mm, 125mm, 150mm, 175mm, 200mm, 225mm. The cavitray upstands are hinged to suit cavity widths from 50mm up to and including 200mm. The tray base dimension is extended to suit whatever thickness of

masonry is used to construct the external skin.

As an example, a nominal 150mm backing block would have a base depth requirement of 250mm + cavity allowance. All depths can be accommodated. The height of the end upstand on each multicourse tray is of a size to match the masonry course height. As each tray is bedded and positioned, the underside abuts the end upstand of the lower tray. Thus the stepping DPC line is continuous, adopting the form of a staircase with connecting treads and connecting risers. The continuity is essential if dampness is to be arrested and prevented from penetrating or tracking below the stepping DPC line.

The multicourse cavitray accommodates the DPC requirements within the masonry, whilst the integral lead flashing projects and weatherproofs the roof/wall junction externally. The lead flashing is available in long or short format, to suit the construction detail. To calculate and order your requirements of multicourse cavitrays, follow



Multicourse Regular 225mm courses trays are used throughout this example.

the instructions outlined on the Type X pages, but substitute the course size you are using instead of the 75mm course size.

Remember to check also the depth (thickness) of the masonry you are using, to ensure the base size of the tray is appropriate. Our design and advisory service is available without charge. Schedules and quotations submitted for approval.

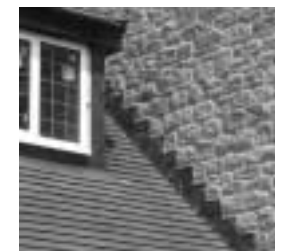
design considerations

The Building Research Establishment (digest 380) refers to the use of flexible DPCs to create a cavity tray and correctly identifies the difficulty in achieving fully sealed joints, especially when crossing the cavity. Flexible materials require support and dictate that an accommodating

course is found on the inside skin. The inside skin is usually constructed of a different material so the course levels are commonly at an inconvenient or unsatisfactory height. This dilemma is also apparent with timber-frame construction which relies upon mechanical fixing through the vapour barrier. Multicourse Cavitrays have an upstand which is rigid, freestanding and eliminates the need for support. It adjusts to match the cavity width to ensure compatibility.

related products and applications

See Type X cavitray for gable abutments.



Multicourse Regular Wide Front to Back Dimensions. The natural hamstone is built against a concrete backing block resulting in an external leaf of 250mm thickness beyond which is the cavity. Thus the trays have extended front to back dimensions.