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BAW-19-114-P-A-UK
BDA Agrément®
Cavi-Mate and Easi-Close
Cavity Closers

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SCOPE OF AGRÉMENT

This Agrément relates to Cavi-Mate and Easi-Close cavity closers (hereinafter the 'Products'); pre-formed sub-frame cavity closer profiles, locators and frame formers enabling window frames to be installed whilst maintaining a square finish.

The Products are for use as thermally insulated cavity closers to close cavities around window reveals in external walls (masonry cavity walls and timber framed walls with a masonry outer leaf) and to provide a damp-proof barrier and thermal insulation in respect of the aperture.

The Products can be used in new or existing domestic buildings, and non-domestic buildings with similar temperature and humidity conditions.

PRODUCT DESCRIPTION

Cavi-Mate is a rigid un-plasticised polyvinyl chloride (hereinafter 'PVC-U') profile extrusion and expanded polystyrene (hereinafter 'EPS') white core infill insulation; it can be supplied in kit form for self-assembly (comprising three jamb lengths, two corner cleats, brick ties and jamb clips).

Easi-Close is a rigid PVC-U profile extrusion and extruded polystyrene (hereinafter 'XPS'), EPS silver or EPS white core infill insulation.

PRODUCT ILLUSTRATION



THIRD-PARTY ACCEPTANCE

NHBC - for detailed information see section 3.3 (Third-Party Acceptance).

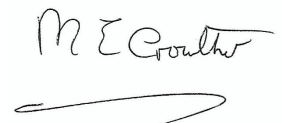
STATEMENT

It is the opinion of Kiwa Ltd., that the Products are fit for their intended use, provided they are specified, installed and used in accordance with this Agrément.

Chris Vurley, CEng
Technical Manager, Building Products



Mark Crowther, M.A. (Oxon)
Kiwa Ltd. Technical Director



SUMMARY OF AGRÉMENT

This document provides independent information to specifiers, building control personnel, contractors, installers and other construction industry professionals considering the fitness for the intended use of the Products. This Agrément covers the following:

- Conditions of use;
- Production Control, Quality Management System and the Annual Verification procedure;
- Product components and ancillary items, points of attention for the Specifier and examples of details;
- Installation;
- Independently assessed Product characteristics and other information;
- Compliance with national Building Regulations, other regulatory requirements and Third-Party Acceptance, as appropriate;
- Sources.

MAJOR POINTS OF ASSESSMENT

Moisture Control - the Products (see section 2.2.9):

- can contribute to limiting the risk of interstitial and surface condensation;
- have adequate resistance to water penetration.

Fire Performance - the Products are combustibile but will not reduce the fire resistance of a cavity wall (see section 2.2.10).

Thermal Performance - the Products increase the thermal insulation of the gap around openings in an external wall structure (see section 2.2.11).

Durability - the Products will have a service life durability equivalent to that of the structure into which they are incorporated (see section 2.2.12).

CE Marking - the Agrément holder has responsibility for CE marking in accordance with all relevant harmonised European Product Standards. An asterisk (*) appearing in this Agrément indicates value included in the Declaration of Performance (DoP) (see section 2.2.13).

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- 2.3 - Examples of details
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CHAPTER 1 - GENERAL CONSIDERATIONS

1.1 - CONDITIONS OF USE

1.1.1 Design considerations

See section 2.1.

1.1.2 Application

The assessment of the Products relates to their use in accordance with this Agrément and the Agrément holder's requirements.

1.1.3 Assessment

Kiwa Ltd. has assessed the Products in combination with relevant test reports, technical literature, the Agrément holder's quality plan, DoPs and site visit as appropriate. The NHBC Standards have also been taken into consideration.

1.1.4 Installation supervision

The quality of installation and workmanship must be controlled by a competent person who must be an employee of the installation company.

The Products must be installed strictly in accordance with the instructions of the Agrément holder and the requirements of this Agrément.

1.1.5 Geographical scope

The validity of this document is limited to England, Wales, Scotland and Northern Ireland, with due regard to chapter 3 of this Agrément (CDM, national Building Regulations and Third-Party Acceptance).

1.1.6 Validity

The purpose of this BDA Agrément® is to provide for well-founded confidence to apply the Products within the Scope described. The validity of this Agrément is three years after the issue date, and as published on www.kiwa.co.uk/bda.

1.2 - PRODUCTION CONTROL AND QUALITY MANAGEMENT SYSTEM

Kiwa Ltd. has determined that the Agrément holder fulfils all obligations in relation to this Agrément, in respect of the Products.

The initial audit demonstrated that the Agrément holder has a satisfactory Quality Management System (QMS) and is committed to continuously improving their quality plan. Document control and record keeping procedures were deemed satisfactory. A detailed Production Quality Specification (PQS) has been compiled to ensure traceability and compliance under the terms of this Agrément.

1.3 - ANNUAL VERIFICATION PROCEDURE - CONTINUOUS SURVEILLANCE

To demonstrate that the Product is in conformity with the requirements of the technical specification described in this Agrément, an Annual Verification procedure has been agreed with the Agrément holder in respect of continuous surveillance and assessment, and auditing of the Agrément holder's QMS.

This Agrément does not constitute a design guide for the Products. It is intended as an assessment of fitness for purpose only.

2.1 - PRODUCT COMPONENTS AND ANCILLARY ITEMS

2.1.1 Product components included within the scope of this Agrément

The following components are integral to the use of the Products:

Item	Description	Dimensions
Cavi-Mate	PVC-U profiled extrusion with white EPS insulation core; mechanically jointed using push-in corner cleats. Available in check reveal and robust reveal variants. Use with YBS polypropylene fixing clips for connection with masonry jambs and window cills	40 mm thick, 50 - 300 mm wide, supplied pre-cut to the required length
Easi-Close	PVC-U profiled extrusion with XPS, white EPS or silver EPS insulation. Two profiles available which can be cut along the pre-cut grooves to fit various cavity widths. Used either fastened to the window frame, built-in as work progresses or installed after the reveal has been constructed in masonry cavity walls	20 mm thick, two profiles 50 - 100 mm wide or 100 - 150 mm wide (up to 300 mm by combining both profiles), supplied in 2.4 m lengths

2.1.2 Ancillary items falling outside the scope of this Agrément

Ancillary items detailed in this section may be used in conjunction with the Products but fall outside the scope of this Agrément:

- wall ties;
- tension straps;
- hangers;
- brackets;
- cavity brick ties;
- corner cleats;
- jamb clips;
- grab adhesive.

2.2 - POINTS OF ATTENTION TO THE SPECIFIER

2.2.1 Design responsibility

A Specifier may undertake a project specific design in which case it is recommended that the Specifier co-operates closely with the Agrément holder. The Specifier or installing contractor is responsible for the final as-built design.

2.2.2 Applied building physics (heat, air, moisture)

The physical behaviour of the building incorporating the Products shall be verified as suitable by a competent specialist, who can be either a qualified employee of the Agrément holder or a qualified consultant. The Specialist will check the physical behaviour of the building design and if necessary, can offer advice in respect of improvements to achieve the final specification. It is recommended that the Specialist co-operates closely with the Agrément holder.

2.2.3 General design considerations

Wall design considerations

Existing external cavity walls shall be structurally sound, be in a good state of repair, and be free from any damp or mould.

New external cavity walls shall be designed and constructed in accordance with the national Building Regulations to resist moisture penetration and air infiltration.

The Product, when incorporated into masonry cavity walls, can be used in any exposure zone where the clear cavity width exceeds 50 mm (75 mm in very severe exposure zones in England and Wales where the outer leaf is fair faced masonry).

The surface of masonry cavity walls shall be free from loose material and large projections, with any holes filled and flush with the surface. The deviation in plane should be not greater than 5 mm under a 3 m straight steel edge.

Design detailing of joints around window openings should be in accordance with BS 6093.

A breather membrane should be installed on the external cold side of a sheathed timber framed wall with brick outer leaf.

The load imposed on and by a wall must be transferred directly to the main structure. The lintel should not bear directly onto the Products. The cavity closer shall be continuously supported.

Minimum periods of fire resistance including unprotected areas are defined in the documents supporting the national Building Regulations.

Fire rated cavity barriers:

- should be provided at the edges of cavities, including around windows openings and provide at least 30 minutes fire resistance;
- around openings may be formed by the window frame if the frame is constructed of steel or timber of a minimum thickness as defined in the documents supporting the national Building Regulations.

Account should be taken of:

- Government Accredited Construction Details for Part L - Masonry Cavity Wall insulation details, Masonry/Timber Frame Illustrations in England and Wales;
- Accredited Construction Details for Scotland;

- PAS 2030; and
- PAS 2035.

Guidance on linear thermal transmittance, heat flows and surface temperatures can be found in the documents supporting the national Building Regulations and BS EN ISO 10211, BRE Information Paper IP 1/06, BRE Report 262 and BRE Report 497.

The design and construction of junctions with the inner and outer wall leaves and openings shall minimise air infiltration and thermal bridging.

The external perimeter joint between the outer masonry leaf and the completed window frame must be weathertight. This should be achieved by sealing it with a proprietary neutral curing silicone sealant. If the joint gap is open at the back, this must be backed with polyethylene foam backing rod or a PVC flexible foam tape.

The internal reveal must be dry lined on plaster dabs to mask the insulation clip or internal leaf extrusion, and not plastered.

Wall void ventilation shall be in accordance with BS 5250.

Room space ventilation shall be in accordance with BS 5250. Care should be taken to provide adequate trickle ventilation, particularly in rooms expected to experience high humidity.

Any ventilation openings should be sufficiently small or suitably protected by mesh to prevent the ingress of birds and small animals.

The reveal lining board shall be well sealed to avoid condensation around the Products.

The Products can be used in rebated reveal details, with the outer leaf masking the edge of the window jamb.

Product considerations

The Products can be cut/trimmed using a fine-toothed saw.

Windows shall be installed immediately after installation of the Products to protect the Products from rain.

Where a plasterboard reveal lining is installed, it shall be designed and installed in accordance with BS 8212.

The Products shall be:

- suitably separated from any potential source of ignition during installation;
- separated from any heat-producing chimney, ductwork or flue pipe penetrations of an external wall, as recommended in the supporting documents to the national Building Regulations and shall not be in contact with heat sources greater than 80 °C.

The Products must be either fitted:

- into a wall cavity at the point of closure;
- at a cill or threshold; or
- into the cavity as it is raised, using the fixing and positioning clips.

The Products must be square, plumb and tight within the inner and outer leaf; the leaves must not exert pressure such that they distort the Products.

The internal reveal should be dry lined on plaster dabs to mask any exposed parts of the closer or any fixings.

The Products can be installed in a variety of ways at various stages during wall construction:

- after the reveal has been constructed;
- tacked to the window frame if built-in;
- built-in as work progresses.

2.2.4 Project specific design considerations

No pre-installation survey is required for the installation of the Products.

2.2.5 Permitted applications

Only applications designed according to the specifications given in this Agrément are permitted; in each case the Specifier will have to co-operate closely with the Agrément holder.

2.2.6 Installer competence level

The Products must be installed strictly in accordance with the instructions of the Agrément holder and the requirements of this Agrément.

Installation can be undertaken by competent persons experienced in this sort of work.

2.2.7 Delivery, storage and site handling

The Products are delivered to site in suitable packaging, that bears the name of the Products, the Agrément holder's name and the BDA Agrément® logo incorporating the number of this Agrément.

Store the Products in accordance with the Agrément holder's requirements. Particular care must be taken to:

- avoid exposure to direct sunlight for extended periods of time;
- avoid exposure to high or low temperatures for extended periods of time;
- store in a well-ventilated covered area to protect from rain, frost and humidity;

- store away from possible ignition sources;
- store on a firm, level base;
- store away from flammable material, organic solvents and plasticisers;
- protect from being dropped or crushed by objects;
- protect from mud and dirt.

For longer term protection on-site, the Products should be stored indoors.

Damaged, contaminated or wet Products shall not be used.

2.2.8 Maintenance and repair

Once installed, the Products do not require maintenance. The external wall finish must be maintained in a weathertight condition.

For advice in respect of repair, consult the Agrément holder.

Performance factors in relation to the Major Points of Assessment

2.2.9 Moisture control

Condensation risk

External walls incorporating the Products can adequately limit the risk of interstitial and surface condensation when designed and constructed in accordance with BS 5250 and BRE Report 262.

Water penetration

The Products:

- are protected from rainwater ingress by the window and frame sealants;
- have adequate resistance to water penetration.

2.2.10 Fire performance

The fire characteristics and performance of EPS and XPS insulation materials used in the Products is in accordance with BS 6203.

The Products:

- are combustible but will not contribute significantly to the growth of a fire;
- do not constitute a fire rated cavity barrier in respect of the penetration of smoke and flame;
- will not reduce the fire resistance of masonry and timber framed external cavity walls with outer brick leaf.

An external wall incorporating the Products can be designed to meet the requirements of the national Building Regulations.

When the Products are contained within a wall cavity, the Products will not contribute to the development stages of a fire or present a smoke or toxic hazard.

2.2.11 Thermal performance

The insulation infill has a declared thermal resistance in accordance with BS EN 12667.

The minimum thermal resistances have been calculated for the minimum thermal resistance paths as defined in BRE Information Paper IP 8/08.

The Products:

- meet the national Building Regulations minimum thermal resistance requirements (0.45 m²K/W);
- are effective in improving the thermal insulation of external cavity walls.

Thermal transmittance (U-value) calculations of specific external wall constructions incorporating the Products should be carried out in accordance with BS EN ISO 6946, BS EN ISO 10211, BRE Report 443. Design thermal values can be found in BS EN ISO 10456.

The requirement for limiting heat loss through an external wall, including the effect of thermal bridging, can be satisfied if the U-value of an external wall incorporating the Products does not exceed the target U-value requirement in the national Building Regulations.

2.2.12 Durability

The Products will have a service life durability equivalent to that of the structure into which they are incorporated.

The expected lifespan of the building itself should be at least 60 years.

The Products are stable, rot-proof, water-resistant, inert, non-toxic, do not sustain vermin or insects and will not encourage the growth of fungi or mould.

Once installed, the Products are protected in service from agents liable to cause deterioration.

2.2.13 CE Marking

There is no relevant harmonised European standard for the Products.

2.3 - EXAMPLES OF TYPICAL DETAILS

Diagram 1 - Cavi-Mate flush reveal detail

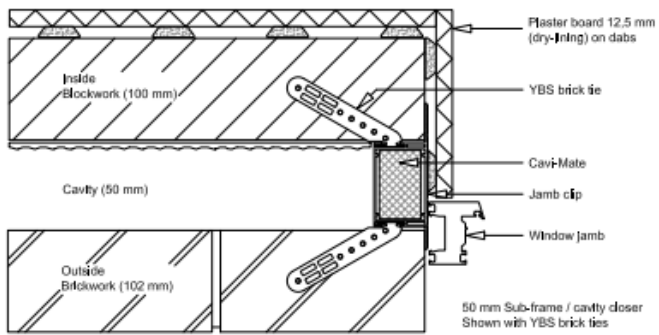


Diagram 2 - Cavi-Mate partial fill cavity detail

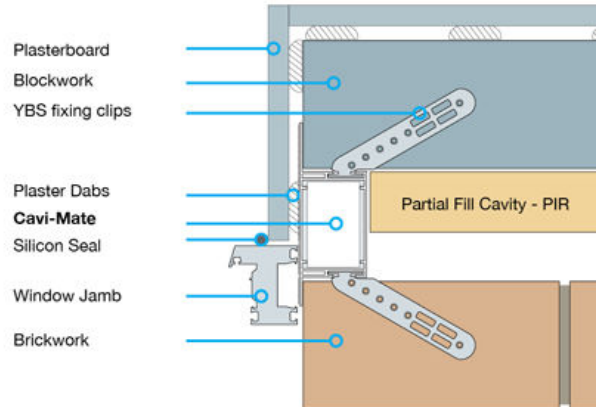


Diagram 3 - Cavi-Mate check reveal detail

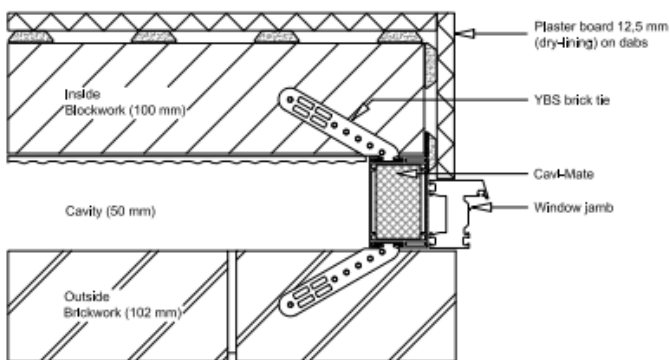
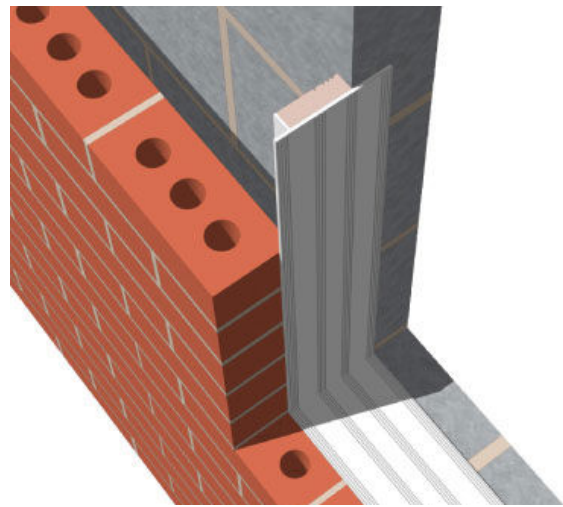


Diagram 4 - Easi-Close flush reveal detail



2.4 - INSTALLATION

The Products must be installed strictly in accordance with the instructions of the Agrément holder and the requirements of this Agrément.

2.4.1 Installer competence level

See section 2.2.6.

2.4.2 Delivery, storage and site handling

See section 2.2.7.

2.4.3 Project specific installation considerations

No pre-installation survey is required for the installation of the Products.

2.4.4 Preparation

The following factors shall be considered prior to the commencement of work:

- adjust wall opening gaps or remove any obstructions, so that the completed cavity surface is adequately smooth and flat;
- ensure that sufficient material is available for the planned work.

2.4.5 Outline installation procedure

The key sequence for installation is:

Cavi-Mate

- build inner and outer course of the wall up to the window cill level and locate the corner cleat of sub-frame into the cavity;
- build up one course of brick and blockwork and insert sub-frame brick ties at each side;
- build up to lintel height and set lintel;
- fit a minimum of two jamb clips to the outer window frame and clip the glazed window in place.

Easi-Close

- cut the product to the desired width using a knife;
- if the window has not yet been built in, install the Product to close the cavity (by fixing the inner and outer leaf using grab adhesive);
- if the window is already built into the wall, attach the Product to the window frame to close the cavity.

2.4.6 Finishing

The following finishing is required upon completion of the installation:

- install windows (if not already built into the wall);
- dry line internal reveal on plaster dabs to mask the insulation clip, in accordance with BS 8212;
- apply silicone sealant at plasterboard/window jamb junction.

2.5 - INDEPENDENTLY ASSESSED PRODUCT CHARACTERISTICS

2.5.1 Thermal performance

Test	Cavi-Mate (EPS White)	Easi-Close (XPS)	Easi-Close (EPS Silver)
Calculated minimum thermal resistance path (m ² K/W)	0.70	0.88	0.93

CHAPTER 3 - CDM, NATIONAL BUILDING REGULATIONS AND THIRD-PARTY ACCEPTANCE

3.1 - THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 AND THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS (NORTHERN IRELAND) 2016

Information in this Agrément may assist the client, Principal Designer/CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

3.2 - THE NATIONAL BUILDING REGULATIONS

In the opinion of Kiwa Ltd., the Products, if installed and used in accordance with Chapter 2 of this Agrément, can satisfy or contribute to satisfying the relevant requirements of the following national Building Regulations.

3.2.1 - ENGLAND THE BUILDING REGULATIONS 2010 AND SUBSEQUENT AMENDMENTS

- C2(c) Resistance to moisture - the Products can contribute to limiting the risk of surface and interstitial condensation
- J4 Protection of the building - the Products can be separated from heat producing appliances, flue pipes or chimneys to prevent a building from catching fire
- L1(a)(b) Conservation of fuel and power - the Products can contribute to satisfying this Requirement
- Regulation 7 Materials and workmanship - the Products are manufactured from suitably safe and durable materials for their application and can be installed to give satisfactory performance
- Regulation 23 Requirements relating to thermal elements - the use of the Products can contribute to the conservation of fuel and power in buildings by limiting heat gains and losses through external wall
- Regulation 25 Minimum energy performance Requirements for new buildings - the Products can contribute to the target CO₂ emission rates
- Regulation 26 CO₂ emission rates for new buildings - the Products can contribute to satisfying this Regulation
- Regulation 26A Fabric energy efficiency rates for new buildings - the Products can contribute to satisfying this Regulation

3.2.2 - WALES THE BUILDING REGULATIONS 2010 AND SUBSEQUENT AMENDMENTS

- C2(c) Resistance to moisture - the Products can contribute to limiting the risk of surface and interstitial condensation
- J4 Protection of the building - the Products can be separated from heat producing appliances, flue pipes or chimneys to prevent a building from catching fire
- L1(a)(b) Conservation of fuel and power - the Products can contribute to satisfying this Requirement
- Regulation 7 Materials and workmanship - the Products are manufactured from suitably safe and durable materials for their application and can be installed to give satisfactory performance
- Regulation 23 Requirements relating to thermal elements - the use of the Products can contribute to the conservation of fuel and power in buildings by limiting heat gains and losses through external wall
- Regulation 25 Minimum energy performance Requirements for new buildings - the Products can contribute to the target CO₂ emission rates
- Regulation 26 CO₂ emission rates for new buildings - the Products can contribute to satisfying this Regulation
- Regulation 26A Primary energy consumption rates for new buildings - the Products can contribute to satisfying this Regulation
- Regulation 26B Fabric performance values for new dwellings - the Products can contribute to satisfying this Regulation

3.2.3 - SCOTLAND THE BUILDING (SCOTLAND) REGULATIONS 2004 AND SUBSEQUENT AMENDMENTS

3.2.3.1 Regulations 8 (1)(2) Durability, workmanship and fitness of materials

- the Products are manufactured from acceptable materials and are adequately resistant to deterioration and wear under normal service conditions, provided they are installed in accordance with the requirements of this Agrément

3.2.3.2 Regulation 9 Building Standards - Construction

- 2.3 Structural protection - the Products can be separated from heat producing appliances, flue pipes or chimneys to prevent a building from catching fire
- 3.15 Condensation - external walls - the use of the Products in accordance with the Requirements of this Agrément, can be designed and constructed to comply with these Standards
- 3.19 Combustion appliances - relationship to combustible materials - the Products can be separated from heat producing appliances, flue pipes or chimneys to prevent a building from catching fire
- 6.1(b) Carbon dioxide emissions - the Products can contribute to satisfying this Requirement
- 6.2 Building insulation envelope - the Products can contribute to satisfying this Requirement
- 7.1(a)(b) Statement of sustainability - the Products can contribute to satisfying the relevant Requirements of Regulation 9, Standards 1 to 6, and therefore can contribute to a construction meeting a bronze level of sustainability as defined in this Standard; in addition, the Products can contribute to a construction meeting a higher level of sustainability as defined in this Standards

3.2.3.3 Regulation 12 Building Standards - Conversions

- all comments given under Regulation 9 also apply to this Regulation, with reference to Schedule 6 of the Building (Scotland) Regulations 2004 and subsequent amendments, clause 0.12 of the Technical Handbook (Domestic) and clause 0.12 of the Technical Handbook (Non-Domestic)

3.2.4 - NORTHERN IRELAND

THE BUILDING REGULATIONS (NORTHERN IRELAND) 2012 AND SUBSEQUENT AMENDMENTS

- 23(a)(i)(iii)(b) Fitness of materials and workmanship - the Products are manufactured from materials which are considered suitably safe and acceptable for use as thermal insulation
- 29 Condensation - the Products can contribute to limiting the risk of surface and interstitial condensation
- 39(a)(i) Conservation measures - the Products can contribute to limiting heat gains and losses through a wall
- 40(2) Target carbon dioxide emission rates - a wall incorporating the Products must be designed and constructed as not to exceed its target CO₂ emission rate
- 43 Renovation of thermal elements - the renovation work carried out can ensure that external wall complies with Requirement 39(a)(i)
- 73(1) Protection of people and buildings - the Products can be separated from heat producing appliances, flue pipes or chimneys to prevent a building from catching fire

3.3 - THIRD-PARTY ACCEPTANCE

NHBC - In the opinion of Kiwa Ltd., the Products, if installed, used and maintained in accordance with this Agrément, can satisfy or contribute to satisfying the relevant requirements in relation to NHBC Standards, Chapter 6.1 External masonry walls.

CHAPTER 4 - SOURCES

- BS EN ISO 6946:2017 Building components and building elements. Thermal resistance and thermal transmittance. Calculation methods
- BS EN ISO 10211:2017 Thermal bridges in building construction. Heat flows and surface temperatures. Detailed calculations
- BS EN ISO 10456:2007 Building materials and products. Hygrothermal properties. Tabulated design values and procedures for determining declared and design thermal values
- BS EN 12667:2001 Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Products of high and medium thermal resistance
- BS 5250:2011+A1:2016 Code of practice for control of condensation in buildings
- BS 6093:2006+A1:2013 Design of joints and jointing in building construction. Guide
- BS 6203:2003 Guide to fire characteristics and fire performance of expanded polystyrene materials (EPS and XPS) used in building applications
- BS 8212:1995 Code of practice for dry lining and partitioning using gypsum plasterboard
- Accredited construction details (Scotland) - Part 3 Timber frame construction details: 2015
- BRE Information Paper 1/06:2006 Assessing the effects of thermal bridging at junctions and around openings
- BRE Information Paper 8/08:2008 Determining the minimum thermal resistance of cavity closers
- BRE Report 262:2002 Thermal insulation: avoiding risks
- BRE Report 443:2006 Conventions for U-value calculations
- BRE Report 497:2016 Conventions for Calculating Linear thermal transmittance and Temperature Factors
- Government Accredited Construction Details for Part L:2019 - Masonry/Timber Frame Illustrations in England and Wales
- NHBC Standards 2020
- PAS 2030:2019 Specification for the installation of energy efficiency measures in existing dwellings and insulation in residential park homes
- PAS 2035:2019 Retrofitting dwellings for improved energy efficiency. Specification and guidance

Remark: apart from these sources, technical information and confidential reports have been assessed; any relevant documents are in the possession of Kiwa Ltd. and kept in the Technical Assessment File of this Agrément. The Installation Manual for the Product may be subject to change, the Agrément holder should be contacted for clarification of revision.

CHAPTER 5 - AMENDMENT HISTORY

Revision	Amendment Description	Amended By	Approved By	Date
-	First Issue	C Devine	C Vurley	May 2021