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Agrément Certificate

93/2937

Product Sheet 2 Issue 4

TIMLOC CAVITY TRAYS

TIMLOC EVERDRY STEPPED CAVITY TRAYS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Timloc Everdry Stepped Cavity Trays, used to form a damp-proof course (DPC) at the abutment of a pitched roof and a cavity wall of blockwork or stonework, for cavity widths between 50 and 125 mm and a minimum roof pitch of 7.5°.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

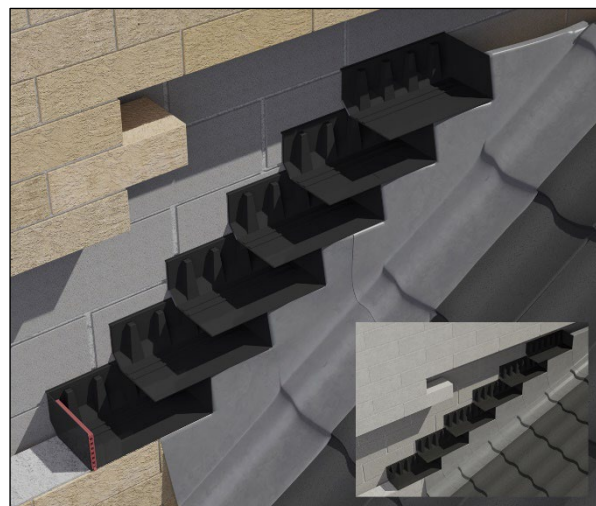
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



KEY FACTORS ASSESSED

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this 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 Fourth issue: 11 January 2024

Originally certified on 7 June 1996

A handwritten signature in black ink, appearing to read 'Giesler'.

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that Timloc Everdry Stepped Cavity Trays, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	A1	Loading
Comment:		The products can contribute to satisfying this Requirement when properly installed. The presence of a DPC, however, can reduce the shear and tensile strength of a wall at that location. See section 1 of this Certificate.
Requirement:	B4(1)	External fire spread
Comment:		The products are unrestricted by this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The products can contribute to satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The use of the products can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards - construction
Standard:	1.1(a)(b)	Structure
Comment:		The products can contribute to a construction satisfying this Standard with reference to clause 1.1.1 ⁽¹⁾⁽²⁾ . The presence of a DPC, however, can reduce the shear and tensile strength of a wall at that location. See section 1 of this Certificate.
Standard:	2.6	Spread on external walls
Comment:		The products are unrestricted by this Standard with reference to clauses 2.6.5 ⁽¹⁾ and 2.6.6 ⁽²⁾ . See section 2 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 section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The products can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.

Regulation:	12	Building standards - conversions
Comment:		All comments in relation to the products under Regulation 9, Standards 1 to 6, 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) 2012 (as amended)

Regulation:	23(1)(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	28(b)	Resistance to moisture
Comment:		The products can contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation:	30	Stability
Comment:		The products can contribute to satisfying this Regulation. The presence of a DPC, however, can reduce the shear and tensile strength of a wall at that location. See section 1 of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		The products are unrestricted by this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, Timloc Everdry Stepped Cavity Trays, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 6.1 *External masonry walls*.

Fulfilment of Requirements

The BBA has judged Timloc Everdry Stepped Cavity Trays to be satisfactory for use as described in this Certificate. The products have been assessed to form a DPC at the abutment of a pitched roof and a cavity wall of blockwork or stonework, for cavity widths between 50 and 125 mm and a minimum roof pitch of 7.5°.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the products under assessment. Timloc Everdry Stepped Cavity Trays are vacuum-formed from 2 mm medium-density polyethylene and have a ridged finish. The trays are available in left- and right-handed forms.

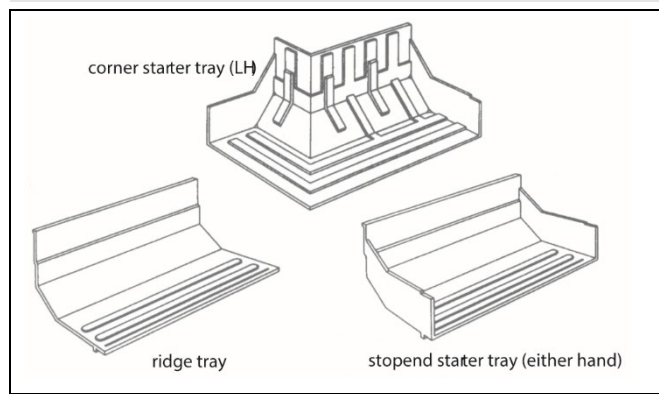
The products are available in a range of sizes as shown in Table 1 and Figure 1.

Table 1 Design and dimensions⁽¹⁾

Description	Length (mm)	Roof pitch (°)
150 mm stone coursing		
Intermediate tray ⁽¹⁾	450	≥25
	625	17.5-22.5
	1250	7.5-15.0
Stopend starter tray ⁽¹⁾	450	—
Corner starter tray ⁽¹⁾	550	—
Ridge tray	450	—
225 block/stone		
Intermediate tray ⁽¹⁾	625	≥25
	1250	12.5-22.5
Stopend starter tray ⁽¹⁾	450	—
Corner starter tray ⁽¹⁾	550	—
Ridge tray	625	—

(1) Intermediate, stopend and corner starter trays are available in left- and right-hand versions.

Figure 1 Examples of trays



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

(1) As defined by BS EN 12588 : 2006.

Ancillary Items

Butyl sealing tape is essential to use with the products, where required, and has been assessed with the products.

The Certificate holder recommends weeps for channelling water from a wall, but these materials have not been assessed by the BBA and are outside the scope of this Certificate.

Product assessment – key factors

The products were assessed for the following key factors, and the outcome of the assessments is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Data were assessed for the following characteristic.

1.1 Properties in relation to loading

On the basis of knowledge of the materials used in the products, and the guidance in PD 6697 : 2019 and BS 8215 : 1991, 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.

2 Safety in case of fire

Data were assessed for the following characteristic.

2.1 Reaction to fire

The Certificate holder has not declared a reaction to fire classification for the products to BS EN 13501-1 : 2018.

3 Hygiene, health and the environment

Data were assessed for the following characteristic.

3.1 Properties in relation to water

3.1.1 Results of properties in relation to water tests are given in Table 2.

Table 2 Results of properties in relation to water tests

Product assessed	Assessment method	Requirement	Result
Representative related product	Water vapour permeability to BS 3177 : 1959	Value achieved	0.2 g·m ⁻² ·(24h) ⁻¹
Representative related product	Resistance to water pressure to a BBA Method under a 6 m head of water	No leakage	Pass

3.1.2 The products 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 trays when they are installed in accordance with this Certificate.

3.1.3 Where the trays do not contact the inner leaf, although the top edge of the tray may not be in contact, any drips from wall ties will be intercepted by the tray.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the products were assessed.

8.2 Specific test data were assessed as given in Table 3.

Table 3 Results of durability tests

Product assessed	Assessment method	Requirement	Result
Relative Representative Product	Resistance to low temperature impact to a BBA Method tested at -7.5°C	Value achieved without cracking	2.94 N·m

8.3 Service life

Under normal service conditions, the products will remain effective for the life of the building in which they are installed, provided they are designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The design process was assessed by the BBA and the following requirements apply in order to satisfy the performance assessed in this Certificate.

9.1.2 The products must be designed in accordance with this Certificate and PD 6697 : 2019, BS EN 1996-1-1 : 2005, BS EN 1996-1-2 : 2005, BS EN 1996-2 : 2006, BS EN 1996-3 : 2006 and BS 8215 : 1991.

9.1.3 The effect of wind and other horizontal or upward forces on a wall must be considered by a suitably experienced and competent individual at the design stage.

9.1.4 Medium-density polyethylene has 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.

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out with care and in accordance with this Certificate and the Certificate holder's instructions.

9.2.3 The products can be installed in any weather that permits bricklaying, but can suffer damage if handled carelessly at freezing temperatures.

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

9.2.5 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.

9.2.6 Weep holes must be provided in every starter or corner starter tray.

9.2.7 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.

9.2.8 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.

9.2.9 Installation must 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.

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

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

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

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

9.3 Workmanship

Practicability of installation was assessed by the BBA and on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the products must be carried out by a competent general builder or bricklayer experienced with these types of products.

9.4 Maintenance and repair

9.4.1 As the products are confined within the wall and wall cavity and have suitable durability, maintenance is not required.

9.4.2 Any damage occurring before the products are enclosed must be replaced prior to the installation of brick, block or masonry courses above the tray.

10 Manufacture

10.1 The production processes for the products have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

11 Delivery and site handling

11.1 The Certificate holder stated that the trays, accessories and installation instructions are delivered to site packaged in corrugated cardboard cartons or on pallets, as appropriate.

11.2 Delivery and site handling must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.2.1 To prevent damage or surface contamination, the products must be stored in a secure place in the original packaging.

11.2.2 Leaded trays must be lifted by the lead flashing and not by the back of the tray.

11.2.3 The conventional precautions for handling lead, defined in the HSE publication *Control of Lead at Work Regulations 2002 Approved code of practice and guidance*, must be observed when using cavity trays with lead flashing.

Supporting information in this Annex is relevant to the product but has not formed part of the material assessed for the Certificate.

Construction (Design and Management) Regulations 2015

Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by BSI (Certificate Q 06236).

Bibliography

BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packaging*

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

BS EN 1996-1-1 : 2005 + A1 : 2012 *Eurocode 6 — Design of masonry structures — General rules for reinforced and unreinforced masonry structures*

BS EN 1996-1-2 : 2005 *Eurocode 6: Design of masonry structures — General rules — Structural fire design*

BS EN 1996-2 : 2006 *Eurocode 6: Design of masonry structures — Design considerations, selection of materials and execution of masonry*

BS EN 1996-3 : 2006 *Eurocode 6: Design of masonry structures Simplified calculation methods for unreinforced masonry structures*

BS EN 12588 : 2006 *Lead and lead alloys — Rolled lead sheet for building purposes*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

PD 6697 : 2019 *Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- 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.

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and 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.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue 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.

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