

## Timloc Building Products Limited

Timloc House  
Ozone Park  
Howden  
East Riding of Yorkshire DN14 7SD

Tel: 01405 765567

e-mail: technical@timloc.co.uk

website: www.timloc.co.uk



**Agrément Certificate**

**93/2937**

Product Sheet 1 Issue 4

### TIMLOC CAVITY TRAYS

### SYSTEM 2000E CAVITY TRAYS

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to System 2000E Cavity Trays, a range of remedial trays used to form a damp-proof course (DPC) in existing brick cavity walls of between 50 and 125 mm cavity width, at the horizontal abutment of a pitched roof, a flat roof, above lintels or below sills.

(1) Hereinafter referred to as 'Certificate'.

#### The assessment includes

##### Product factors:

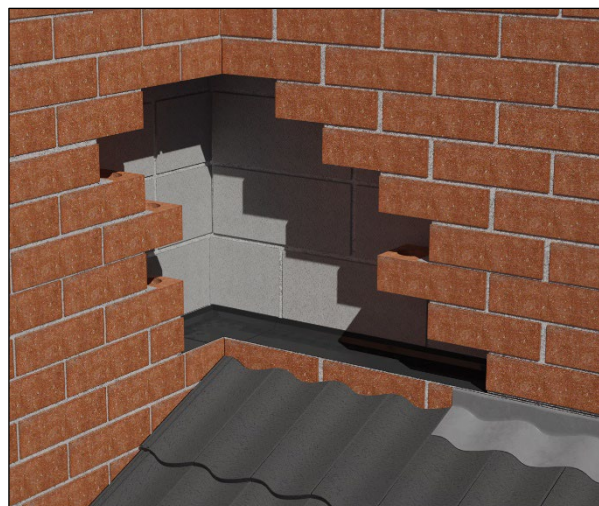
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

##### 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 27 August 1993

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.*

#### British Board of Agrément

1<sup>st</sup> Floor, Building 3, Hatters Lane  
Croxley Park, Watford  
Herts WD18 8YG

©2024

tel: 01923 665300  
clientservices@bbacerts.co.uk  
www.bbacerts.co.uk

## 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 System 2000E 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)

<b>Requirement:</b>	<b>A1</b>	<b>Loading</b>
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.
<b>Requirement:</b>	<b>B4(1)</b>	<b>External fire spread</b>
Comment:		The products are unrestricted by this Requirement. See section 2 of this Certificate.
<b>Requirement:</b>	<b>C2(b)</b>	<b>Resistance to moisture</b>
Comment:		The products can contribute to satisfying this Requirement. See section 3 of this Certificate.
<b>Regulation:</b>	<b>7(1)</b>	<b>Materials and workmanship</b>
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.



#### The Building (Scotland) Regulations 2004 (as amended)

<b>Regulation:</b>	<b>8(1)</b>	<b>Fitness and durability of materials and workmanship</b>
Comment:		The use of the products can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards - construction</b>
Standard:	1.1(a)(b)	Structure
Comment:		The products can contribute to a construction satisfying this Standard with reference to clause 1.1.1 <sup>(1)(2)</sup> . 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 <sup>(1)</sup> and 2.6.6 <sup>(2)</sup> . 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 <sup>(1)(2)</sup> and 3.10.4 <sup>(1)(2)</sup> . 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.

<b>Regulation:</b>	<b>12</b>	<b>Building standards - conversions</b>
<b>Comment:</b>	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 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> .	
	(1) Technical Handbook (Domestic).	
	(2) Technical Handbook (Non-Domestic).	



## The Building Regulations (Northern Ireland) 2012 (as amended)

<b>Regulation:</b>	<b>23(1)(a)(i)</b>	<b>Fitness of materials and workmanship</b>
<b>Comment:</b>	<b>(iii)(b)(i)</b>	The products are acceptable. See sections 8 and 9 of this Certificate.
<b>Regulation:</b>	<b>28(b)</b>	<b>Resistance to moisture</b>
<b>Comment:</b>		The products can contribute to satisfying this Regulation. See section 3 of this Certificate.
<b>Regulation:</b>	<b>30</b>	<b>Stability</b>
<b>Comment:</b>		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.
<b>Regulation:</b>	<b>36(a)</b>	<b>External fire spread</b>
<b>Comment:</b>		The products are unrestricted under this Regulation. See section 2 of this Certificate.

## Fulfilment of Requirements

The BBA has judged System 2000E Cavity Trays to be satisfactory for use as described in this Certificate. The products have been assessed as a range of remedial trays used to form a DPC in existing brick cavity walls of between 50 and 125 mm cavity width at the horizontal abutment of a pitched roof, a flat roof, above lintels or below sills.

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the products under assessment. System 2000E Cavity Trays are vacuum-formed from 2 mm medium-density polyethylene and have a textured surface. They are not built into the inner leaf, but may be bonded to the inner leaf, if required, using a butyl sealing tape.

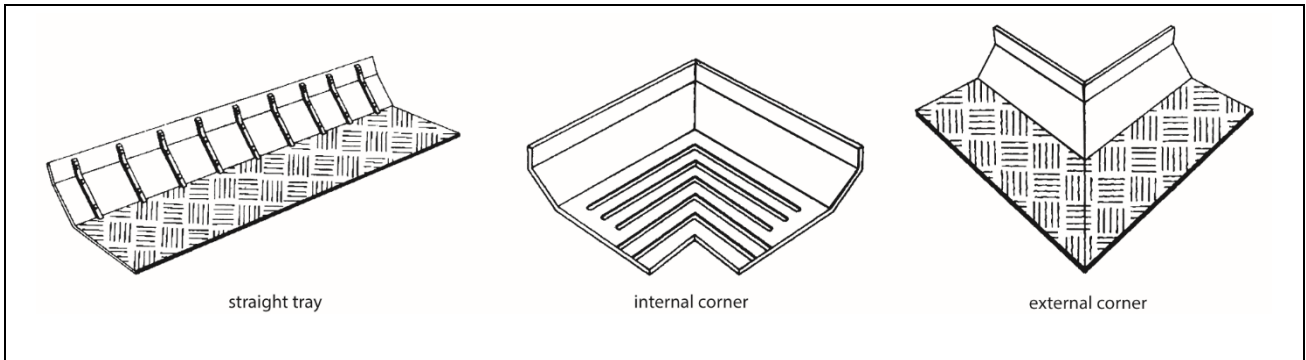
The products are available in a range of sizes as shown in Table 1 and Figure 1.

Table 1 Design and dimensions<sup>(1)</sup>

Description	Overall length/ effective length (mm)	Cavity widths (mm)		
		50-74	75-99	100-125
Horizontal	460/440	2005E/50	2005E/75	2005E/100
External 90° corner	—	2006E/50	2006E/75	2006E/100
Internal 90° corner	—	2007E/50	2007E/75	2007E/100

(1) Other sizes can be produced to special order to suit a particular installation.

Figure 1 Examples of trays



Each tray is fitted with butyl sealing tape, for sealing of all joints between trays.

### 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 the following ancillary items for use with the products, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- stop ends — for terminating a tray or run of trays and channelling water from a wall
- weeps — for channelling water from a wall.

## 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 <sup>-2</sup> ·(24h) <sup>-1</sup>
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 provide a continuous barrier against liquid water, when installed in accordance with this Certificate.

3.1.3 Where the trays are not sealed to 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
System 2000E Cavity Trays	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.

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 external leaf of the cavity walls must be built from standard brickwork and not exceed a thickness of 102.5 mm.

9.1.4 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.

9.1.5 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 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 Weep holes must be provided every 900 mm along the cavity tray. These can be formed by installing a purpose-made plastic wall weep unit.

9.2.6 The required number of bricks for the length of tray to be installed are removed from the required position, 150 mm above the feature.

9.2.7 A stop end is bonded to the first tray using the integral butyl sealing tape and the tray is laid on an even bed of mortar. The upstand of the tray may be fixed to the inner leaf, if required using a butyl sealing strip.

9.2.8 The bricks are replaced and the sequence is repeated, sealing all lap joints using the integral butyl strip. The run is terminated by fixing a second stop end in the appropriate position.

9.2.9 Trays over a lintel must extend at least 100 mm beyond each end of the lintel.

9.2.10 If flashing is required, 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 the tray and the flashing. The joint is repointed, and the flashing dressed over the roof surface.

9.2.11 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.

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.

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 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

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.