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BAW-20-164-P-A-UK
BDA Agrément®
NoMorePly 12mm Fibre Cement
Construction Board
Flat Sheet Building Board

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SCOPE OF AGRÉMENT

This Agrément relates to NoMorePly 12mm Fibre Cement Construction Board (hereinafter the 'Product'), a fibre-cement flat sheet building board. The Product is for non-structural use as an internal lining board or as an external sheathing board on light gauge steel frame (hereinafter 'LGSF') and structural timber frame (hereinafter 'STF') supporting walls of new and existing dwellings and buildings other than dwellings. The Product can also be used as a render carrier board. A proprietary direct render or wall cladding system shall hold its own verification of performance.

DESCRIPTION

The Product consists of Portland cement and organic reinforcing fibres, manufactured in accordance with BS EN 12467.

ILLUSTRATION



THIRD-PARTY ACCEPTANCE

See Section 3.3 (Third-Party Acceptance).

STATEMENT

It is the opinion of Kiwa Ltd., that the Product is safe and fit for its intended use, provided it is specified, installed and used in accordance with this Agrément.

Craig Devine
Operations Manager, Building Products

Alphoe Mlotha CEng FIMMM MBA
Business Unit Manager, Building Products

SUMMARY OF AGRÉMENT

This document provides independent information to specifiers, building control personnel, contractors, installers and other construction industry professionals considering the safety and fitness for the intended use of the Product. 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

Strength - the Product can be incorporated in a building subject to typical wind actions encountered in the UK (see section 2.2.9).

Moisture control - the Product has adequate resistance to moisture (see section 2.2.10).

Fire performance - the Product is classified as European Classification A1, in accordance with BS EN 13501-1 (see section 2.2.11).

Durability - the Product shall have a service life durability equivalent to that of the building into which it is incorporated (see section 2.2.12).

UKCA and CE marking - the Agrément holder has responsibility for conformity marking, in accordance with all relevant British and European Product Standards (see section 2.2.13).

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CHAPTER 1 - GENERAL CONSIDERATIONS

1.1 - CONDITIONS OF USE

1.1.1 Design considerations

See section 2.2.

1.1.2 Application

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

1.1.3 Assessment

Kiwa Ltd. has assessed the Product in combination with relevant test reports, technical literature, the Agrément holder's quality plan, DoPs and site visit as appropriate.

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 Product shall 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 Product 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 Product.

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 conforms 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 Product. It is intended as an assessment of safety and fitness for purpose only.

2.1 - PRODUCT COMPONENTS AND ANCILLARY ITEMS

2.1.1 Components included within the scope of this Agrément

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

Product	Description	Dimensions
NoMorePly 12mm Fibre Cement Construction Board	fibre-cement flat sheet building board comprising ordinary Portland cement reinforced with organic fibres; mean density 1,280 kg/m ³	1,200 mm by 800 or 2,400 mm, 12 mm thick

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 Product but fall outside the scope of this Agrément:

- LGSF or STF - supporting wall;
- joint tape - for sealing butt joints;
- intumescent joint compound - for filling open butt joints;
- mechanical fixings.

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)

A competent specialist shall check the hygrothermal behaviour of a project specific design incorporating the Product and, if necessary, can offer advice in respect of improvements to achieve the final specification. The Specialist can be either a qualified employee of the Agrément holder or a suitably qualified consultant (in which case it is recommended that the consultant Specialist co-operates closely with the Agrément holder).

2.2.3 General design considerations

The supporting wall shall be structurally sound, designed and constructed in accordance with the requirements of the relevant national Building Regulations and Standards, namely:

- BS EN 1090-2;
- BS EN 1993-1-1;
- BS EN 1993-1-3;
- BS EN 1995-1-1;
- BS EN 14081-1.

During construction the Product shall:

- be covered with a breather membrane; without a covering, water can penetrate a wall via taped butt joints, fasteners and penetrations (e.g. flues, ducts);
- include appropriate detailing with respect to damp proofing at penetrations, openings, eaves and sole plates;
- include a drained cavity between the breather membrane and cladding. The width of the drained cavity is determined by the cladding finish and shall be a minimum of 15 mm.

When used as sheathing at the warm side of LGSF or STF supporting walls, a vapour control layer (VCL) shall be used at the interior (warm) side of the external wall to limit the risk of interstitial condensation.

LGSF and STF studs shall have minimum dimensions specified by a suitably qualified engineer.

Studding and framing shall be adequately supported by noggins to ensure rigidity.

Fixings for use with:

- LGSF studs shall:
 - be self/drilling and self-countersinking, wingtip or similar, stainless steel screws (or suitably treated against corrosion);
 - have minimum dimensions of 4.8 mm diameter by 38 mm long;
 - have a maximum spacing of 300 mm at the perimeter and 400 mm to the intermediate studs.
- STF studs shall:
 - be self/drilling and self-countersinking or similar, stainless steel screws (or suitably treated against corrosion);
 - have minimum dimensions of 4.2 mm diameter by 42 mm long;
 - have a maximum spacing of 150 mm at the perimeter and 300 mm to the intermediate studs.

Fixings through the Product shall be located at least 50 mm from the corners and 20 mm from the edges.

Any external finishes/cladding applied shall be such that the cavity satisfies the minimum cavity width required by any relevant third-parties.

2.2.4 Project-specific design considerations

The project-specific design shall take into account the service life durability required - see section 2.2.12.

The project-specific design shall take into account the requirements of the national Building Regulations - see section 3.2.

No pre-installation survey is required.

For the purpose of thermal transmittance (hereinafter 'U-value') calculations for a completed wall construction, and to determine if the requirements (of legislation or other statutes) are met, the thermal resistances of wall assemblies shall be calculated in accordance with BS EN ISO 6946, BRE Report 443 and BS 5250 as appropriate.

The Product can limit the air permeability of a wall when all butt joints and penetrations are properly sealed using joint tape.

2.2.5 Permitted applications

Only applications designed according to the specifications given in this Agrément are permitted. In each case, the Specifier and Installer shall co-operate closely with the Agrément holder.

2.2.6 Installer competence level

The Product shall 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 Product is delivered to site in suitable packaging, bearing the Product name, the Agrément holder's name and the BDA Agrément® logo incorporating the number of this Agrément.

Prior to installation, store the Product in accordance with the Agrément holder's requirements. Good housekeeping protocols shall be followed to avoid damage.

The Product shall be:

- received palletised in a dry state, with pallets protected from weather with plastic sheeting or similar;
- stored flat on elevated pallets in a well-ventilated, covered area, protected from rain, frost, humidity and damp.

When manually handling the Product, it shall be carried vertically.

2.2.8 Maintenance and repair

Once installed, the Product does not require regular maintenance. For advice in respect of repair, consult the Agrément holder.

Performance factors in relation to the Major Points of Assessment

2.2.9 Strength

Wind actions shall be calculated in accordance with BS EN 1991-1-4. Special consideration shall be given to locations with high wind-load pressure coefficients, as additional fixings may be necessary.

The Product:

- has been tested for pull-out resistance of fixings (see section 2.5.1);
- meets the requirements for Category A, Class 2 fibre-cement boards, in accordance with BS EN 12467 (see section 2.5.1).

The Product contributes to the racking resistance of a supporting wall, if incorporated. For the design racking resistance of a supporting wall, a partial safety factor of 1.3 and a modification factor k_{mod} shall be used in accordance with BS EN 1995-1-1 (see section 2.5.1).

Specifiers shall ensure that the LGSF or STF supporting wall incorporating the Product has adequate strength to resist all lateral (and any other) loads.

Cladding support brackets and any other applied loads shall be fixed back through the Product to the LGSF or STF supporting wall.

2.2.10 Moisture control

Water impermeability

The Product meets the requirements of Category A with regards to water impermeability when tested in accordance with BS EN 12467.

External walls shall have suitable weather protection on the outside and a ventilated cavity shall be provided. The Product shall be treated as a conventional sheathing board with regard to detailing and damp-proofing at openings, eaves and sole plates, and the fixing of wall ties. Where required by the project-specific design, the addition of a breather membrane shall be in accordance with BS 5250.

2.2.11 Fire performance

The Product is classified as:

- European Classification A1, in accordance with BS EN 13501-1;
- non-combustible and is not subject to any restriction on building height or proximity to boundaries.

The fire resistance of walls is based on the occupancy, size and use of a building and shall be a minimum of 30 minutes. It is then specified in 60-minute intervals thereafter. The fire resistance shall be confirmed by tests or assessments by a suitably accredited laboratory.

It is recommended that joints are either filled using intumescent joint compound or covered with joint tape.

In all constructions, cavity barriers shall be provided to comply with the relevant provisions of the national Building Regulations.

Specifiers shall refer to the relevant national Building Regulations for detailed conditions of use regarding requirements for substrate fire performance, cavity closers and barriers, fire stopping of service penetrations and combustibility limitations for other materials, thermal insulation, cladding and components used in the overall wall construction.

2.2.12 Durability

The service life durability of the Product shall have a service life durability equivalent to that of the building into which it is incorporated. The expected lifespan of the building itself should be at least 60-years.

2.2.13 UKCA and CE marking

The European standard for the Product is BS EN 12467.

2.3 - EXAMPLES OF TYPICAL DETAILS

Diagram 1 - Typical internal STF stud wall

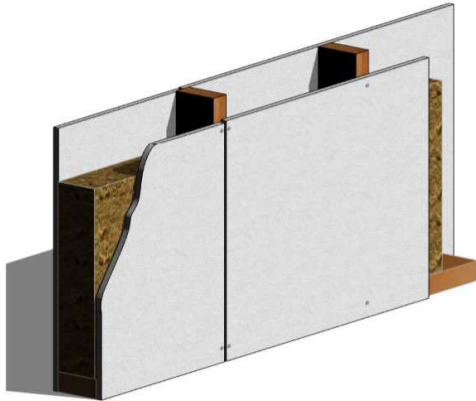


Diagram 2 - Typical STF spandrel panel

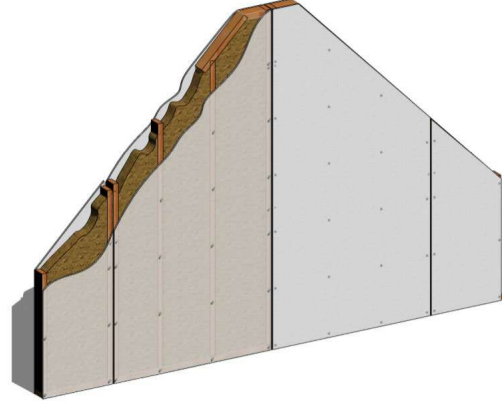


Diagram 3 - Section through typical internal STF stud wall

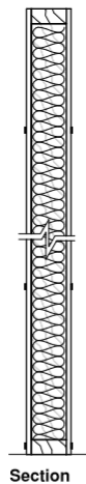


Diagram 4 - Section through typical STF spandrel panel

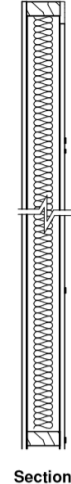
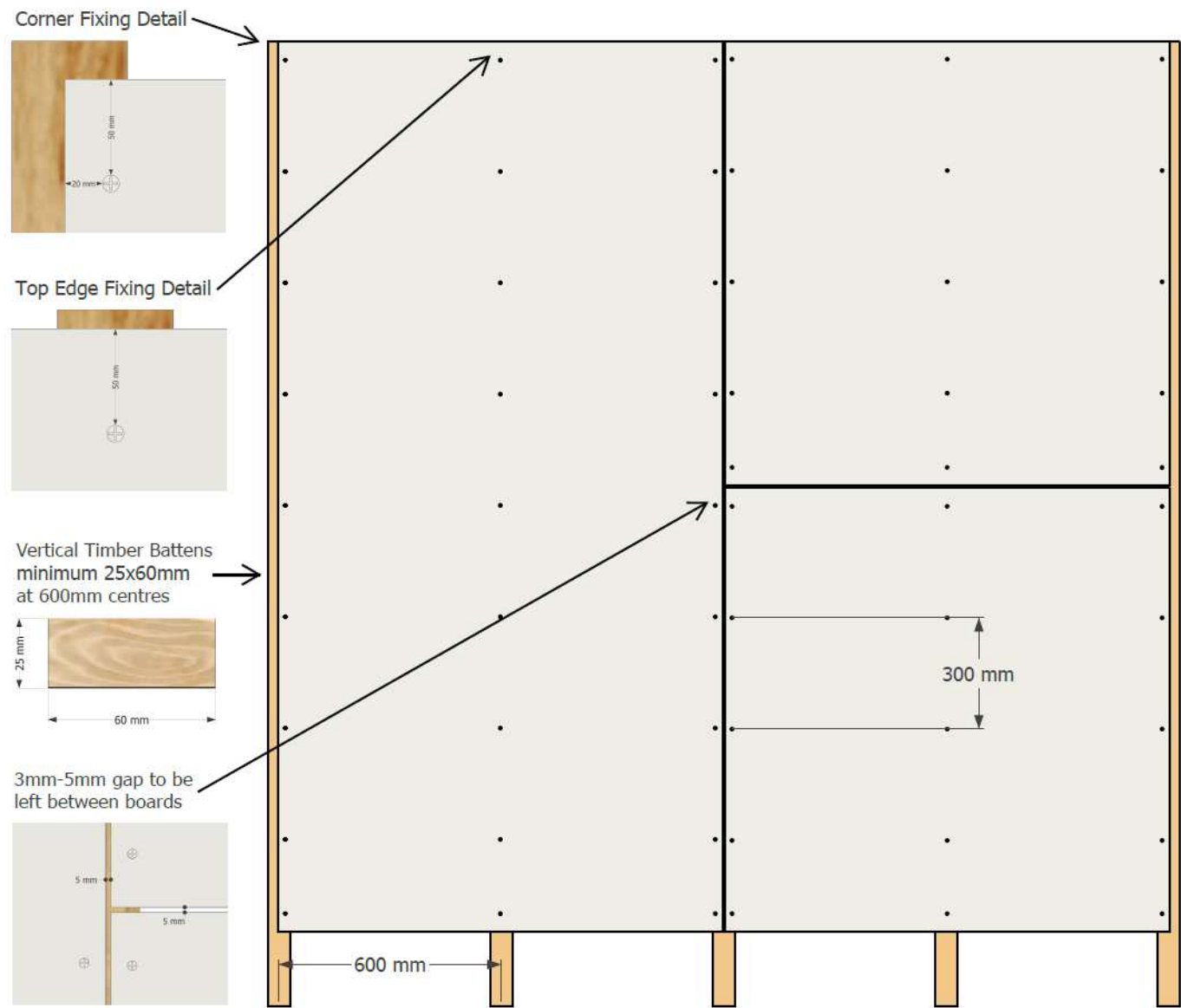


Diagram 5 - Typical fixing details when used as render carrier board on STF



2.4 - INSTALLATION

The Product shall be installed strictly in accordance with the instructions (hereinafter 'Installation Manual') 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 Product.

2.4.4 Preparation

The following considerations apply before starting the work:

- the LGSF or STF supporting wall shall be correctly constructed and structurally sound.

The following works shall be undertaken before the installation of the Product:

- check that the edges of the Product are sound; discard damaged Product or cut away damaged edges;
- check the alignment of LGSF or STF studs for level and plumb; ensure no members are distorted.

2.4.5 Outline installation procedure

The detailed installation sequence can be found in full in the Agrément holder's Installation Manual.

The key sequence for installation is:

- ensure the Product is the correct size to allow for correct arrangement;
- fix the Product using the correct fixing centres;
- use fixings with a regular spacing along the perimeter of the Product; space fixings in the centre of the Product at a maximum of twice that of the spacing of the perimeter fixings;
- fill joints using intumescent joint compound or cover with joint tape;
- maintain a joint of 3-5 mm between each Product to allow movement due to moisture and temperature.

2.4.6 Finishing

The following finishing is required on completion of the installation:

- cover the Product with a breather membrane.

2.5 - INDEPENDENTLY ASSESSED PRODUCT CHARACTERISTICS

2.5.1 Strength

Test	Standard		Result	
Modulus of Rupture - bending strength	BS EN 12467	Longitudinal	8.30 MN/m²	
		Transverse	11.99 MN/m²	
Characteristic pull out resistance per fixing	-	JT3 D6 H	1,112 N	
		SW8 R 4.8	1,002 N	
		TKR 4.8	615 N	
Racking resistance*	BS EN 594	Vertical load 0 kN	Racking Stiffness (mean)	2,278 N/mm
			Fmax (mean)	19.52 kN
		Vertical load 5 kN	Racking Stiffness (mean)	1,908 N/mm
			Fmax (mean)	25.55 kN

* specimen comprised timber frame constructed from 90 mm x 38 mm x 2,324 mm C16 timber stud at nominal 600 mm centres; Product fastened to timber frame with STS 38 mm fibre cement board screws at 150 mm centres to the perimeter and 300 mm centres to the internal studs

2.5.2 Moisture control

Test	Standard	Result
Water impermeability	BS EN 12467	Pass

2.5.3 Fire performance

Test	Standard	Result
Reaction to fire classification	BS EN 13501-1	A1

2.5.4 Other material properties

Test	Standard		Result
Thermal conductivity (λ_D)	BS EN 12667		0.244 W/mK
Airborne sound insulation of partition ^a	BS EN ISO 717-1	without resilient bars	42 (-2; -7) dB R _w (C;C _{tr})
		with resilient bars ^{aa}	50 (-4; -10) dB R _w (C;C _{tr})

^a partition constructed from 89 x 38 mm timber stud at 400 mm centres and 100 mm Rockwool Flexi Perfect fit insulation, clad on front and rear faces with one layer of Product

^{aa} 15 mm resilient bars SRE05 at 400 mm centres behind front face

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 Product, 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.

This Agrément shall not be construed to confer compliance of any project-specific design with the national Building Regulations.

3.2.1 - ENGLAND THE BUILDING REGULATIONS 2010 AND SUBSEQUENT AMENDMENTS

- A1 Loading - the Product can withstand wind pressures when installed on a suitable supporting wall
- B4(1) External fire spread - the Product can adequately resist the spread of fire over walls and from one building to another
- C2(b) Resistance to moisture - the Product can resist the passage of moisture when adequately installed
- Regulation 7(1) Materials and workmanship - the Product is manufactured from suitably safe and durable materials for its application and can be installed to give a satisfactory performance provided it is installed in accordance with the requirements of this Agrément
- Regulation 7(2) Materials and workmanship - the Product can contribute to satisfying this Requirement

3.2.2 - WALES THE BUILDING REGULATIONS 2010 AND SUBSEQUENT AMENDMENTS

- A1 Loading - the Product can withstand wind pressures when installed on a suitable supporting wall
- B4(1) External fire spread - the Product can adequately resist the spread of fire over walls and from one building to another
- C2(b) Resistance to moisture - the Product can resist the passage of moisture when adequately installed
- Regulation 7(1) Materials and workmanship - the Product is manufactured from suitably safe and durable materials for its application and can be installed to give a satisfactory performance provided it is installed in accordance with the requirements of this Agrément
- Regulation 7(2) Materials and workmanship - the Product can contribute to satisfying this Requirement

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

3.2.3.1 Regulation 8 (1)(2) Fitness and durability of materials and workmanship

- the Product is manufactured from suitably safe and durable materials for its application and can be installed to give a satisfactory performance provided it is installed in accordance with the requirements of this Agrément

3.2.3.2 Regulation 8 (3) Fitness and durability of materials and workmanship

- the Product can contribute to satisfying this Requirement

3.2.3.3 Regulation 9 Building Standards - Construction

- 1.1 Structure - the Product can withstand wind pressures when installed on a suitable supporting wall
- 2.6 Fire spread to neighbouring buildings - the Product can inhibit the spread of the fire to neighbouring buildings
- 2.7 Fire spread on external walls - the Product can inhibit the spread of fire on external walls
- 3.10 Precipitation - the Product can resist precipitation penetrating to the inner face of a building
- 7.1(a)(b) Statement of sustainability - the Product 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 Product can contribute to a construction meeting a higher level of sustainability as defined in this Standard

3.2.3.4 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(1)(a)(i)(iii)(iv)(b) Fitness of materials and workmanship - the Product is manufactured from suitably safe and durable materials for its application and can be installed to give a satisfactory performance provided it is installed in accordance with the requirements of this Agrément
- 23(2) Fitness of materials and workmanship - the Product can contribute to satisfying this Requirement
- 28(b) Resistance to moisture and weather - the Product can be constructed to prevent the passage of moisture
- 30 Stability - the Product can withstand wind pressures when installed on a suitable supporting wall
- 35 Internal fire spread (structure) - the Product can inhibit the spread of a fire within a building
- 36(a) External fire spread - the Product can adequately resist the spread of fire over walls and from one building to another

3.3 - THIRD-PARTY ACCEPTANCE

In the opinion of Kiwa Ltd. if installed, used, and maintained in accordance with this Agrément, this Product can satisfy the appropriate structural, fire, moisture, thermal, acoustic and durability requirements of a Structural Warranty provider. Please contact the relevant Structural Warranty provider to ascertain their project specific design requirements and to confirm their acceptance on a case-by-case basis.

CHAPTER 4 - SOURCES

- BS EN ISO 717-1:2013 Acoustics. Rating of sound insulation in buildings and of building elements
- BS EN ISO 6946:2017 Building components and building elements. Thermal resistance and thermal transmittance. Calculation methods
- BS EN 1090-2:2018 Execution of steel structures and aluminium structures. Technical requirements for steel structures
- BS EN 1991-1-4:2005+A1:2010 Eurocode 1. Actions on structures - General actions - Wind actions
- NA to BS EN 1991-1-4:2005+A1:2010 UK National Annex to Eurocode 1. Actions on structures - General actions - Wind actions
- BS EN 1993-1-1:2005+A1:2014 Eurocode 3. Design of steel structures - General rules and rules for buildings
- NA+A1:2014 to BS EN 1993-1-1:2005+A1:2014 Eurocode 3. UK National Annex to Eurocode 3: Design of steel structures - General rules and rules for buildings
- BS EN 1993-1-3:2006 Eurocode 3. Design of steel structures - General rules - Supplementary rules for cold-formed members and sheeting
- NA to BS EN 1993-1-3:2006 UK National Annex to Eurocode 3. Design of steel structures - General rules - Supplementary rules for cold-formed members and sheeting
- BS EN 1995-1-1:2004+A2:2014 Eurocode 5. Design of timber structures. General. Common rules and rules for buildings
- NA to BS EN 1995-1-1:2004+A2:2014 Eurocode 5. Design of timber structures. General. Common rules and rules for buildings
- BS EN 12467:2012+A2:2018 Fibre-cement flat sheets. Product specification and test methods
- 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 EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements. Classification using data from reaction to fire tests
- BS EN 14081-1:2016+A1:2019 Timber structures. Strength graded structural timber with rectangular cross section. General requirements
- BS 5250:2021 Management of moisture in buildings. Code of practice
- BRE Report 443:2006 Conventions for U-value calculations

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, and the Agrément holder should be contacted for clarification of revisions.

CHAPTER 5 - AMENDMENT HISTORY

Revision	Amendment description	Author	Approver	Date
-	First Issue	C Devine	C Vurley	December 2021
A	Product strength assessment updated	C Devine	C Vurley	April 2022
B	Issue with NHBC acceptance	C Devine	C Vurley	May 2022
C	Updates to third-party acceptance	A Chapman	C Devine	November 2024
D	Reissue following successful 3 Year Renewal; update to Diagram 5	C Hewer	C Devine	October 2025

CHAPTER 6 - CONDITIONS OF USE

This Agrément may only be reproduced and distributed in its entirety.

Where a National Annex exists in respect of a BS EN (or other) standard, its use is deemed mandatory wherever the original standard is referenced.

Kiwa Ltd. has used due skill, care and attention in the preparation of this BDA Agrément®.

Whilst all due diligence has been used, no liability or warranty is extended by Kiwa Ltd.

For full terms and conditions refer to Kiwa Ltd.