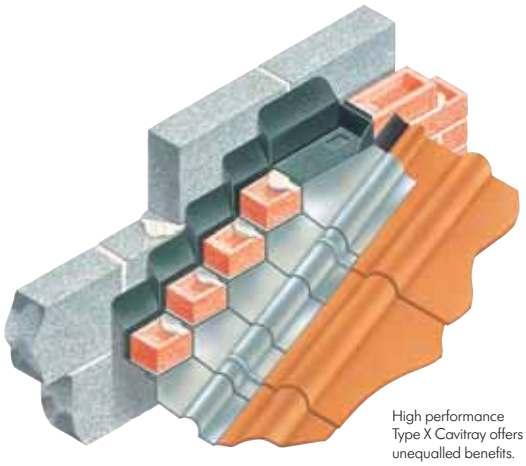
Type X

Cavitray for Gable Abutments

- High performance approved Cavitray for abutments
- Adjusts to cavity width - ensures correct relationship
- Integral anticapil features and integrity strip
- Traditional or timber frame construction
- Clear cavity compartment area - unobstructed flow
- Attached shaped flashing secured in bosem jaw



High performance Type X Cavitray offers unequalled benefits.

USE

To provide the stepped DPC and external weathering flashing where a sloping roof abuts a masonry wall.

SOLUTION

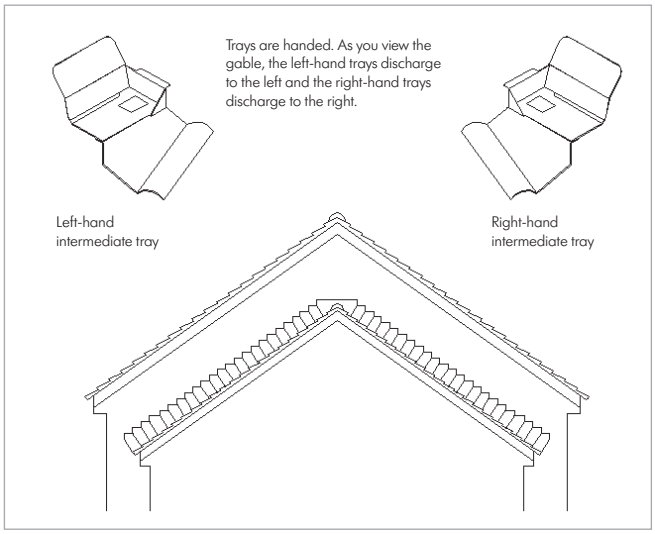
The Type X Cavitray is a preformed DPC unit with an attached ready-shaped flashing. When laid in every course of a cavity wall external skin against which a sloping roof abuts, trays provide continuous stepped DPC protection running parallel with the slope. Water and dampness in the exposed masonry skin above this stepped arrangement is prevented from gravitating downwardly below it. Thus the masonry skin is wet above the roofline but remains dry where it becomes an internal wall.

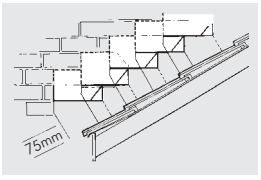
The Type X Cavitray requires building into one skin only and does not interpose the inner leaf. Each tray has a hinged self-supporting cavity upstand that adjusts to suit the cavity width. This facilitates compatibility with the cavity dimension as built - as opposed to the cavity dimension as intended.

The moulded features on every tray aid swift and accurate positioning. The mason is required to set up a chalk line matching the roof pitch and build one tray into every course with its corner on the line. This simplified installation procedure ensures all trays align and are correctly distanced.

The flashing on every tray is manufactured of lead. Alternatives may be selected from our range including a synthetic flashing. Each flashing is bonded onto the tray and is shaped to suit the roof pitch.

Flashings are simply dressed when the roof finish has been completed. Short flashings are attached where dressing is over a secret gutter or soaker, and long flashings are attached where dressing is directly over a suitably profiled tile.





Standard brickwork courses.

PRODUCT NAME - GROUP
Type X for Sloping Abutments

CAVITY WIDTHS ACCOMMODATED
50mm up to 140mm (std range)

PITCHES ACCOMMODATED
15 degrees to 70 degrees (std range)

DIMENSIONS
INTERMEDIATE SIZES

15 degrees	380mm x 130mm x 192mm vert
17.5 degrees	330mm x 130mm x 192mm vert
21 - 25 degrees	270mm x 130mm x 192mm vert
26 - 40 degrees	230mm x 130mm x 192mm vert
40 - 70 degrees	180mm x 130mm x 192mm vert

RIDGE TRAY SIZES

15 - 20 degrees	900mm x 130mm x 192mm vert
21 - 25 degrees	750mm x 130mm x 192mm vert
26 - 70 degrees	570mm x 130mm x 192mm vert

FLASHINGS
Short: 75mm min > 280mm
Long: 225mm min > 330mm
All dimensions vary pending actual pitch

ANGLES
220 x 220 external 120 x 120 internal

BESPOKE OPTIONS
Yes – all heights, depths & widths

TRADITIONAL CONSTRUCTION COMPATIBLE
Yes

TIMBER FRAME CONSTRUCTION COMPATIBLE
Yes

NEW WORK APPLICATIONS
Yes

RETROFIT / REMEDIAL APPLICATIONS
Yes

MASONRY SKIN STYLES
See Multicourse for non-std sizes

UNDULATING / SPLIT MASONRY FACES
See Designers' Comments for guide

CURVED WALL ON PLAN APPLICATIONS
Yes – see Curved Wall entries

CONGRUENT WITH OTHER WALL ELEMENTS
No identified incompatibility

ARRESTED WATER EVACUATION
Via Caviweeps (selection) in perp joints

THERMAL TRANSMISSION OF MATERIAL
Negligible

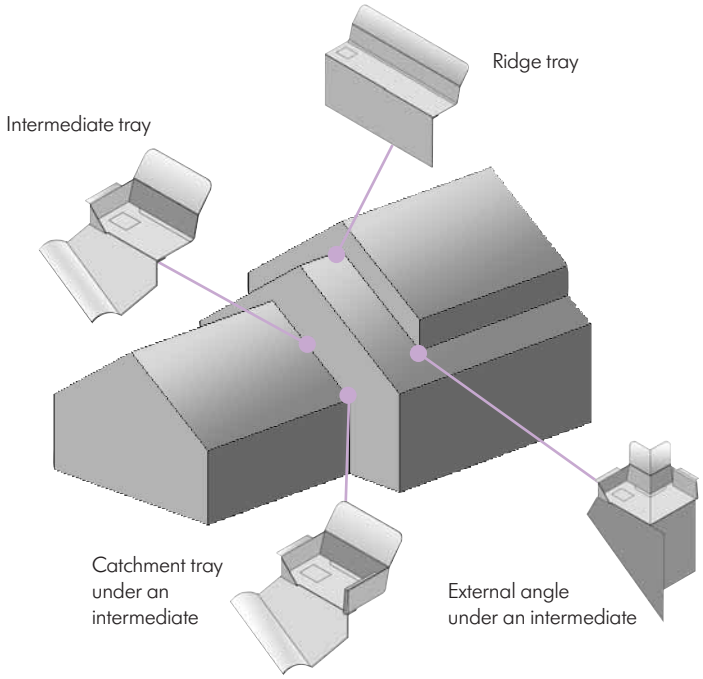
BS 50-140mm RANGE VARIABLE

DESIGNERS' COMMENTS

The original code of practice 121:101:1951 showed a cavity DPC arrangement with a 75mm upstand. We always considered this far too small an upstand in our experience for new work applications. Eventually the new code of practice revised the upstand height to 150mm, a dimension which is now prominent in BS5628. However, it is interesting to note that not all manufacturers produce to this stipulated height.

Type X (continued)

Cavitray for Gable Abutments



CALCULATING GABLE REQUIREMENTS

We offer to take-off and schedule your requirement and invite you to take advantage of our service. Alternatively, you may carry out your own calculations as follows:

Calculate each slope separately.
This slope is a left hand slope and requires left hand trays.
Calculate by counting the courses - or measuring the vertical rise and dividing by 75mm.
Allow the bottom tray to be a catchment tray or corner tray as applicable. All other trays up the slope will be intermediate trays.
A ridge tray finally caps the top of a conventional gable (one ridge tray straddles both slopes).

Then calculate the right hand slope opposite.
Confirm total tray numbers required together with the following:
Outer skin type and thickness?
Cavity total width and whether any insulation present?
Are long flashings or short flashings required?

The attached shaped flashing will be in code 4 lead to BS EN 12588, unless an alternative is specifically requested and printed on any requisition.

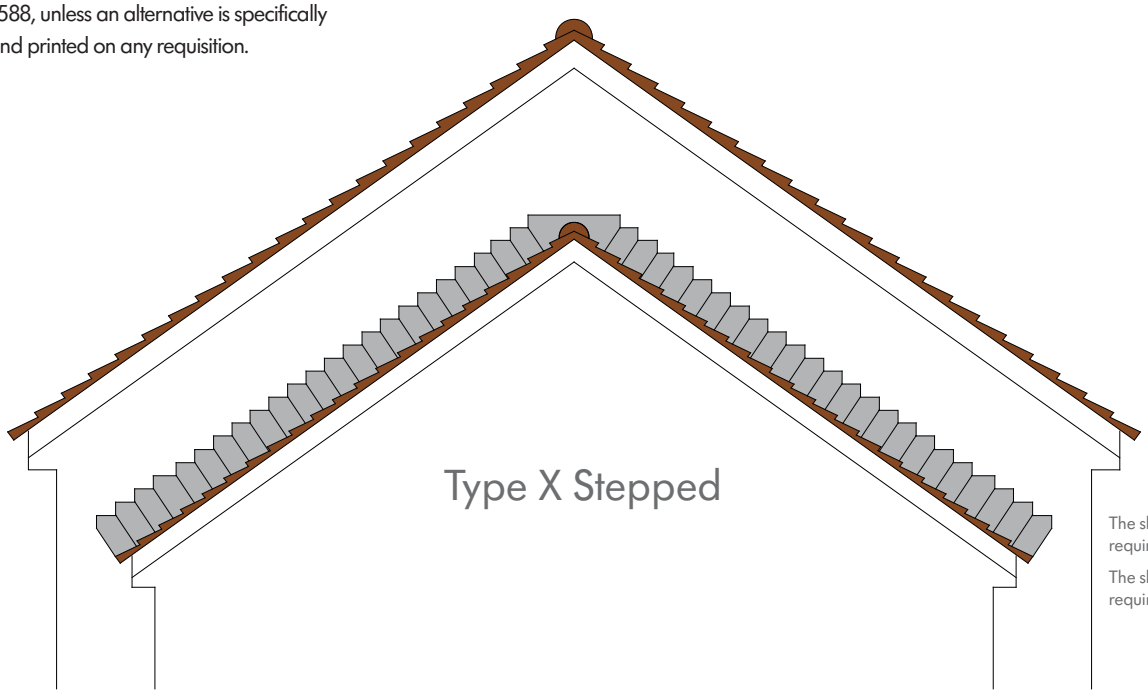
SPECIFICATION WORDING

Approved Type X Gable Abutment Cavitrays from Cavity Trays of Yeovil, Somerset BA22 8HU (01935 474769).

Type X Cavitrays to suit ..... (state pitch) pitch roof, complete with attached code 4 lead flashings to dress over .... (state tiles or state upstand of secret gutter or soaker). Standard brickwork coursing (or state otherwise). Cavity size = ... Lay within mortar bed, one per course, up the slope. Specify total number of handed intermediate, ridge, catchment and external angles.

HOW TO ORDER

We offer a free scheduling / design service and will determine your requirements. Alternatively, calculate each slope separately by counting the courses. Allow the bottom tray to be a catchment or corner angle. All other trays will be intermediate trays until you reach the top of the slope. The top tray on a conventional full gable will be a ridge tray. An example of a typical gable is shown above and clearly indicates how the quantities and tray types are determined.



Type X Stepped

The slope on the left requires left handed trays.

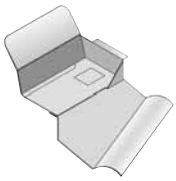
The slope on the right requires right handed trays.

Type X (continued)

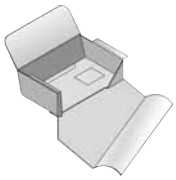
Cavitray for Gable Abutments

Ridge tray
This straddles the ridge. It has two open ends and thus allows water to discharge to the left or to the right

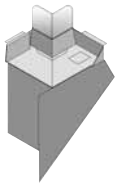
Intermediate tray
Intermediate trays are supplied handed and built into each course up the rake of the roof. Each tray has an end upstand so water can only discharge via the open end of the tray.

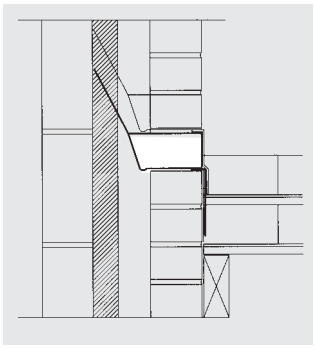


Catchment tray
This is similar to an intermediate tray but has upstands to both ends. Its function is to receive water from the intermediate trays and discharge this collected water through a Caviweep supplied with the tray.

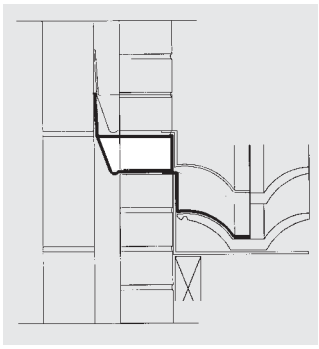


Internal / External Angles
An angle is used instead of a catchment tray if the abutment ends or returns on a corner. An angle may also provide a link with horizontal trays if required.





Short lead flashing for dressing over upstand of soakers (Shown in wider part insulated cavity.)



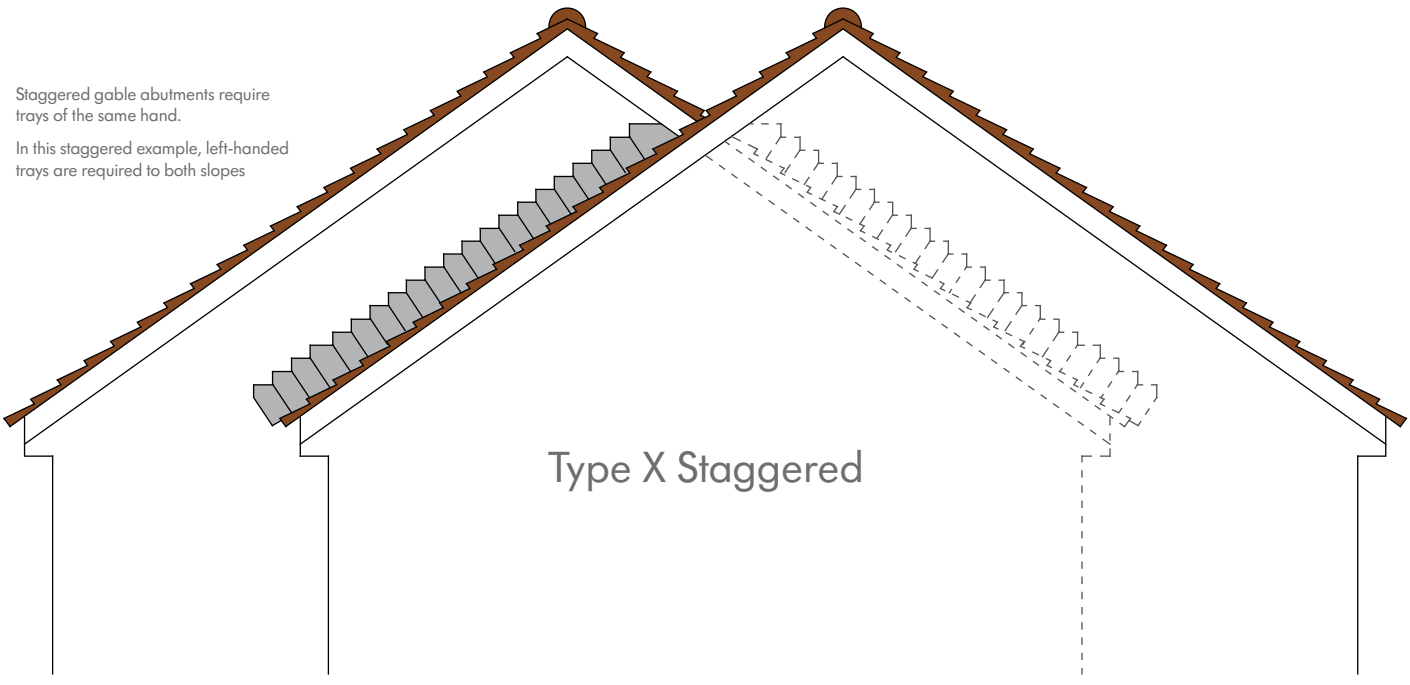
Long lead flashing for dressing directly over roof tiles.

Short leads
Short flashing for dressing over the upstand of a secret gutter or soakers. Whether secret gutter or soaker, it should rise against the masonry face and terminate just under the inboard end of the tray. In this example, partial fill insulation is also present.

Long leads
Long flashing for dressing directly over roof tiles. This option is appropriate where the tiles are suitably shaped (not flat or minimally undulated).

Staggered gable abutments require trays of the same hand.

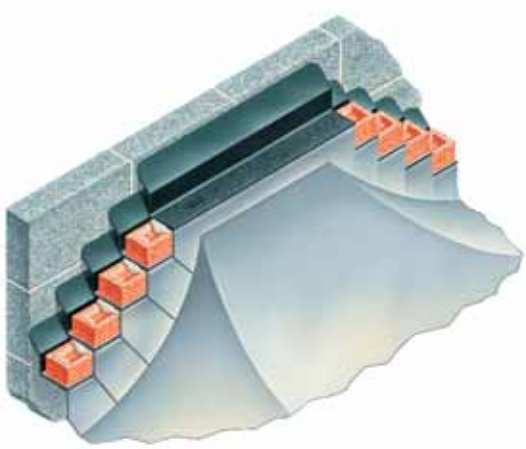
In this staggered example, left-handed trays are required to both slopes



Type X Staggered

Type X (continued)

Cavitray for Gable Abutments



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- Adjusts to cavity width - ensures correct relationship
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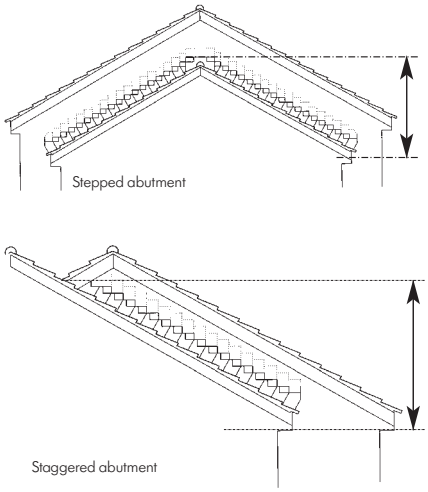
Type X Cavitrays are suitable for use in both traditional and timber frame construction where the course size is 75mm (standard brickwork coursing).

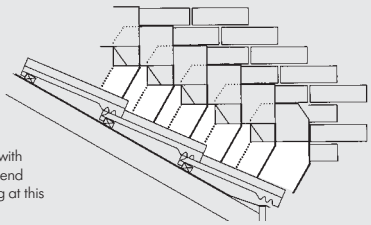
If you require trays for alternative coursings or trays for masonry of greater thickness, please read the section dealing with multi-course trays. We are able to supply to all construction dimension requirements.

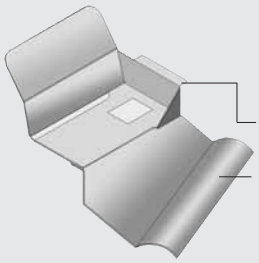
European Technical Approval has been awarded to Cavity Trays Ltd for the Type X Cavitray and other Cavitray systems within its range. No other UK manufacturer of trays holds this award.



Additional benefits

Unique overlapping flashing arrangement arrests any wind-driven rain.

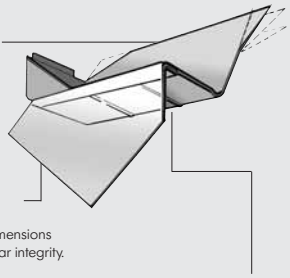


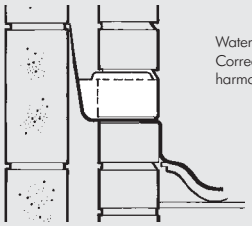


Integral Cavitray sealing flap links with upper tray. This feature on the tray end upstands arrests horizontal tracking at this vulnerable spot.

Adjustable cavity upstand accommodates the 'as-built' cavity status rather than the anticipated status.

Corner water-check prevents discharge at this point, an important consideration on exposed sites. Installation is also faster and easier, and the corner gusset ensures correct location within the brickwork as it stops trays being positioned too far forward or too far back.





Water drip bars eliminate under-base tracking.
Correct mortar bedding depth is also established as bar dimensions harmonize with front of tray section to aid stability and mortar integrity.

Clear cavity compartment area is unobstructed by troughs, ribs or stiffeners. This is possible because of our quality of material and quality of material thickness. Such a clear cavity compartment area is essential to prevent mortar bridging and to comply with the NHBC/COP requirements.

MATERIAL – TRAY
Petheleyne DPC

MATERIAL – FLASHING
Code 4 lead BS EN 12588,2006

MATERIAL – FLASHING ALTERNATIVES
Synthetic flashing with colour option
Copper, Aluminium (See separate page entry)

COLOUR
Black

EXTRUDES / COMPRESSES UNDER LOAD
No

PACK SIZE
Available individually

CFC
CFC Free

ODP
Zero

REGULATION COMPLIANCE
Yes can be used to satisfy arrestment

MAY BE USED IF CAVITY INSULATION PRESENT?
See Designers' Comments ref type.

CAD DOWNLOADS
Yes

DESIGN CONSIDERATIONS
Wider cavity range now accommodated

DESIGNERS' COMMENTS

Type X Cavitrays have always been produced to this dimension, prior to any BS enforcement. Tests have also established that water can be forced under some damp-proof courses if constantly high pressure differentials exist. Thus the requirement for all trays to be bedded on mortar to achieve solidity of bond and to ensure wind-driven rain cannot penetrate beneath same.

DAMP-PROOFING