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Agrément Certificate
09/4697
Product Sheet 4 Issue 2

MAGMATECH LTD

TEPLO BF CHANNEL TIES

This Agrément Certificate Product Sheet(1) relates to Teplo BF Channel Ties, basalt fibre composite wall ties for use in tying masonry to steel anchor channels with M2 and moderately hydraulic lime mortar and, for Type 1 ties also M12 mortar, in new-build or retrofit constructions with a cavity width up to 359 mm (nominal).

(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 Second issue: 10 December 2025

Originally certified on 3 November 2021

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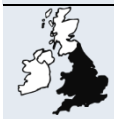
SUMMARY OF ASSESSMENT AND COMPLIANCE

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 Teplo BF Channel Ties, 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. See section 1 of this Certificate.
Requirement:	**B(3)1**	**Internal fire spread (structure)**
Comment:		The products can contribute to satisfying 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.
Requirement:	**L1(a)(i)**	**Conservation of fuel and power**
Comment:		The products can contribute to satisfying this Requirement. See section 6 of this Certificate.
Regulation:	**7(1)**	**Materials and workmanship**
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**7(2)**	**Materials and workmanship**
Comment:		The products are unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	**25B**	**Nearly zero-energy requirements for new buildings**
Regulation:	**26**	**CO_2 emission rates for new buildings**
Regulation:	**26A**	**Fabric energy efficiency rates for new dwellings (applicable to England only)**
Regulation:	**26A**	**Primary energy 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**	**Energy efficiency rating (applicable in Wales only)**
Comment:		The products can contribute to satisfying these Regulations. See section 6 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 sections 8 and 9 of this Certificate.
Regulation:	**8(3)**	**Fitness and durability of materials and workmanship**
Comment:		The products are unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	**9**	**Building standards – construction**
Standard:	1.1(a)(b)	Structure
Comment:		The products can contribute to satisfying this Standard. See section 1 of this Certificate.

Standard:	2.3	Structural protection
Standard:	2.6	Spread to neighbouring buildings
Comment:		The products can contribute to satisfying these Standards, with reference to clauses 2.3.1(1)(2), 2.3.2(1)(2) and 2.6.1(1)(2. See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The products can contribute to satisfying this Standard, with reference to clauses 3.10.1(1)(2) and 3.10.3(1)(2. See section 3 of this Certificate.
Standard:	6.1(b)(c)	Energy demand
Standard:	6.2	Building insulation envelope
Comment:		The products can contribute to satisfying these Standards, with reference to clauses 6.1.1(1), 6.1.2(2) , 6.2.1(1)(2), 6.2.3(1), 6.2.4(2) and 6.2.9(1)(2). See section 6 of this Certificate.
Standard:	7.1(a)(b)	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 at least a bronze level of sustainability as defined in this Standard.
Regulation:	**12**	**Building standards – conversion**
Comment:		All comments given for 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)**	**Fitness of materials and workmanship**
Comment:	**(i)(ii)(b)**	The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**23(2)**	**Fitness of materials and workmanship**
Comment:		The products are unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	**28(b)**	**Resistance to moisture and weather**
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. See section 1 of this Certificate.
Regulation:	**35(1)**	**Internal fire spread — Structure**
Comment:		The products can contribute to satisfying this Regulation. See section 2 of this Certificate.
Regulation:	**39(a)(i)**	**Conservation measures**
Regulation:	**40(2)**	**Target carbon dioxide emission rate**
Regulation:	**43(B)**	**Nearly zero-energy requirements for new buildings**
Comment:		The products can contribute to satisfying these Regulations. See section 6 of this Certificate.

Additional Information

NHBC Standards 2025

In the opinion of the BBA, Teplo BF Channel Ties, 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.*

The opinion of the BBA does not amount to any endorsement or approval by NHBC and does not in any way guarantee that NHBC will approve such product / system as compliant with the NHBC Technical Requirements and Standards.

Fulfilment of Requirements

The BBA has judged Teplo BF Channel Ties to be satisfactory for use as described in this Certificate. The products have been assessed as composite wall ties for use in tying masonry to steel anchor channels with M2 and moderately hydraulic lime mortar and, for Type 1 ties also M12 mortar, in new-build or retrofit constructions with a cavity width up to 359 mm (nominal).

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the products under assessment. Teplo BF Channel Ties are a range of basalt fibre composite wall ties comprising pultruded basalt fibres set into a resin matrix, with a helical ridge on the bar surface which acts as a drip feature (see Figure 1). Each Teplo BF channel tie has a moulded polymer piece at one end and a crimped stainless steel piece at the other end. Typical examples of the ties in use are shown in Figures 2 and 4.

The stainless steel end piece are three steel end pieces shapes (See Figure 1) designed into to fit and interlock with a variety of steel anchor channel profile systems (outside the scope of this Certificate): Ancon ‘28/15’ channel, Ancon ‘25/14’ channel and Ancon ‘21/18’ channel. See Figure 3 for Channel specifications and dimensions of profile.

The products have the nominal characteristics given in Tables 1, 2 and 3.

Table 1 Nominal characteristics of Teplo BF Channel Ties – 28/15 Channel

Name	Wall tie Type(1)	Diameter (mm)	Length (mm) (2)	Cavity width – face fixed channel (mm)	Cavity width – cast in channel (mm)
TEPLO BF-CT 28-150	1 - 4	7	150	85 - 109	70 - 94
TEPLO BF-CT 28-175	1 - 4	7	175	110 - 134	95 - 119
TEPLO BF-CT 28-200	1 - 4	7	200	135 - 159	120 - 144
TEPLO BF-CT 28-225	1 - 4	7	225	160 -184	145 - 169
TEPLO BF-CT 28-250	1 - 4	7	250	185 - 209	170 - 194
TEPLO BF-CT 28-275	1 - 4	7	275	210 - 234	195 - 219
TEPLO BF-CT 28-300	1 - 4	7	300	235 - 259	220 - 244
TEPLO BF-CT 28-325	1 - 4	7	325	260 - 284	245 - 269
TEPLO BF-CT 28-350	1 - 4	7	350	285 - 309	270 - 294
TEPLO BF-CT 28-375	1 - 4	7	375	310 - 334	295 - 319
TEPLO BF-CT 28-400	1 - 4	7	400	335 - 359	320 - 344

(1) Type classification as defined in PD 6697 : 2019.
(2) The Tie length is measured from the front of the channel to the end of the BF tie end.

Table 2 Nominal characteristics of Teplo BF Channel Ties – 25/14 Channel

Name	Wall tie Type(1)	Diameter (mm)	Length (mm) (2)	Cavity width – face fixed channel (mm)	Cavity width – cast in channel (mm)
TEPLO BF-CT 25-150	1 - 4	7	150	85 - 109	-
TEPLO BF-CT 25-175	1 - 4	7	175	110 - 134	-
TEPLO BF-CT 25-200	1 - 4	7	200	135 - 159	-
TEPLO BF-CT 25-225	1 - 4	7	225	160 - 184	-
TEPLO BF-CT 25-250	1 - 4	7	250	185 - 209	-
TEPLO BF-CT 25-275	1 - 4	7	275	210 - 234	-
TEPLO BF-CT 25-300	1 - 4	7	300	235 - 259	-
TEPLO BF-CT 25-325	1 - 4	7	325	260 - 284	-
TEPLO BF-CT 25-350	1 - 4	7	350	285 - 309	-
TEPLO BF-CT 25-375	1 - 4	7	375	310 - 334	-

(1) Type classification as defined in PD 6697 : 2019.
(2) The Tie length is measured from the front of the channel to the end of the BF tie end.

Table 3 Nominal characteristics of Teplo BF Channel Ties – 21/18 Channel

Name	Wall tie Type(1)	Diameter (mm)	Length (mm) (2)	Cavity width – face fixed channel (mm)	Cavity width – cast in channel (mm)
TEPLO BF-CT 21-150	1 - 4	7	150	-	70 - 94
TEPLO BF-CT 21-175	1 - 4	7	175	-	95 - 119
TEPLO BF-CT 21-200	1 - 4	7	200	-	120 - 144
TEPLO BF-CT 21-225	1 - 4	7	225	-	145 - 169
TEPLO BF-CT 21-250	1 - 4	7	250	-	170 - 194
TEPLO BF-CT 21-275	1 - 4	7	275	-	195 - 219
TEPLO BF-CT 21-300	1 - 4	7	300	-	220 - 244
TEPLO BF-CT 21-325	1 - 4	7	325	-	245 - 269
TEPLO BF-CT 21-350	1 - 4	7	350	-	270 - 294
TEPLO BF-CT 21-375	1 - 4	7	375	-	295 - 319

(1) Type classification as defined in PD 6697 : 2019.
(2) The Tie length is measured from the front of the channel to the end of the BF tie end.

Figure 1 Teplo BF Channel Ties - steel end pieces shapes

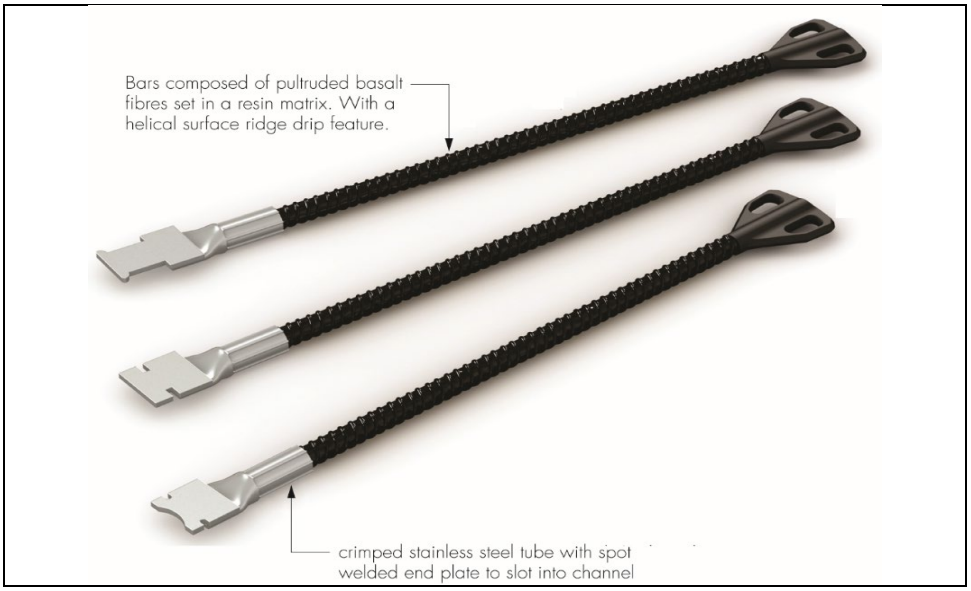


Figure 2 Teplo BF Channel Ties connections

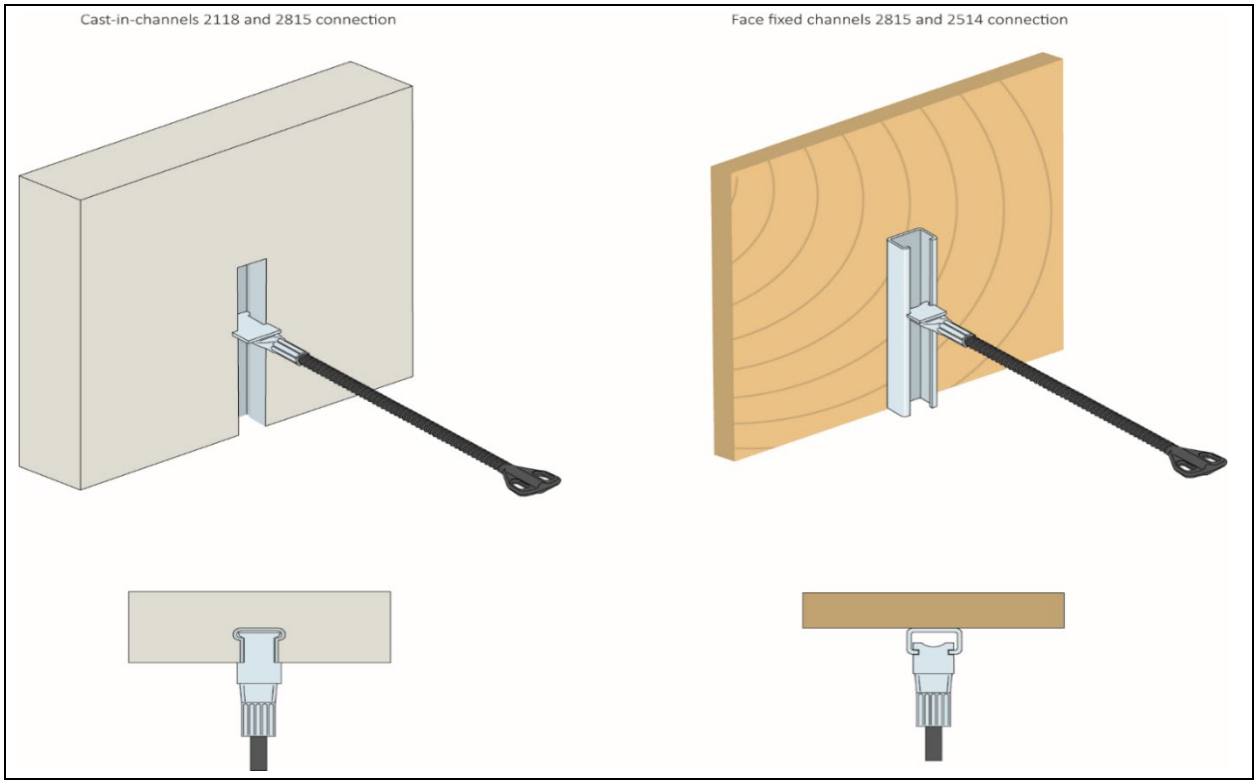
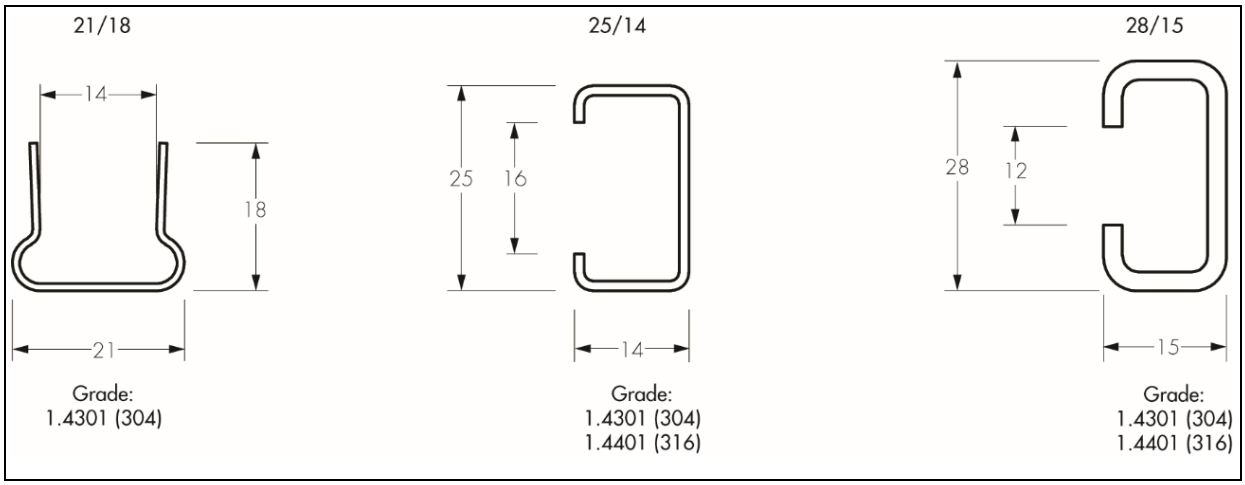


Figure 3 Anchor Channel specification and dimensions of profile



Ancillary Items

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:

- Ancon's Anchor Channels - minimum specifications and dimensions are shown in Figure 3
- Concrete wall — typical strength C25/C30 with Teplo BF Channel ties
- brick or block masonry units — to BS EN 771 : 2011, Parts 1 to 6
- Insulation.

Applications

The products are intended for use in cavity widths from 70 to 359 mm with a minimum design embedment depth of 56 to 80 mm in the masonry bed joint. The polymer end pieces enable use of the ties with weaker mortar types. The stainless steel end of the Teplo BF Channel Ties interlocking connection into the channel can either be face fixed (to timber, steel, concrete or blockwork) or cast into concrete (the channel is embedded in concrete during concrete casting).

Product assessment – key factors

The products were 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 Mechanical resistance and stability

Data were assessed for the following characteristics.

1.1 Mechanical properties

1.1.1 Results of compressive load capacity tests are given in Table 4.

Table 4 Compressive load resistance

Products assessed[(1)]	Assessment method	Requirement[(1)]	Result
TEPLO BF-CT 28 for 28/15 anchor channel	BS EN 846-5 : 2012, BS EN 845-1 : 2013 and PD 6697 : 2019	1050 N over a 150 - 300 mm cavity	Pass
		650 N over a 325 - 400 mm cavity	Pass
TEPLO BF-CT 25 for 25/14 anchor channel		1050 N over a 150 - 275 mm cavity	Pass
		650 N over a 300 - 375 mm cavity	Pass
TEPLO BF-CT 21 for 21/18 anchor channel		1050 N over a 150 - 300 mm cavity	Pass
		650 N over a 325 - 375 mm cavity	Pass

TEPLO BF to Channel tie types:
(1) Tie Type 2, 3 and 4

1.1.2 Results of tensile load capacity tests are given in Table 5.

Table 5 Tensile load resistance with M12 Mortar

Products assessed	Assessment method	Requirement[(1)]	Result
TEPLO BF-CT 28 for 28/15 anchor channel	BS EN 846-5 : 2012, BS EN 845-1 : 2013 and PD 6697 : 2019	5000 N over a 150 - 300 mm cavity	Pass

(1) Tie Type 1 in M12 mortar to PD 6697 : 2019.

Table 6 Tensile load resistance with M2 + hydraulic lime mortar

Products assessed	Assessment method	Requirement[(1)(2)]	Result
TEPLO BF-CT 28 for 28/15 anchor channel	BS EN 846-5 : 2012, BS EN 845-1 : 2013 and PD 6697 : 2019	2500 N over a 150 - 300 mm cavity	Pass
		2500 N over a 325 - 400 mm cavity	Pass
TEPLO BF-CT 25 for 25/14 anchor channel		1800 N over a 150 - 275 mm cavity	Pass
		1800 N over a 300 - 375 mm cavity	Pass
TEPLO BF-CT 21 for 21/18 anchor channel		2500 N over a 150 - 300 mm cavity	Pass
		2500 N over a 325 - 375 mm cavity	Pass

(1) Tie Type 1, 2, 3 and 4 in M2 mortar to PD 6697 : 2019.
(2) Tie Type 1, 2, 3 and 4 in Moderately Hydraulic Lime mortar to PD 6697 : 2019.

1.2 On the basis of data assessed, the wall ties are suitable for use as defined in PD 6697 : 2019, for the following applications:

- Tie Type 1 — Masonry: heavy duty
- Tie Type 3 — Masonry: general purpose
- Tie Type 3 — Masonry: basic
- Tie Type 4 — Masonry: light duty

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

The Certificate holder has not declared a reaction to fire classification in accordance with BS EN 13501-1 : 2018.

2.2 Resistance to fire

2.2.1 The result of a resistance to fire test at elevated temperatures is given in Table 7.

Table 7 Resistance to fire

Product assessed	Assessment method(1)	Requirement	Result(1)
Teplo BF Channel Wall ties under a tensile load of 1.8 kN	BS EN 846-6 : 2012 and BS EN 1996-1-2 : 2005	Value achieved	120 mins (integrity)

(1) Copies of test report are available on request to the Certificate holder.

2.2.2 On the basis of data assessed, the products will be unrestricted under the documents supporting the national Building Regulations.

2.2.3 In England and Wales, the products are unrestricted by Regulation 7(2), as an exempted material in Regulation 7(3).

2.2.4 Guidance on the fire-resistance of cavity walls is given in BS EN 1996-1-1 : 2005, BS EN 1996-1-2 : 2005, BS EN 1996-2 : 2006 and BS EN 1996-3 : 2006 and their UK national Annexes, and PD 6697 : 2019.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 The water-shedding details of the ties are effective in preventing the transfer of water across the ties to the inner leaf. The helical ridge feature is continuous, ensuring the drip function is always present in the centre of the wall cavity or residual cavity between the insulation and the external leaf of the wall.

3.1.2 On the basis of data assessed, the products will not adversely affect the resistance of the wall to the passage of moisture, when used in an external cavity wall, and will be unrestricted under the documents supporting the national Building Regulations.

3.2 Condensation

Walls must be designed to limit the risk of interstitial and surface condensation. Guidance must be obtained from BS 5250 : 2021 and BRE Report 262 : 2002.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Data were assessed for the following characteristics.

6.1 Thermal conductivity

6.1.1 The products achieved the thermal conductivities given in Table 8.

Table 8 Thermal conductivity

Product assessed	Assessment method	Requirement	Result
			Thermal conductivity $W \cdot m^{-1} \cdot K^{-1}$
Basalt Fibre (BFR) Tie bars(1)	PD 6697 : 2019, BS EN 1996-1-1 : 2005 and BS EN 1996-1-2 : 2005	Value achieved	0.71
Polymer End		Value achieved	0.22
stainless steel end		Value achieved	17.00

(1) Composite material for Teplo BF Channel Ties.

6.1.2 On the basis of the data assessed, the products have a low thermal conductivity and are unrestricted in use under the documents supporting the national Building Regulations.

6.2 Thermal performance

6.2.1 Calculations of thermal transmittance (U value), including corrections for channel ties if required, must be carried out in accordance with BS EN ISO 6946 : 2017 and BRE Report 443 : 2019 using the thermal conductivities given in Table 8 of this Certificate.

6.2.2 The U value of a completed cavity wall will depend on the selected insulation thickness, the insulating value of the substrate masonry and its internal finish.

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 Service life

Under normal service conditions, the products will have a life in excess of 60 years, 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 specified in this Certificate.

9.1.2 Teplo BF Channel Ties must be used in accordance with the requirements of BS EN 1996-1-1 : 2005, BS EN 1996-1-2 : 2005, BS EN 1996-2 : 2006, BS EN 1996-3 : 2006 and their UK National Annexes, and PD 6697 : 2019.

9.1.3 Structures of masonry walls incorporating the ties must be constructed in accordance with the following technical specifications:

- BS EN 1996-1-1 : 2005, BS EN 1996-1-2 : 2005, BS EN 1996-2 : 2006, BS EN 1996-3 : 2006 and their UK National Annexes, and PD 6697 : 2019.
- the national Building Regulations.

9.1.4 The masonry wall mortar joint thickness must be a minimum of 10 mm and in accordance with BS EN 845-1 : 2013. If the ties are to be used in mortar joints with a thickness greater than 13 mm, guidance must be obtained from the Certificate holder.

9.1.5 The anchor channels must be installed in accordance with the manufacturer's instructions using the sufficient number and type of fixings to provide adequate resistance to lateral forces. The channels may be face-fixed to concrete, timber, steel or masonry structures, or cast into concrete structures. Only anchor channels with a profile matching that of the stainless steel end piece must be used. The Certificate holder can provide guidance on the selection of appropriate anchor channels.

9.1.6 The products must be designed to have a minimum embedment length of 56 mm in accordance with BS EN 845-1 : 2013, in the outer leaf, and must be pressed down in, and surrounded by, fresh mortar. The type of tie as defined in PD 6697 : 2019 is determined according to the structural resistance of the individual ties and the tie spacing (number of ties per square metre). The tie spacing will depend on the channel strength and channel spacing. The Certificate holder can also provide guidance on channel spacings.

9.1.7 Ties can be inserted at any point in the channel and easily positioned to give the correct vertical centres. Installed ties must be clear of mortar droppings.

9.1.8 The products incorporate a helical ridge on the bar surface to prevent water transfer across the tie (see Figure 1).

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, the requirements of BS EN 1996-1-1 : 2005, BS EN 1996-1-2 : 2005, BS EN 1996-2 : 2006 and BS EN 1996-3 : 2006 and their UK National Annexes, and PD 6697 : 2019, and the Certificate holder's instructions.

Procedure

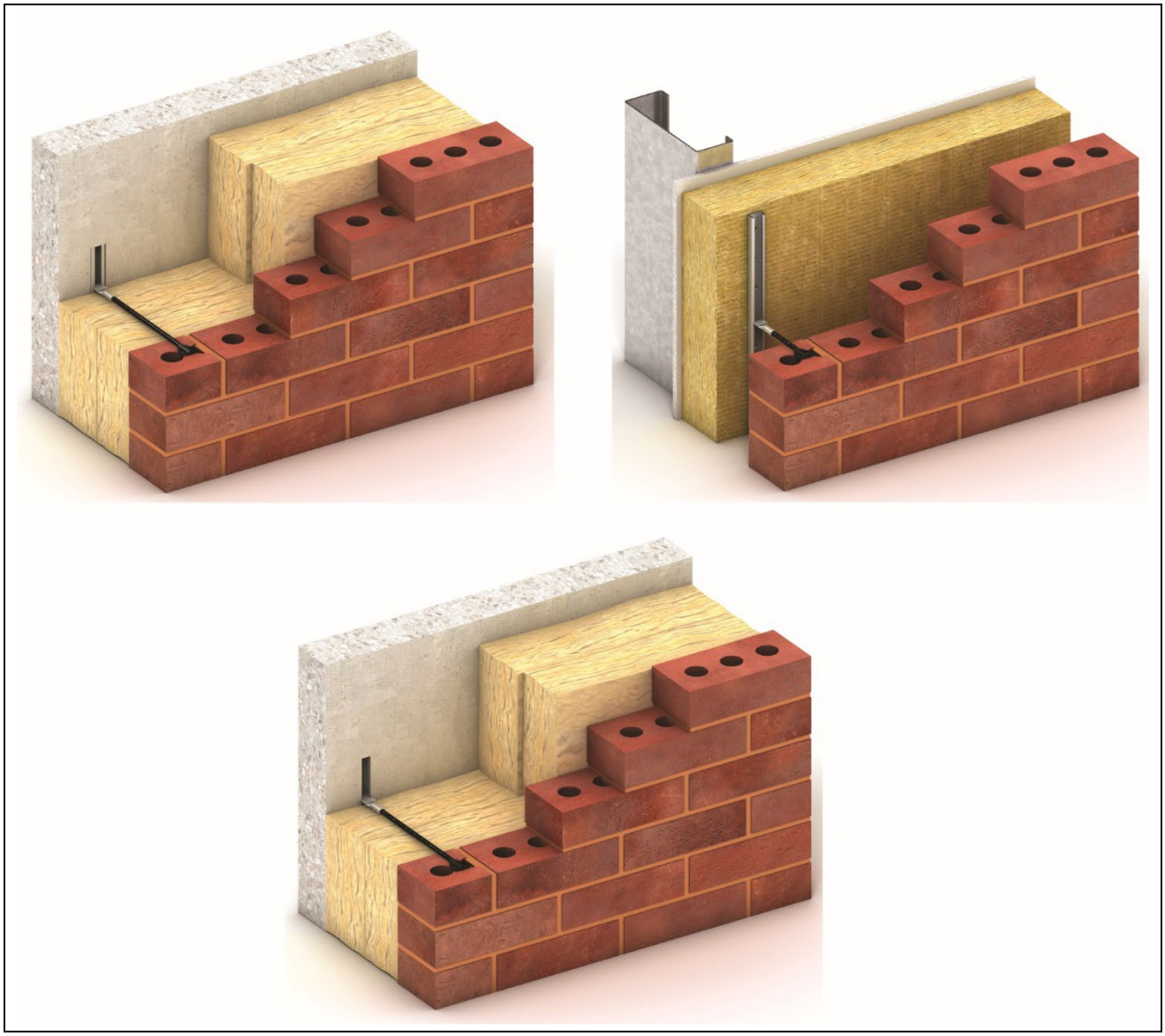
9.2.3 Ideally, the outer leaf brickwork should be kept one course clear during installation of the ties. The first run of ties is to be laid as near as possible to, though not directly on, the damp-proof course, and built into the brickwork and blockwork as construction proceeds.

9.2.4 The wall ties are sandwiched between brickwork and blockwork within the horizontal bed joint of the mortar. The ties are pressed down and buried within the mortar joint to ensure complete cover. The embedment length of the ties must be 56 to 80 mm.

9.2.5 The ties are placed horizontally or with a slight fall towards the outer leaf, and at right angles to the walls. Vertical adjustment is possible at the anchor channel end of the tie. Installed ties must be clear of mortar droppings to prevent water from crossing to the inner masonry leaf.

9.2.6 Typical installation details of Teplo BF Channel Ties are shown in Figure 4 .

Figure 4 Typical examples of Teplo BF Channel Ties in use



9.3 Workmanship

Practicability of installation was assessed by the BBA, 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 a contractor, experienced with these types of products.

9.4 Maintenance and repair

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

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 products are delivered to site in card boxes bearing the product name, Certificate holder's name, batch number, and weight of contents in kilograms.

11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate.

†ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the products 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 Polish Chamber of foreign Trade Certification (Certificate 459/2006).

Bibliography

BRE Report 262 : 2002 *Thermal insulation : avoiding risks*

BRE Report 443 : 2019 *Conventions for U-value calculations*

BS 5250 : 2021 *Code of practice for control of condensation in buildings*

BS EN 771-1 : 2011 + A1 : 2015 *Specification for masonry units — Clay masonry units*
BS EN 771-2 : 2001 + A1 : 2015 *Specification for masonry units — Calcium silicate masonry*
BS EN 771-3 : 2001 + A1 : 2015 *Specification for masonry units — Aggregate concrete masonry units (Dense and lightweight aggregates)*
BS EN 771-4 : 2001 + A1 : 2015 *Specification for masonry units — Autoclaved aerated concrete masonry units*
BS EN 771-5 : 2001 + A1 : 2015 *Specification for masonry units — Manufactured stone masonry units*
BS EN 771-6 : 2011 + A1 : 2015 *Specification for masonry units — Natural stone masonry units*

BS EN 845-1 : 2013 *Specification for ancillary components for masonry — Ties, tension straps, hangers and brackets*

BS EN 846-5 : 2012 *Methods of test for ancillary components for masonry — Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (couplet test)*
BS EN 846-6 : 2012 *Methods of test for ancillary components for masonry — Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (single end test)*

BS EN 1996-1-1 : 2005 *Eurocode 6 : Design of masonry structures — General rules for reinforced and unreinforced masonry structures*
NA to BS EN 1996-1-1 : 2005 + A1 : 2012 UK National Annex to *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*
NA to BS EN 1996-1-2 : 2005 UK National Annex to *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*
NA to BS EN 1996-2 : 2006 UK National Annex to *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*
NA + A1 : 2014 to BS EN 1996-3 : 2006 UK National Annex to *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 6946 : 2017 *Building components and building elements — Thermal resistance and thermal transmittance — Calculation method*

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
- 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
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

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
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- 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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