

gable abutments

# PRODUCT GUIDE

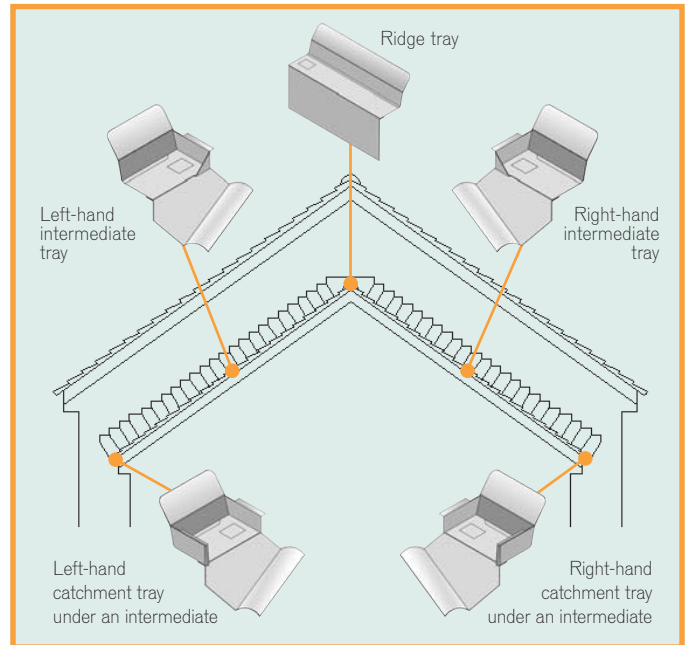
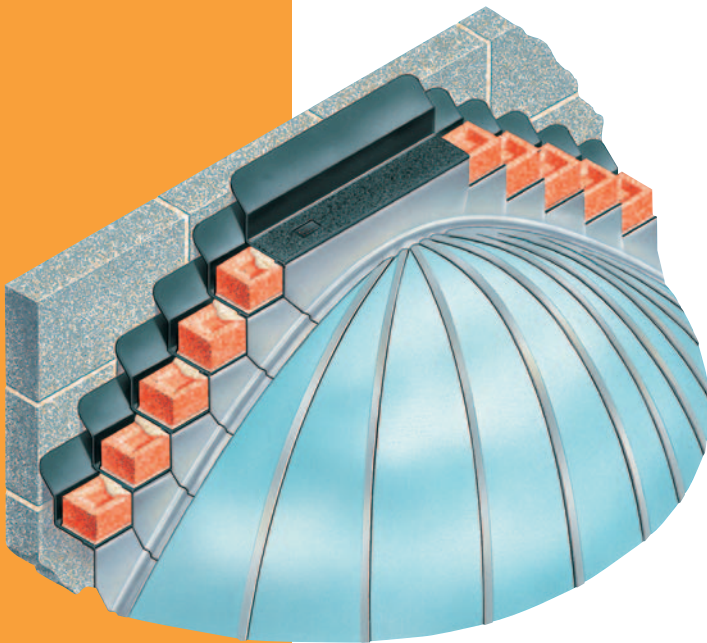
volume 21

## gable abutments

cavity trays and flashings  
for pitched roof intersection



# Gable Abutments



### use

Where a pitched roof abuts a cavity wall. Suitable where the outer masonry skin is coursed at approximately 75mm such as with brick and similar mediums. Accepts masonry skin thickness of up to 125mm.

Covers roof pitches from 10 degrees up to 75 degrees.

Accommodates cavity widths from 50mm up to \*200mm.

### standard

Type X cavity trays have been awarded European Technical Approval. No other gable abutment tray manufacturer has secured this highest standard. Type X cavitrays are also the subject of LABC (Local Authority Building Control) Product Type Approval.

### features and benefits

Built into outside skin only, speedy installation. Suitable for traditional construction or timber frame construction. Adjustable cavity upstand offers cavity width compatibility up to 140mm, \*or up to 200mm with extended model. Moulded tray base has mortar depth ribs promoting self-gauging for uniform regular bedding. Tray body is thickened and toughened at corners.

Lead flashing is attached and ready-shaped for immediate dressing. Long or short flashing option. Lead flashing promotes protection for full length of tray and provides additional overlap protection. Each tray unites with higher tray via integral integrity link. Corner

gusset prevents water discharge at inboard end, despite directly blowing wind conditions. Gusset feature aligns tray so it cannot be set too forward or too far back of masonry face. Easy installation method ensures perfect placement without need to measure.

The Type X is manufactured by the longest established specialist in this field, and our experience since 1920's predates that of all other cavity tray manufacturers. This product is accompanied with a product performance warranty for the benefit of Architect, Builder and Client.

### quality

LABC Product Type Approval, (Local Authority Building Control in UK) confirmed.  
 NHBC – requirement fulfilment confirmed.  
 Zurich – requirement fulfilment confirmed.  
 BS EN ISO 9001-2000 manufacturing standard confirmed.  
 British Standard – requirement fulfilment (Type X identified in BS 5628-3:2001 page 63).  
 European Technical Approval (BBA).  
 May be used in European Countries.  
 Insurance backed product performance warranty accompanies this product.

### materials

Injection moulded in stabilised black UV petheylene/polypropylene.  
 Material thicknesses up to 4mm.  
 Milled lead code 4 flashing to BS EN 12588:1999.

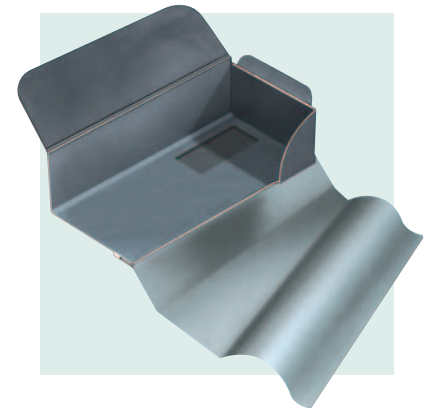
### product types in range

#### Ridge Tray

This tray straddles the ridge. It has 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, thus water can only discharge via the open end of the tray.



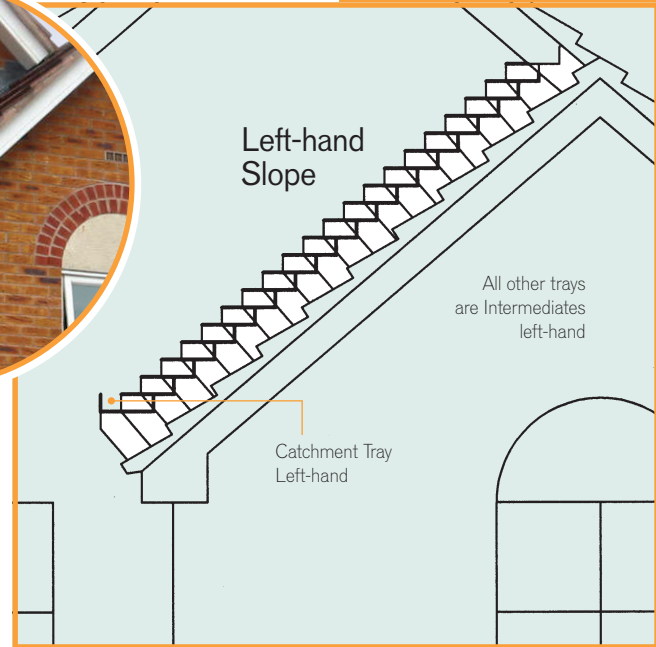
#### Catchment Tray

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 catchment tray.  
 \*(The caviweep is also approved within the European Technical Approval Standard fulfilment).

#### 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.

Type X



### example application

- Select whether you require long flashings to dress over profiled tiles or short lead flashings to dress over upstand only of secret gutter or soaker.
- State roof pitch.
- Confirm wall construction and cavity size.
- Where the pitched roof abuts the cavity wall, trays are built into every course.
- Calculate every slope separately.
- In this example (photograph) the slope is a left hand slope and thus requires left handed trays.
- The bottom tray is a catchment tray, and a caviweep is used so that water collected by this tray can discharge out of the structure.
- All other trays in this example are intermediate trays.
- Each tray is bedded on mortar with the corner of each tray touching the line.
- This results in every tray being ideally positioned in relation to the abutment being protected.
- Cavitytrays suit the cavity width encountered as the cavity upstand is hinged and adjustable.
- The arrangement of trays creates the equivalent of a dpc staircase, with connecting treads and connecting risers. Thus water penetrating the external leaf cascades from tray to tray until being discharged at catchment tray level. All masonry below the roofline is protected and remains dry.
- At an appropriate stage in the build programme, the attached ready-shaped lead flashings are dressed.



Type G cavitytrays with attached lead flashings provide protection to the front horizontal intersection. Note the Type X trays used above the sloping abutment terminate with an external angle. This provides a protective link with the Type G trays.

### determining requirements

We offer a free take-off service. By taking advantage of this service you receive a quotation setting out our recommendation, with a list of the trays required and a total price for the supply to your site. Trouble-free and performance warranted products fulfilling best practice recommendations. These Cavity Trays of Yeovil products have Local Authority Building Control (LABC) Product Type Approval for use in the United Kingdom.

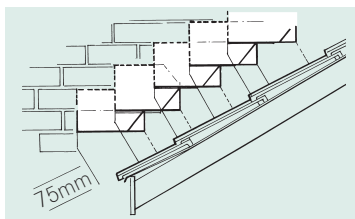
Please forward plans for prompt response or alternatively request us to visit. We will also be pleased provide guidance to installers on site.

### how to order

Calculate each slope separately. State left or right hand. State roof pitch. Advise long or short flashings. Confirm wall construction and cavity size. Count the courses. Allow the bottom tray to be a catchment or corner angle. All other trays will then be intermediate trays until you reach the top of the slope. The top tray on a conventional full gable will normally be a ridge tray.

### how to install

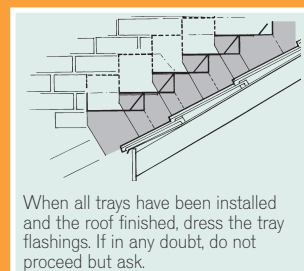
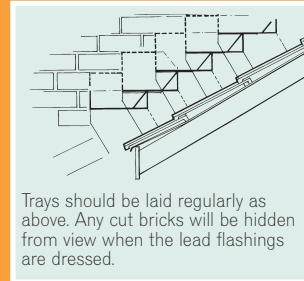
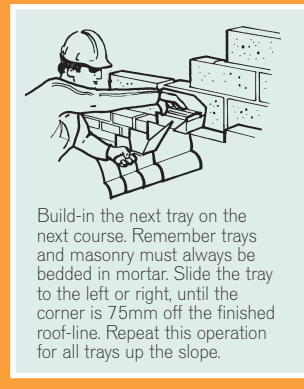
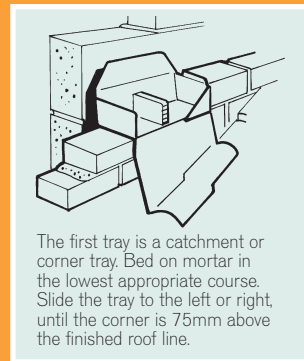
- Correct tray positioning is achieved with the use of a chalk-line or dummy rafter.
- This is positioned 75mm above the finished roof surface. (or is positioned to match the height of the upstand of any secret gutter or soaker, if the upstand rises above 75mm).
- Once this is in place, further measuring is not necessary.

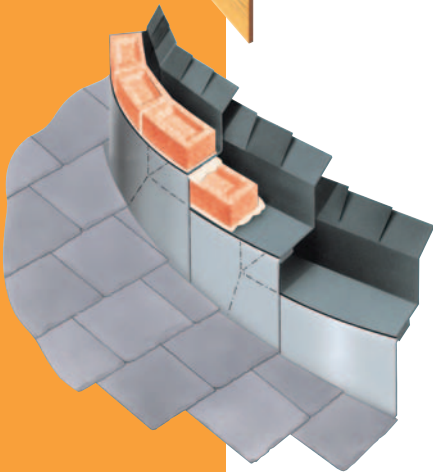
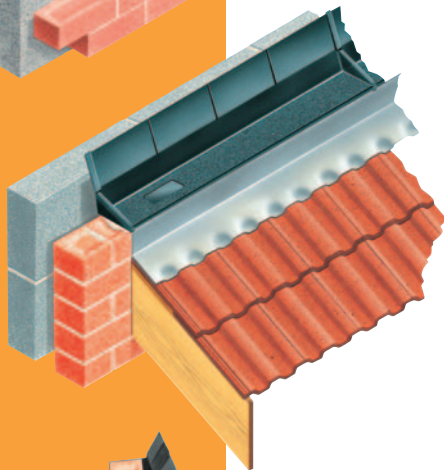
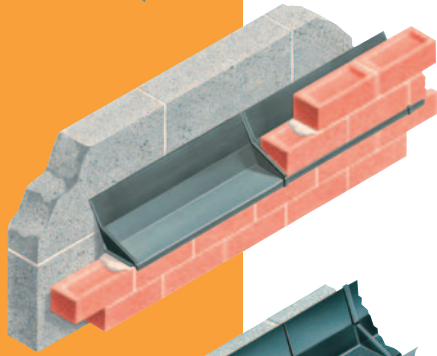
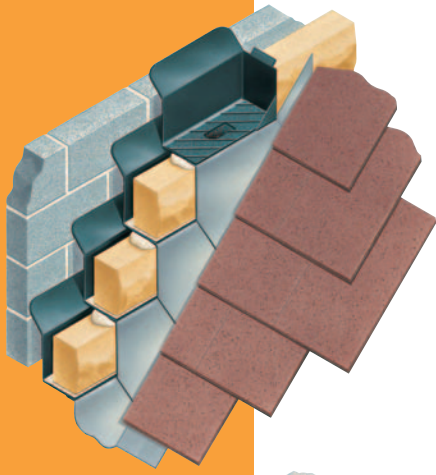


Type G provides the horizontal protection and Type X the stepped protection

### variations

Preformed cavitytrays are described in further detail within our comprehensive technical manual. Applications include horizontal running trays and angles. These may link with abutment trays so protection extends to adjoining roof elevations. Examples may be seen in the photographs. Cavity Trays Ltd also manufactures cavitytrays to suit different course heights and different skin thicknesses for all types of masonry.





**need help?**

We will be delighted to calculate your requirements and generally advise. If you would like to take advantage of our free service, please contact our Helpdesk. (01935 474769)

The Type X standard cavity tray range is for use with standard brickwork (75mm) courses. Other ranges to suit all masonry coursings and all masonry thicknesses in walls of all shapes and all cavity widths are available. Appropriate cavity trays are available for building into stonework, block work and reconstructed masonry materials. Please request a copy of our main technical manual.

Approved Type X cavity trays and approved caviweeps are manufactured only by Cavity Trays Ltd of Yeovil and are products within our range awarded European Technical Approval. Such products are additionally the subject of an insurance backed product performance warranty. No other tray manufacturer holds this standard and offers such an accompanying performance warranty.

Please specify clearly to ensure adherence to your chosen specification and to prevent substitution with goods of a lesser standard. Cavity Trays Ltd offers a conformity document that should be requested as proof of type and accompanying warranty.

**Cavity Trays**

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