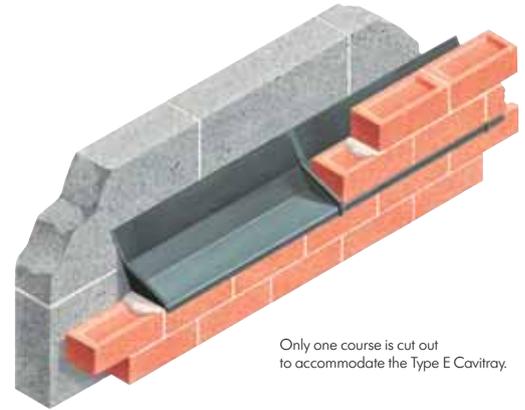


Type E

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



USE

To prevent damp penetrating an original outside wall that has become an inside wall by virtue of an extension being built.

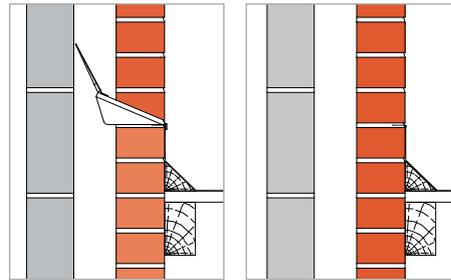
To re-establish damp control measures where an original DPC has failed.

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 will penetrate it will gravitate and permeate into the extended area, unless measures are taken.

The Type E Cavitrays 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.



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.

Apart from the financial saving, the advantages of using Type E Cavitrays are considerable. 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).



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 arrestment

MAY BE USED IF CAVITY INSULATION PRESENT?

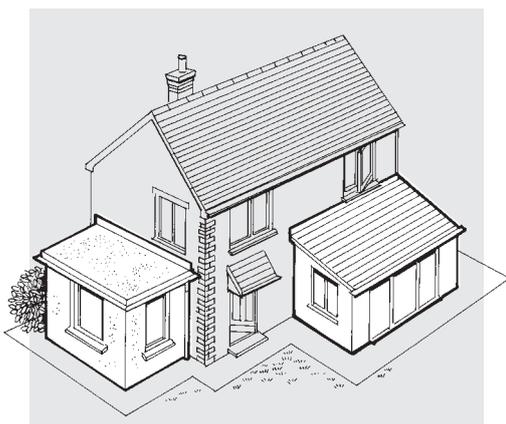
See Designers' Comments ref type.

CAD DOWNLOADS

Yes

DESIGN CONSIDERATIONS

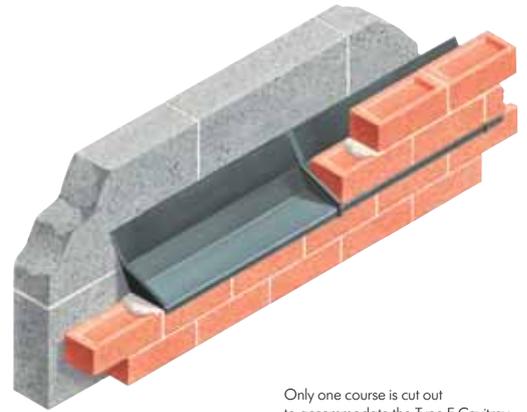
Lip projections to opening only with set back over-sailing to ends available as no-cost option



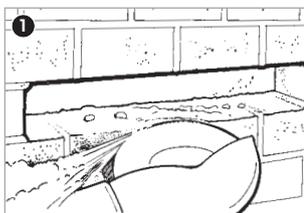
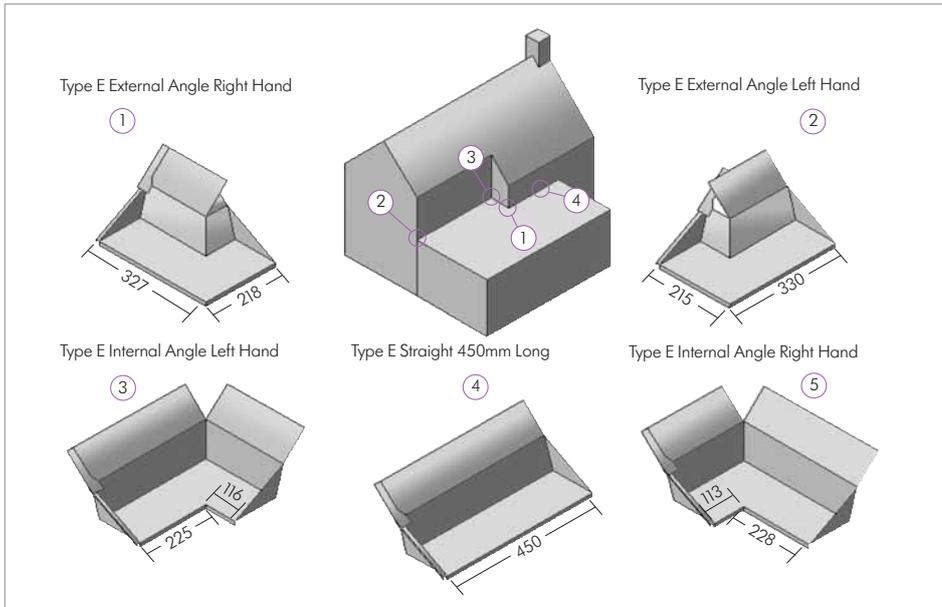
Type E

Cavitrays for insertion into an existing wall

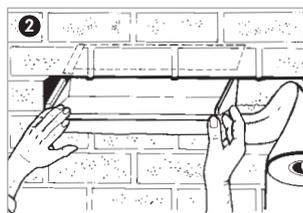
- Brick-sized cavitrays permit progressive insertion
- Anticapil interlocking to form long runs
- Cavity widths compatible - upstand adjusts to suit
- Unobstructed cavity compartment area with stand-alone discharge
- Easy compliance with building regulations



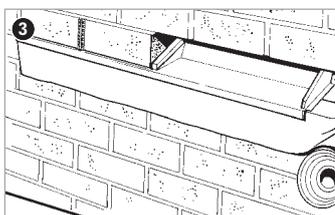
Only one course is cut out to accommodate the Type E Cavitrays.



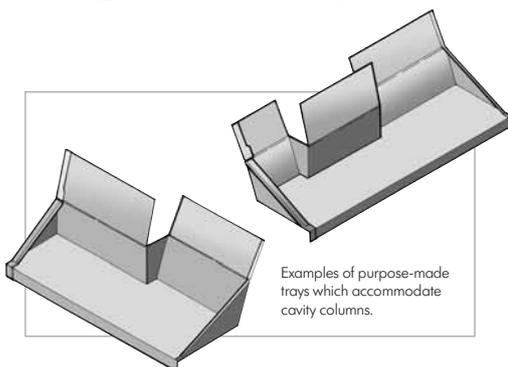
Step 1 - Three bricks are removed from the wall forming a 67.5mm opening (an angle grinder / cutter is ideal for cutting out).



Step 2 - One cavitrays is inserted together with the flashing intended for dressing over the skirting of the roof finish (flashing approx 50mm into wall). Lead flashing is not required in most remedial applications.



Step 3 - Two bricks are replaced in the wall into the Cavitrays. 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 Cavitrays 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 Cavitrays. The method is continued until the required run is completed. (Always bed on mortar. Do not dry bed.)



Examples of purpose-made trays which accommodate cavity columns.

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 arremstment

MAY BE USED IF CAVITY INSULATION PRESENT?

See Designers' Comments ref type.

CAD DOWNLOADS

Yes

DESIGN CONSIDERATIONS

Lip projections to opening only with set back over-sailing to ends available as no-cost option



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

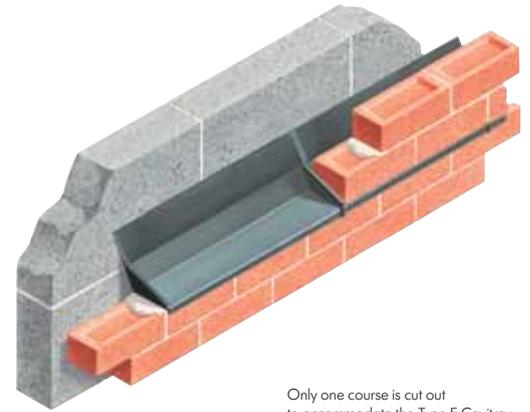
The integral stopends of the Type E Cavitrays mean each unit is a self-contained stand-alone DPC unit with its own collection area. Therefore provision must be made to discharge all water arrested by each tray. This is facilitated using a Caviweep incorporated within the perp joint in the centre of each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



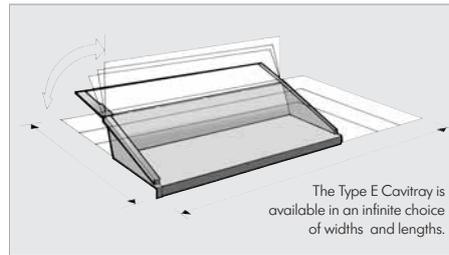
Type E Cavitrays used without flashing, over an existing opening where the original damp course has failed or has been omitted. The exact course in which the cavitray is introduced varies depending on the construction detail.

TYPE OF EXISTING MASONRY

Where the masonry skin into which trays are to be inserted is not brickwork, the Type E Cavitrays can be supplied in dimensions to suit. The depth of each tray can be increased to accommodate thicker external skins, as can the length to suit different masonry modules. The cavity width range can also be selected. 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.



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



The Type E Cavitrays is available in an infinite choice of widths and lengths.

HOW TO ORDER

State number of standard lengths and angles required.

Non-standard: provide drawing / dimensions and we will immediately advise.

SPECIFICATION WORDING

Type E Cavitrays for insertion into existing masonry skin by Cavity Trays of Yeovil Somerset BA22 8HU (01935 474769).

Metres run x ()

Angles internal left/right hand x no ()

Angles external left/ right hand x no ().

Request liability/conformity document upon completion.



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.

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. Published October 18th 2010.

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 arrestment

MAY BE USED IF CAVITY INSULATION PRESENT?

See Designers' Comments ref type.

CAD DOWNLOADS

Yes

DESIGN CONSIDERATIONS

Lip projections to opening only with set back over-sailing to ends available as no-cost option

