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Agrément Certificate
93/2937
Product Sheet 2

TIMLOC CAVITY TRAYS

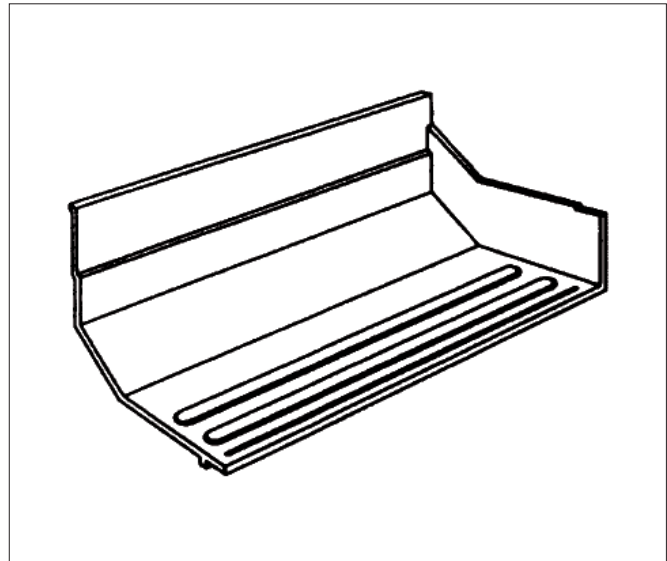
TIMLOC EVERDRY STEPPED CAVITY TRAYS

PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to Timloc Everdry Stepped Cavity Trays, used to form a damp-proof course at the abutment of a pitched roof and a cavity wall of blockwork or stonework for cavity widths between 50 mm and 125 mm and a minimum roof pitch of 7.5°.

AGRÉMENT CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Behaviour under load — the products will not adversely affect the ability of the wall to sustain and transmit compressive loads (see section 5).

Resistance to passage of water — the products will provide an effective barrier against liquid water (see section 6).

Use with cavity wall insulation — the products are compatible with materials currently used as cavity wall insulation. The trays do not form a continuous barrier therefore blown or injected insulation may penetrate from above or below the trays (see section 7).

Durability — under normal service conditions the products will remain effective throughout the lifetime of the building (see section 9).

The BBA has awarded this Agrément Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément




Date of First issue: 3 November 2009

Simon Wroe
Head of Approvals — Materials

Greg Cooper
Chief Executive

Originally certificated on 7 June 1996

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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Regulations

In the opinion of the BBA, Timloc Everdry Stepped Cavity Trays if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations:



The Building Regulations 2000 (as amended) (England and Wales)

Requirement: A1	Loading
Comment:	The material properties of the products indicate that when properly installed the ability of the wall to sustain and transmit compressive loads will not be adversely affected. The presence of a dpc can reduce the shear and tensile strength of a wall at that point, and the design may need to take account of this. See section 5 of this Certificate.
Requirement: C2(b)	Resistance to moisture
Comment:	The products when properly installed will prevent water that has penetrated the outer leaf of a cavity wall from reaching the inner leaf or lower parts of the wall. See sections 6.1 and 6.2 of this Certificate.
Requirement: Regulation 7	Materials and workmanship
Comment:	The products are acceptable. See section 9 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation: 8(1)	Fitness and durability of materials and workmanship
Comment:	The products can contribute to a construction satisfying this Regulation. See section 9 and the <i>Installation</i> part of this Certificate.
Regulation: 9	Building standards — construction
Standard: 1.1(a)(b)	Structure
Comment:	The products, when properly installed will not adversely affect the ability of the wall to sustain and transmit compressive loads. The presence of a dpc can reduce the shear and tensile strength of a wall at that point, and the design may need to take account of this, with reference to clause 1.1.1 ⁽¹⁾⁽²⁾ . See section 5 of this Certificate.
Standard: 3.10	Precipitation
Comment:	The products can contribute to a construction satisfying this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.4 ⁽¹⁾⁽²⁾ . See sections 6.1 and 6.2 of this Certificate.
Regulation: 12	Building standards — conversions
Comment:	All comments given for these products under Regulation 9, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2000 (as amended)

Regulation: B2	Fitness of materials and workmanship
Comment:	The products are acceptable. See section 9 and the <i>Installation</i> part of this Certificate.
Regulation: C4(b)	Resistance to ground moisture and weather
Comment:	The products when properly installed will prevent any water that has penetrated the outer leaf of a cavity wall from reaching the interior or the lower parts of the wall. See sections 6.1 and 6.2 of this Certificate.
Regulation: D1	Stability
Comment:	The products when properly installed will not adversely affect the ability of the wall to sustain and transmit compressive loads. The presence of a dpc can reduce the shear and tensile strength of a wall at that point, and design may need to take account of this. See section 5 of this Certificate.

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See section: 2 *Delivery and site handling* (2.1 and 2.5).

Non-regulatory Information

NHBC Standards 2008

NHBC accepts the use of Timloc Everdry Stepped Cavity Trays, when installed and used in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 6.1 *External masonry walls*.

Zurich Building Guarantee Technical Manual 2007

In the opinion of the BBA, Timloc Everdry Stepped Cavity Trays, when installed and used in accordance with this Certificate, satisfy the requirements of the *Zurich Building Guarantee Technical Manual*, Section 4 *Superstructure*, Sub-section *External walls – masonry – cavity trays*.

Technical Specification

1 Description

1.1 Timloc Everdry Stepped Cavity Trays are either injection moulded from 1.6 mm polypropylene or vacuum formed from 2 mm medium-density polyethylene. The trays are available in left-handed and right-handed forms.

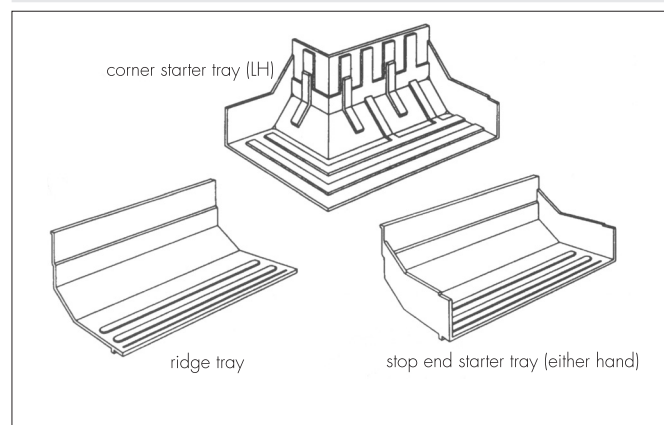
1.2 The cavity tray units are available as shown in Table 1 and Figure 1.

Table 1 Design and dimensions

Description	Length (mm)	Roof pitch (°)
150 mm stone coursing		
Intermediate tray ⁽¹⁾	450	≥25.0
Stop end starter tray ⁽¹⁾	625	17.5–22.5
Corner starter tray ⁽¹⁾	1250	7.5–15.0
Ridge tray	450	–
	550	–
	450	–
225 mm block/stone		
Intermediate tray ⁽¹⁾	625	≥25.0
	1250	12.5–22.5
Stop end starter tray ⁽¹⁾	450	–
Corner starter tray ⁽¹⁾	550	–
Ridge tray	625	–

(1) Available in left- and righthand versions.

Figure 1 Examples of trays



1.3 The trays are available with a code-blue⁽¹⁾ lead flashing.

(1) As defined by BS EN 12588 : 1999.

1.4 A range of ancillary items is available for use with the range of products and includes:

- weeps — for channelling water from a wall
- butyl sealant tape.

1.5 Quality control tests are conducted on the raw materials and on the finished products.

2 Delivery and site handling

2.1 The trays, accessories and installation instructions are packed in corrugated cardboard cartons or palletised when appropriate.

2.2 Each pack has the option of carrying a label bearing the BBA identification mark incorporating the number of this Certificate.

2.3 To prevent damage or surface contamination, they should be stored in a secure place in the original packaging.

2.4 Leaded trays should be lifted by the lead flashing and not by the back of the tray.

Safety

2.5 The conventional precautions for handling lead, defined in the HSE publication *Control of Lead at Work Regulations 1998 Approved Code of Practice, Regulations and Guidance*, should be observed when using cavity trays with lead flashing.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Timloc Everdry Stepped Cavity Trays.

Design Considerations

3 Use

Timloc Everdry Stepped Cavity Trays and accessories, when correctly specified and installed in accordance with this Certificate and with BS 5628-3 : 2005 and BS 8215 : 1991, will provide a satisfactory damp-proof course at the abutment of a pitched roof and a cavity wall of blockwork or stonework for cavity widths between 50 mm and 125 mm, and a minimum roof pitch of 7.5°.

4 Practicability of installation

The products should be installed by a bricklayer, experienced with this type of product.

5 Behaviour under load



The products will not adversely affect the ability of a wall to sustain and transmit compressive loads. However, the presence of a dpc can reduce the shear and tensile (and therefore bending) strengths of a wall and the effect of wind and other horizontal or upward forces should be considered at the design stage.

6 Resistance to passage of water



6.1 The trays do not form a continuous barrier against liquid water, but a 100 mm overlap between successive trays is sufficient to prevent penetration of water below the units when the trays are installed in accordance with this Certificate, BS 5628-3 : 2005 and BS 8215 : 1991.

6.2 Where the trays do not contact the inner leaf, care must be taken to ensure that the trays project far enough into the cavity to intercept any drips which originate from the wall ties.

7 Use with cavity wall insulation

Polypropylene and medium-density polyethylene have no effect on, and is unaffected by, materials currently used as cavity wall insulants. However, where the trays are not bonded to the inner leaf, they do not form a continuous mechanical barrier, and blown or injected insulation may penetrate from the cavity above to below the trays. This possibility must be considered when an in-situ applied cavity insulation is used.

8 Maintenance

As the products are confined within the wall and wall cavity and have suitable durability (see section 9), maintenance is not required. However, it must be ensured that damage occurring before enclosure is repaired (see section 12).

9 Durability



When installed correctly into the cavity, the trays will remain effective for the expected life of the building.

Installation

10 General

10.1 Timloc Everdry Stepped Cavity Trays may be installed in any weather that permits bricklaying, but can suffer damage if handled carelessly at freezing temperatures.

10.2 Trays must be laid between even beds of fresh mortar, and any perforations or frogs in adjacent courses should be filled with mortar.

10.3 Precautions are necessary when the cavities are cleaned, and include:

- use of cavity battens to reduce mortar droppings on the trays
- removal of mortar droppings before they harden, using a technique that avoids causing damage to the tray (use of steel rods, for example, should be avoided)
- inspection of trays for damage as the work proceeds.

10.4 Weepholes should be provided in the positions described in BS 5628-3 : 2005 and BS 8215 : 1991.

11 Procedure

11.1 The outer leaf is built up to 150 mm above the upper surface of the roof truss or other abutting structure, at its foot or equivalent to 75 mm above the finished roof line. The next course of the outer leaf is laid to fit the tray.

11.2 A stop end/starter tray is laid on an even bed of fresh mortar. It is arranged so that the upstand is in contact with the inner leaf, or projects sufficiently into the cavity to enable it to intercept drips originating from the wall ties.

11.3 Installation should continue progressively with the appropriate intermediate trays, with each successive tray overlapping the previous tray by 100 mm. Different pitches can be achieved by cutting bricks as required.

11.4 A ridge tray is installed in the same way at the top of the run.

11.5 Where pre-leaded trays are used, the flashing is dressed directly over the roof surface as required.

11.6 If flashing is required for unleaded trays, the joint below the tray is raked out and the flashing inserted to extend under the tray by a minimum of 25 mm. Wedges are inserted above the tray to ensure good contact between it and the flashing. The joint is repointed and the flashing dressed over the roof surface.

11.7 Flashings may be lead, or any other material covered by, and used in accordance with, a current BBA Certificate.

12 Repair

Damaged cavity tray units should be replaced prior to the installation of brick, block or masonry courses above the unit.

Technical Investigations

13 Tests

As part of the assessment leading to the issue of previous Certificates, tests were carried out to determine:

- specific gravity
- melt flow index
- Vicat softening point
- resistance to water penetration
- ease of installation
- impact resistance
- thermal distortion.

14 Investigations

14.1 The manufacturing process was examined, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

14.2 Visits were made to sites in progress to assess the practicability of installation.

14.3 User surveys have been carried out to ensure that the products are performing satisfactorily in service.

Bibliography

BS EN 12588 : 1999 *Lead and lead alloys — Rolled lead sheet for building purposes*

BS 5628-3 : 2005 *Code of practice for the use of masonry — Materials and components, design and workmanship*

BS 8215 : 1991 *Code of practice for design and installation of damp-proof courses in masonry construction*

15 Conditions

15.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is granted only to the company, firm or person named on the front page — no other company, firm or person may hold or claim any entitlement to this Certificate
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English law.

15.2 Publications and documents referred to in this Certificate are those that the BBA deems to be relevant at the date of issue or re-issue of this Certificate and include any: Act of Parliament; Statutory Instrument; Directive; Regulation; British, European or International Standard; Code of Practice; manufacturers' instructions; or any other publication or document similar or related to the aforementioned.

15.3 This Certificate will remain valid for an unlimited period provided that the product/system and the manufacture and/or fabrication including all related and relevant processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

15.4 In granting this Certificate, the BBA is not responsible for:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- individual installations of the product/system, including the nature, design, methods and workmanship of or related to the installation
- the actual works in which the product/system is installed, used and maintained, including the nature, design, methods and workmanship of such works.

15.5 Any information relating to the manufacture, supply, installation, use and maintenance of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used and maintained. It does not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the manufacture, supply, installation, use and maintenance of this product/system.