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## Agrément Certificate

18/5562

Product Sheet 1

### XPANDA EXPANDING JOINT SEALANT TAPE

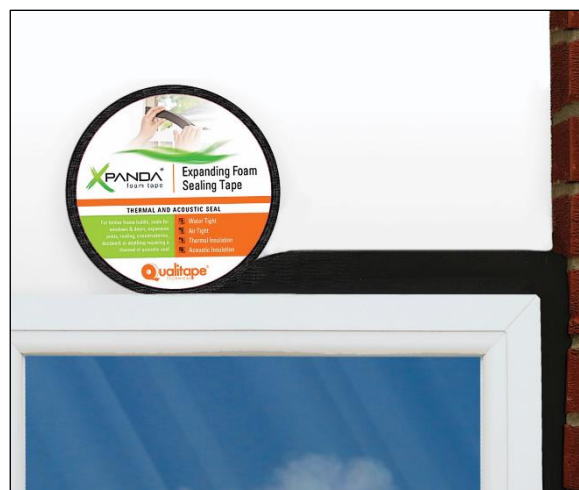
### XPANDA 600 FOAM TAPE

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Xpanda 600 Foam Tape, for use as a weathertight seal in structural and expansion joints in new or existing structural units of timber, plastics, masonry, metal, concrete and as perimeter seals for windows.

(1) Hereinafter referred to as 'Certificate'.

#### 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

**Weathertightness** — the product will resist the passage of wind-driven rain, snow, run-off water and dust into the interior of the building (see section 6).

**Durability** — the product will have a service life of up to 20 years (see section 8).



The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 12 September 2018

John Albon – Head of Approvals  
Construction Products

Claire Curtis-Thomas  
Chief Executive

*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](http://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.*

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

#### British Board of Agrément

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## Regulations

In the opinion of the BBA, Xpanda 600 Foam Tape, 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 presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



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

<b>Requirement:</b>	<b>C2(b)</b>	<b>Resistance to moisture</b>
Comment:		The product will contribute to a wall satisfying this Requirement. See sections 6.1 and 6.2 of this Certificate.
<b>Regulation:</b>	<b>7</b>	<b>Fitness of materials and workmanship</b>
Comment:		The product is an acceptable material. See section 8 and the <i>Installation</i> part of this Certificate.



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

<b>Regulation:</b>	<b>8(1)</b>	<b>Durability, workmanship and fitness of materials</b>
Comment:		The use of the product can contribute to satisfying the requirements of this Regulation. See section 8 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards applicable to construction</b>
Standard:	3.10	Precipitation
Comment:		The product will resist the effects of driving rain and enable an installation to satisfy the requirements of this Standard, with reference to clause 3.10.1 <sup>(1)(2)</sup> . See sections 6.1 and 6.2 of this Certificate.
Standard:	7.1(a)(b)	Statement of sustainability
Comment:		The product 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>
Comment:		Comments in relation to the product 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(a)(i)</b>	<b>Fitness of materials and workmanship</b>
Comment:	<b>(iii)(b)(i)</b>	The product is acceptable. See section 8 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>28</b>	<b>Resistance to moisture and weather</b>
Comment:		The product has adequate resistance to the ingress of rain and wind-driven spray, and so can contribute towards the wall satisfying this Regulation. See sections 6.1 and 6.2 of this Certificate.

# Construction (Design and Management) Regulations 2015 Construction (Design and Management) Regulations (Northern Ireland) 2016

In the opinion of the BBA, this Certificate does not include any content which relates to the obligations of the client, designer (including Principal Designer) and contractor (including Principal Contractor) under these Regulations.

## Additional Information

### NHBC Standards 2018

In the opinion of the BBA, Xpanda 600 Foam Tape, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 6.1 *External masonry walls* and 6.9 *Curtain walling and cladding*.

## Technical Specification

### 1 Description

1.1 Xpanda 600 Foam Tape consists of open-cell polyurethane foam impregnated with flame-retardant acrylic resins. On one side is an adhesive layer to aid installation, protected by a silicone release paper. The tape is available in black or grey.

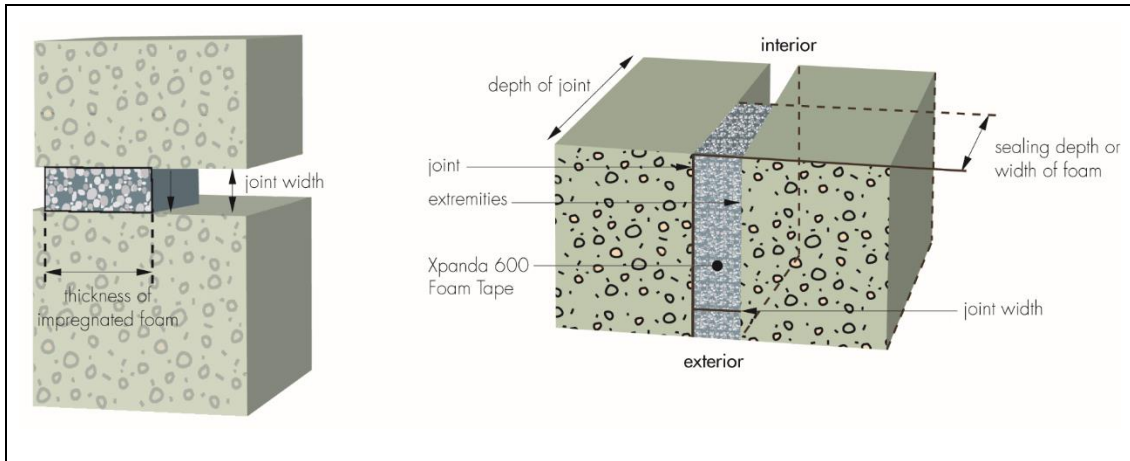
1.2 The dimensions of the tapes are given in Table 1.

*Table 1 Tape dimensions*

Xpanda 600 size/code no	Suitable joint depth (mm)	Suitable joint width (mm)
600 10 1-3	10	1-3
600 10 2-4	10	2-4
600 15 2-4	15	2-4
600 10 3-7	10	3-7
600 15 3-7	15	3-7
600 20 3-7	20	3-7
600 20 3-7	25	3-7
600 15 5-10	15	5-10
600 20 5-10	20	5-10
600 25 5-10	25	5-10
600 15 7-12	15	7-12
600 20 7-12	20	7-12
600 20 8-15	20	8-15
600 30 8-15	30	8-15
600 20 10-18	20	10-18
600 25 10-18	25	10-18
600 30 10-18	30	10-18
600 30 13-24	30	13-24
600 40 13-24	40	13-24
600 40 24-40	40	24-40

1.3 When fitted in a joint, the tape re-expands to fill and seal the joint (see Figure 1), providing a weathertight seal. The optimum final compression is 20% of the fully expanded thickness.

Figure 1 Typical tape installation



1.4 While on the roll, the adhesive layer is protected by a silicone release paper.

## 2 Manufacture

2.1 The product is manufactured by cutting blocks of open-cell polyurethane foam to the required thickness. These are then impregnated with flame-retardant resins and an adhesive layer is applied to one side of the foam. The impregnated foam is compressed to approximately 15% of its initial thickness prior to being cut into rolls of the required width.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out 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.

## 3 Delivery and site handling

3.1 The tape is supplied pre-compressed, wound onto rolls and secured by a leader tape.

3.2 The tape is delivered in cartons, the contents of which vary according to the size of the tapes, and bear the manufacturer's name and the tape size.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Xpanda 600 Foam Tape.

## Design Considerations

## 4 Use

4.1 Xpanda 600 Foam Tape is satisfactory for use to provide a weathertight and dust-tight seal to structural and expansion joints, in new or existing joints in structural units of timber, plastics, masonry, metal and concrete.

4.2 When particularly wide joints are to be sealed, two or more tapes may be superimposed to achieve the final overall compression of between 20 and 33% of the fully expanded dimension (typical tape sizes for various joint widths are given in Table 1).

## 5 Practicability of installation

The product is designed to be installed by a competent general builder or contractor experienced with this type of product.

## 6 Weathertightness



6.1 The product will resist the passage of water, wind-driven rain and dust into the interior of a building.

6.2 To achieve optimum resistance to water penetration, the tape should be used under 80% compression. However, the tape has satisfactory weathertightness if used at 75% compression.

6.3 The tape is not designed to withstand a head of water; in these situations the advice of the Certificate holder should be sought.

## 7 Maintenance

As the tape is confined within the wall and has suitable durability (see section 8), maintenance is not required.

## 8 Durability



The product will have a service life of up to 20 years.

## Installation

### 9 General

9.1 Installation of Xpanda 600 Foam Tape must be carried out in accordance with the Certificate holder's instructions. The tape may be installed in all conditions likely to occur in practice; however care should be taken when used at lower ambient temperatures.

9.2 Joints must be clean and free from debris (for example, dirt and mortar residue) likely to obstruct adhesion. The inner surfaces of the joints to be filled should be as smooth as possible. To achieve a perfect seal in masonry the changes in level at mortar joints must be as small as possible.

9.3 To ensure a weathertight seal, the tape size for the joint width should achieve at least 50% compression and be chosen in accordance with Table 1.

9.4 The tape will start to re-expand as soon as it is unwound from the roll. The rate of expansion is temperature dependent, and at low temperatures the rate can be increased by the gentle application of heat. At high temperatures the tapes should be stored in a cool environment prior to use.

### 10 Application

10.1 The dimensions of the joint to be filled govern the size of tape to be used, but the depth of the joint must not be less than the width of the tape. For particularly wide joints, two or more tapes may be used together.

10.2 When the tape is used to seal between prefabricated units during construction, the seal must be bonded to the unit already in position. The adjoining unit can then be fitted.

10.3 Joints should be designed, and the tapes positioned, to ensure that differential movement between panels does not tend to force the product out of the joint.

10.4 The length of the joint to be sealed must be measured and an overlap of 10 mm per metre run allowed when the tape is cut to the required length. The silicone release paper must be removed and the tape positioned in the joint before significant expansion of the tape occurs.

Figure 2 Typical end joints

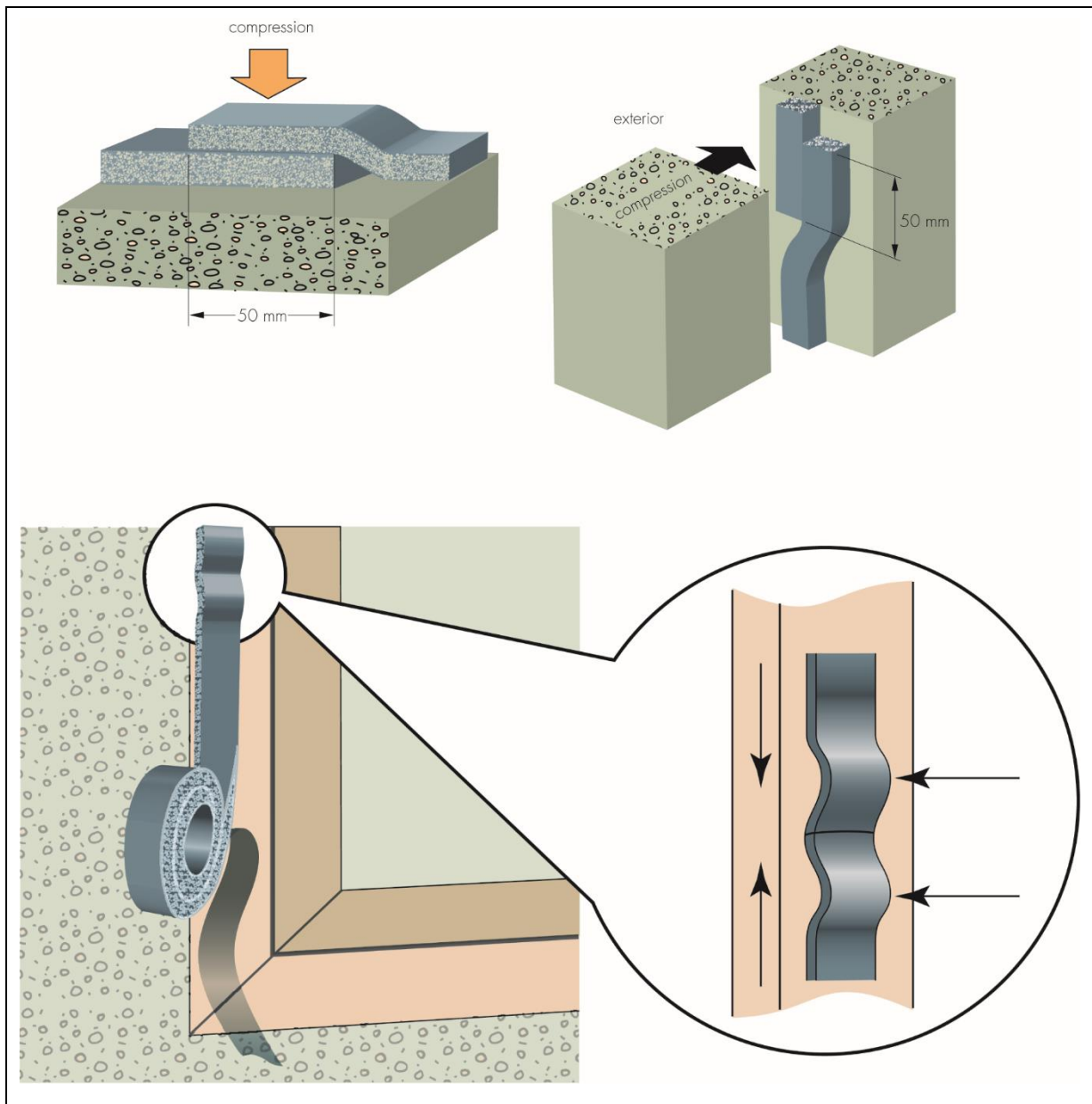
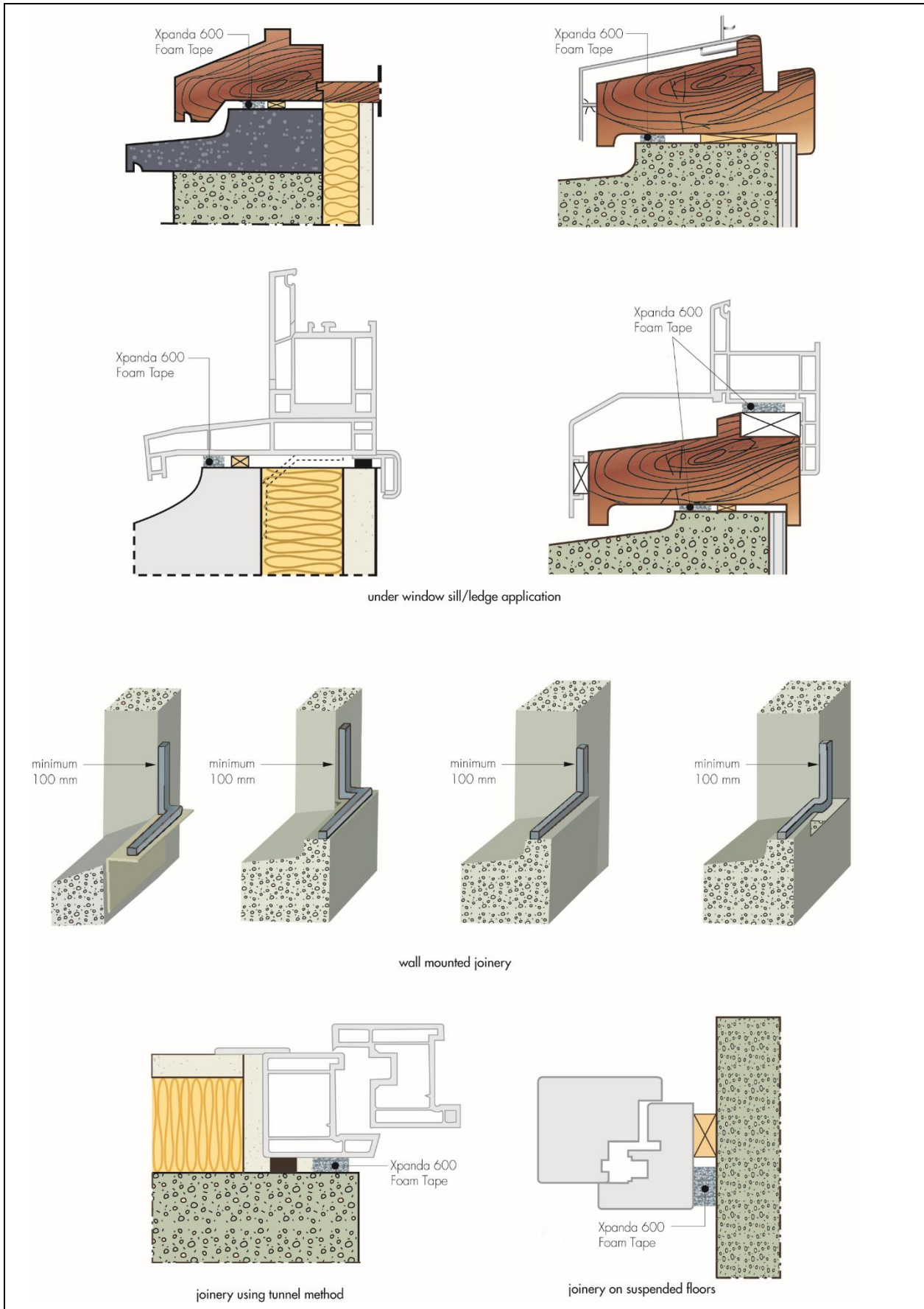


Figure 3 Typical installation details



### 11 Tests

Tests results were assessed by the BBA in relation to:

- air permeability coefficient at 10 Pa
- driving rain tightness of joints
- driving rain tightness of braces of joints
- resistance to change in temperatures
- resistance to UV radiation in the presence of moisture
- compatibility with adjoining construction materials
- reaction to fire
- water vapour diffusion coefficient
- width and thickness of fully expanded tape
- density of fully expanded tape
- tensile strength and elongation
- compression set.

### 12 Investigations

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



### 13 Conditions

#### 13.1 This Certificate:

- relates only to the product/system 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 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.

13.2 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.

13.3 This Certificate will remain valid for an unlimited period provided that the product/system 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.

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

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

13.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal 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, 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.