EXPANDING JOINT TAPE - DATASHEET

Identification of The Material Manufacture

Company Details:
Walther Strong & Company Ltd
Unit 3, Dysart Road
Autumn Business Park
NG31 7DD

Phone: 01780 437222
Website: www.waltherstrong.com
Email: enquiries@waltherstrongandco.com

Product Description

Expanding Joint Sealant Tape is used 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.

The Assessment Includes:

Product Factors

- Compliance with Building Regulations
- Compliance with additional regulatory or non-regulatory information where applicable
- Evolution 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

EXPANDING JOINT TAPE - DATASHEET

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

Summary of Assessment and Compliance

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

Compliance with Regulations

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

Requirement: C2(b) **Resistance to moisture**
Comment: The product will contribute to satisfying this requirement. See section 3 of this datasheet.

Requirement: 7(1) **Materials and workmanship**
Comment: The product is acceptable. See section 8 and 9 of this datasheet.

Requirement: L1(a)(i) **Conservation of fuel and power**
Comment: The product can contribute to minimising heat loss at lintels, jambs and sills. See section 6 of this datasheet

Regulation: 25B Nearly zero-energy requirements for new buildings
Regulation: 26 CO2 emission rates for new buildings
Regulation: 26A Fabric energy efficiency rates for new dwellings *(applicable to England only)*
Regulation: 26A Primary energy consumption rates for new buildings (applicable to Wales only)
Regulation: 26B Fabric performance values for new dwellings (applicable to Wales only)
Regulation: 26C Target primary energy rates for new buildings (applicable to England only)
Regulation: 26C Minimum energy efficiency rating (applicable to Wales only)
Comment: The product can contribute to satisfying these regulations. See section 6.

EXPANDING JOINT TAPE - DATASHEET

The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	**Fitness and durability of materials and workmanship**
Comment:		The use of this product can contribute to satisfying this regulation. See Sections 8 and 9.
Regulation:	9	**Building and standards - construction**
Standard:	3.10	Precipitation
Comment:		This product will contribute to satisfying this standard, with reference to clause 3.10.1(1)(2). See section 3 of this datasheet.
Standard:	6.1(b)(c)(d)	**Energy demand and carbon dioxide emissions**
Standard:	6.2	Building insulation envelope
Comment:		The product can contribute to minimising heat loss at lintels, jambs and sills, with reference to clause 6.1.1(1), 6.1.2(2), 6.2.4(1) and 6.2.5(2) of these standards. See section 6 of this datasheet.
Standard:	7.1(a)	**Statement of sustainability**
Comment:		The product can contribute to satisfying the relevant requirements of Regulation 9, standards 1 of 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this datasheet.
Regulation:	12	**Building standards - conversion**
Comment:		Comments in relation to this product 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)

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

Regulation:	23(a)(i)	**Fitness of materials and workmanship**
Comment:	(iii)(b)(i)	The product is acceptable. See section 8 and 9 of this datasheet.
Regulation:	28(b)	**Resistance to moisture and weather**
Comment:		The product can contribute to satisfying this regulation. See section 3.
Regulation:	39(a)(i)	**Conservation measures**
Regulation:	40(2)	**Target carbon dioxide emission rate**
Regulation	43(1)(2)	**Renovation of thermal elements**
Regulation:	43B	**Nearly zero-energy requirements of new buildings**
Comment:		The product can contribute to minimising heat loss at lintels, jambs and sills.

HEAD OFFICE - UNIT 3 AUTUMN BUSINESS PARK DYSART ROAD GRANTHAM NG31 7DD
T : 01780 437 222 E : ENQUIRIES@WALTHERSTRONGANDCO.COM W : WWW.WALTHERSTRONG.COM

EXPANDING JOINT TAPE - DATASHEET

Additional Information

NHBC Standards 2024

If installed, used and maintained in accordance with this datasheet, this product can satisfy or contribute to satisfying the relevant requirements in relation to NHBC Standards. Chapters 6.1 *External masonry*, 6.7 *Doors, windows and glazing walls* and 6.9 *Curtain walling and cladding*.

In Scotland, Northern Ireland and other areas of very severe exposure, check reveals should be used, and an appropriate sealant applied between the window frame and the structure.

Fulfilment of Requirements

The product has been assessed as a weathertight seal in structural and expansion joints in new and existing structural units of timber, plastics, masonry, metal, concrete and as perimeter seals for windows.

Assessment

Product description and intended use

The Certificate holder provided the following description for the product under assessment. Expanding Joint Sealant Tape consists of an open-cell polyurethane foam impregnated acrylic resins. On one side includes an adhesive layer to aid installation, protected by silicone release paper. The product is available in black and grey.

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.

The dimensions of the tapes are given in table 1.

EXPANDING JOINT TAPE - DATASHEET

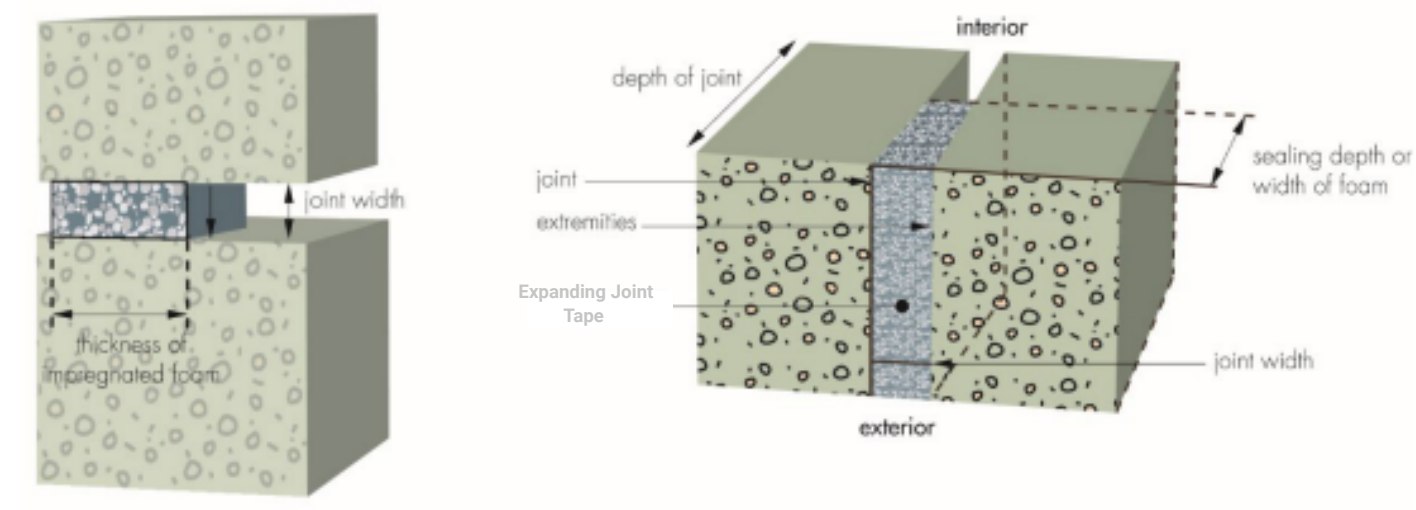
Table 1 - *Tape dimensions*

PRODUCT NAME	WIDTH (MM)	GAP SIZE (MM)	EXPANDED THICKNESS (MM)	LENGTH OF ROLL (M)
WS-SELFEX10MM1-3	10	1-3	9	12.5
WS-SELFEX15378M17 OR B-SELFEX-1-15X8	15	3-7	17	8
WS-SELFEX30378	30	3-7	17	8
WS-SELFEX/33546/10MM	10	7-12	33	4.3
WS-SELFEX/33546	25	7-12	33	4.3
B-SELFEX-2-30X4	30	7-12	33	4.3
B-SELFEX-3-30X2	30	13-24	72	2
B-SELFEX-4-30X2	30	24-40	123	2

HEAD OFFICE - UNIT 3 AUTUMN BUSINESS PARK DYSART ROAD GRANTHAM NG31 7DD
T : 01780 437 222 E : ENQUIRIES@WALTHERSTRONGANDCO.COM W : WWW.WALTHERSTRONG.COM

EXPANDING JOINT TAPE - DATASHEET

Figure 1 - *Typical installation*



Applications

The product is intended for use on the following substates:

- Concrete
- Brick
- Masonry
- Wood
- PVC-U
- Steel
- Aluminium

Product assessment - key factors

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

1.M**echanical resistance and stability**

Not applicable

2. Safety in case of fire

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

2.2 On the basis of data assessed, the use of the product is unrestricted in terms of height and distance to a relevant boundary by documents supporting the National Building Regulations.

2.3 Cavity barriers must be used to satisfy the requirements of the documents supporting the National Building Regulations.

3. Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in table 2.

Table 2 - *Weathertightness*

PRODUCT ASSESSED	ASSESSMENT METHOD	REQUIREMENT	RESULT
30 / 10-18 15mm joint width	Driving rain tightness of joints to DIN 18542 : 1999 Section 7.3,	No detectable water or moisture penetration up to a pressure of 600 Pa	Pass
30 / 10-18 15mm joint width	Driving rain tightness of joints to DIN 18542 : 1999 Section 7.4,	No detectable water or moisture penetration up to a pressure of 600 Pa	Pass

3.1.2 On the basis of the data assessed, the product will resist the passage of water, wind-driven rain and dust into the interior of the building.

3.1.3 The product satisfies the Class 9A requirement of BS EN 12208 : 2000.

3.2 Condensation

3.2.1 The result of a water vapour resistance tests is given in Table 3.

Table 3 - *Water Vapour Resistance*

PRODUCT ASSESSED	ASSESSMENT METHOD	REQUIREMENT	RESULT
30 / 10-18 15mm joint width	Water vapour diffusion coefficient to DIN 18542 : 1999 Section 7.9,	≤100	Pass

3.2.2 The product will not adversely affect the risk of interstitial condensation, provided they are used in conjunction with a suitable air and vapour control layer (AVCL)

4. Safety and accessibility in use

Not applicable

5. Protection against noise

Not applicable

6. Energy economy and heat retention

6.1 Airtightness

6.1.1 The result of an airtightness test is given in Table 3.

Table 3 - *Airtightness*

PRODUCT ASSESSED	ASSESSMENT METHOD	REQUIREMENT	RESULT
30 / 10-18 15mm joint width	Air permeability coefficient to DIN 18542 : 1999 Section 7.2,	≤ 0.1 m^3 $(h,m.(daPa)^{1.01})^{-1}$	Pass

6.1.2 The product is an air barrier and, when installed correctly, an contribute to junctions minimising heat loss by unplanned air infiltration. The air infiltration classification according to BS EN 12207 : 2016 for suitable windows used in supporting the National Building Regulations.

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 this product were assessed.

8.2 Specific test data were assessed as given in table 4.

Table 4 - *Durability*

PRODUCT ASSESSED	ASSESSMENT METHOD	REQUIREMENT	RESULT
40 / 24-40	Compression set to BS EN ISO 1856 : 2001 Method A	Value achieved	3.48%
40 / 24-40	Compression set to BS EN ISO 1856 : 2001 Method B Control Heat aged for 56 days at 80°C	Value achieved	4.71% 2.44%
30 / 10-18 12mm joint width	Compatibility with adjoining construction materials to DIN 18542 : 1999 Section 7.7,	Up to 80°C	Pass
10 / 2-4	Elongation to BS EN ISO 1798 : 2008 Control Heat aged for 56 days at 80°C	Value achieved	249.9% 103.7%
10 / 2-4	Tensile strength to BS EN ISO 1798 : 2008 Control Heat aged for 56 days at 80°C	Value achieved	150kPa 120kPa
30 / 10-18 9mm joint width	Resistance to change in temperature to DIN 18542 : 1999 Section 7.5,	No change to impair its function	Pass
30 / 10-18 12mm joint width	Resistance to UV radiation in the presence of moisture to DIN 18542 : 1999 Section 7.6,	No change to impair its function	Pass

8.3 Service life

Under normal service conditions, the product will have a service life of up to the 20 years, provided it is designed, installed and maintained in accordance with this certificate and the certificate holder's instructions