

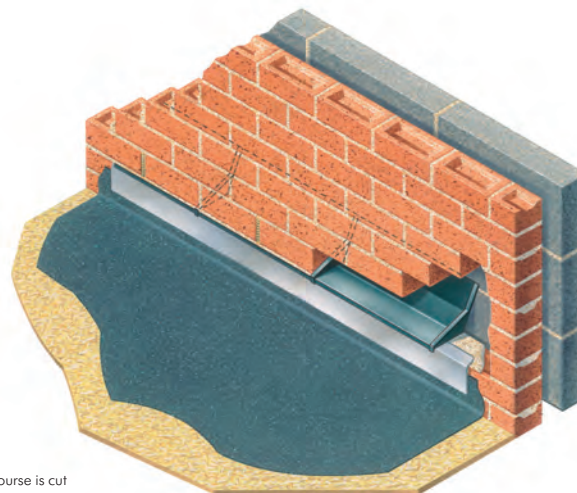
Specifications

Product name - group	Type E
Cavity widths accommodated	From 50mm up to 140mm
Dimensions – brickwork & similar	See guide showing types and locations
Bespoke options	Yes – all dimensions and cavity widths
Traditional construction compatible	Yes
Timber frame construction compatible	Yes
New work applications	N/A see Type G for new work
Retrofit / Remedial applications	Yes
Masonry skin styles	Trays available for all styles
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 - 0.15 – 0.17
Material	Polypropylene DPC
Colour	Black
Extrudes / compresses under load	No
Pack size / weight	Varies pending design
CFC	CFC Free
ODP	Zero
Regulation compliance	Yes can be used to satisfy arresment
May be used if cavity insulation present?	See Designers' Comments ref type
CAD downloads	Yes

TYPE E

Cavitrays for insertion into an existing wall

- Brick-sized cavitrays permit progressive insertion
- Anticapil interlocking to form long runs
- Cavity widths compatible - upstand adjusts to suit
- Unobstructed cavity compartment area with stand-alone discharge
- Easy compliance with building regulations



Only one course is cut out to accommodate the Type E Cavitrays.

Use

To prevent damp penetrating an original outside wall that has become an inside wall by virtue of an extension being built. To re-establish damp control measures where an original DPC has failed.

Solution

When an extension is added to an existing property built with cavity walls, the status of the original exterior wall changes below the extension roof level. The wall remains exposed to wind-driven rain above the extension roof, and water penetrating it will gravitate and permeate into the extended area, unless measures are taken.

The Type E Cavitray is a preformed DPC unit approximately two bricks in length. There are upstands at either end of each tray that permit adjoining trays to clip together. Trays are inserted into a cavity wall one at a time. Long runs are thus created with a series of connected but self-contained Type E units. The preformed ends coincide with the masonry perp joints so bonding is normally unchanged.

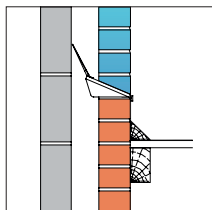
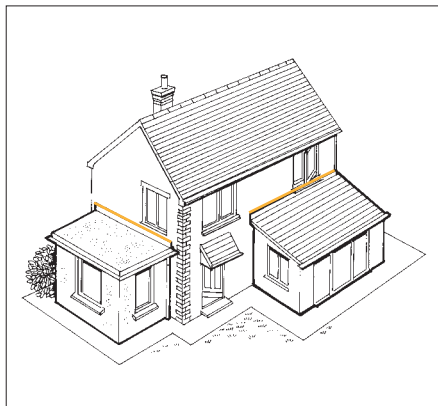
All Type E Cavitrays also have an extended back cavity upstand, that runs the length of the tray. The upstand is hinged to take up the cavity width encountered from 50mm to 140mm, ensuring compatibility. The front projecting lip of the tray is designed to provide protection of the bedding course against wind-driven rain.

All work can be executed from outside the building, and the inner skin of masonry need not be disturbed. Only one course of masonry need be removed, as the tray hinging format permits it to be introduced within a 75mm aperture. The interconnecting tray end upstands provide positive continuity, eliminating dependence on lapping and sticking. Accordingly the status of the union through the skin and where it spans the cavity is not in doubt.

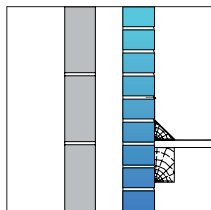
Where Type E Cavitrays are used above a new roof intersection, it is usual to also incorporate a flashing that provides a flexible connection over the roof finish upstand or similar (see installation procedure).

In situations where the Type E is replacing a failed DPC, a flashing may not be required – it depends on the application. (see following section dealing with remedial and refurbishment work).

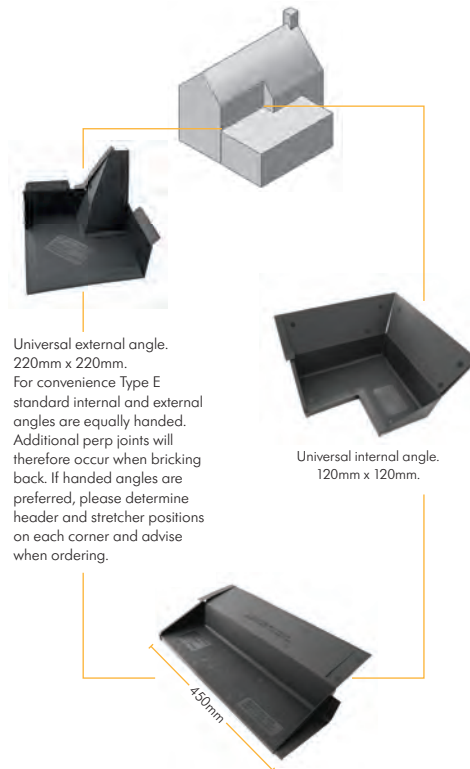
The integral stopends of the Type E Cavitray mean each unit is a self-contained stand-alone DPC unit with its own collection area. Therefore provision must be made to discharge all water arrested by each tray. This is facilitated using a Caviweep incorporated within the perp joint in the centre of each tray. The specifier may select from a range of Caviweep styles and colours to suit the project.



Type E cavitrays with extended flexible upstands are particularly suitable for non-standard or varying cavities.



Rain penetrates the external skin, which becomes an internal skin below the new roofline.



Universal external angle.
220mm x 220mm.

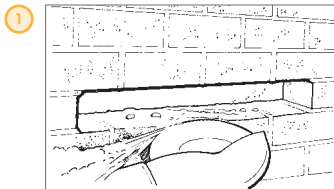
For convenience Type E standard internal and external angles are equally handed. Additional perp joints will therefore occur when bricking back. If handed angles are preferred, please determine header and stretcher positions on each corner and advise when ordering.

Universal internal angle.
120mm x 120mm.

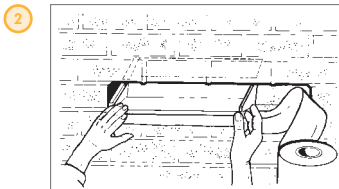
Type of Existing Masonry

Where the masonry skin into which trays are to be inserted is not brickwork, the Type E Cavitray can be supplied in dimensions to suit. Our bespoke service can accommodate most requirements, including trays with provision for windposts, stanchions, changes of level and set-backs in the finished face line.

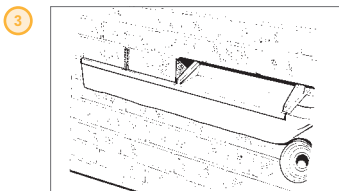
Specifications



Step 1 - Three bricks are removed from the wall forming a 675mm opening (an angle grinder /cutter is ideal for cutting out).



Step 2 - One cavity tray is inserted together with the flashing intended for dressing over the skirting of the roof finish (flashing approx 50mm into wall).



Step 3 - Two bricks are replaced in the wall into the Cavitytray. They are jointed and securely slate pinned, leaving the wall above safe and firm. A Weepvent is incorporated in the middle perp. Two more bricks are removed again forming a three brick space. The flashing is extended and a second Cavitytray inserted. The integral U clip joins the trays, ensuring that no water can penetrate. Two more bricks are inserted and a weephole again formed. There are now two adjoining but completely self-contained Cavitytrays. The method is continued until the required run is completed. (Always bed on mortar. Do not dry bed.)



Type E Cavitytrays used without flashing, over an existing opening where the original damp course has failed or has been omitted. The exact course in which the cavitytray is introduced varies depending on the construction detail.

Dual Exposed Elevations

Tray upstands always project upwardly in the cavity. The exception is where an inner skin is also externally exposed and receptive to the weather, as might be encountered in a parapet wall.

In such instances trays either incorporate an additional flap that turns down prior to making contact with the masonry, or should trays be back to back with others in the opposite skin, a clipping arrangement is provided to fulfil the same function. This approach prevents upstand under-tracking. We will be pleased to identify and advise should this requirement arise.

How to Order

State number of standard lengths and angles required.
Non-standard: provide drawing / dimensions.



Designers' Comments

Where masonry with a split or undulating face exists, consider grinding insertion base edge so masonry adopts a straight finish to permit inserted trays and flashing to nestle back evenly and consistently tightly against edge. Where a rendered finish exists, consider whether a deeper tray might be appropriate to accommodate overall skin thickness.

If inserting into an existing wall containing full fill or partial fill insulation, ensure back upstand is positioned to service full width of cavity. If bead insulation is installed, be aware that some early styles were not bonded (loose fill) and will expel when a wall is opened up.

Correct installation of a cavity tray at the junction of an external cavity wall and a conservatory roof will prevent the ingress of water into the conservatory through the existing external wall of the house. Designers and householders should be aware that without a properly installed cavity tray some water ingress may occur in certain locations during severe weather conditions.

See the Building Standards Technical Handbook – Conservatories Guide 2nd edition issued to provide guidance on how to meet the Building Regulations for conservatories built onto existing houses.

Bill of Quantity / Specification Wording

F30 -Clause 370 Preformed Cavity Trays.

Manufacturer: Cavity Trays Ltd, Yeovil Somerset BA22 8HU Tel: 01935 474769

Type E horizontal Cavitytray with European Technical Approval to be inserted into existing cavity walls where indicated at extension intersections and/or to remedy damp penetration of masonry etc. Build in carefully observing manufacturers' instructions to ensure watertight installation. Incorporate flashing if applicable. Type E metres run _____. Internal angles _____. External angles _____.



See how Type E Cavitrays are fitted into an existing external skin

