



Kiwa Ltd.
 Unit 5 Prime Park Way
 Prime Enterprise Park
 Derby
 DE1 3QB
 +44 (0)1332 383333
 uk.bpenquiries@kiwa.com
 www.kiwa.co.uk/bda



BAW-23-303-S-A-UK
BDA Agrément®
Ezy Fit M
Internal Wall Insulation System



EZY FIT Ltd.
 Commer House
 Tadcaster Enterprise Park
 Tadcaster
 LS24 9JF
 +44 (0)1937 222091
 sales@ezy-fit.co.uk
 www.ezy-fit.co.uk

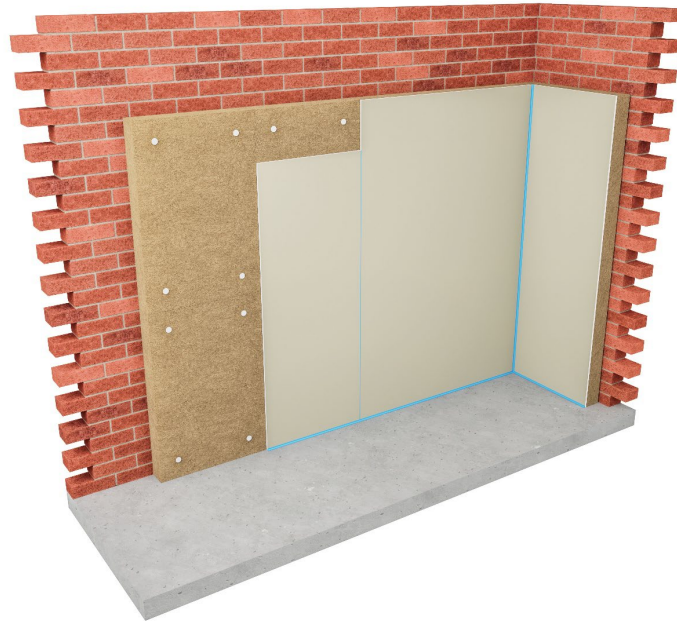
SCOPE OF AGRÉMENT

This BDA Agrément® (hereinafter 'Agrément') relates to Ezy Fit M (hereinafter the 'System'). The System is a mechanically fixed, mineral wool (hereinafter 'MW') insulated, internal wall insulation (IWI) system. The System is for use in the internal face of external masonry walls, for installation above damp-proof course (hereinafter 'DPC') level on masonry (where masonry includes clay and calcium silicate bricks, concrete blocks, and natural and reconstituted stone blocks) or concrete supporting walls. The System is for existing residential and non-residential buildings.

DESCRIPTION

The System comprises MW insulation boards and plasterboard lining. The MW insulation boards are mechanically fixed to the supporting wall, plasterboard is then placed on top and mechanically fixed to the supporting wall with fixings passing through the MW insulation. All joints and edges of plasterboard are sealed with sealant. The System is finished with a plaster coating (outside the scope of this Agrément).

ILLUSTRATION



THIRD-PARTY ACCEPTANCE

None requested by the Agrément holder.

STATEMENT

It is the opinion of Kiwa Ltd. that the System 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

Alpheo Mlotha CEng FIMMM MBA
 Business Unit Manager, Building Products

SUMMARY OF AGRÉMENT

This document provides independent information to specifiers, specialists, engineers, building control personnel, contractors, installers and other construction industry professionals who are considering the safety and fitness for purpose of the System. This Agrément covers the following:

- Conditions of use;
- Production Control, Quality Management System and the Annual Verification Procedure;
- System components and ancillary items, points of attention for the Specifier and examples of details;
- Installation;
- Independently assessed System 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 - see Section 2.2.7 - the System can contribute to limiting the risk of interstitial and surface condensation.

Strength - see Section 2.2.8 - the System has adequate strength and is designed to adequately resist impact damage.

Fire performance - see Section 2.2.9 - the MW insulation and plasterboard elements of the System are classified as European Classification A1, in accordance with BS EN 13501-1.

Thermal performance - see Section 2.2.10 - the System improves the thermal performance of external walls and can contribute to satisfying the requirements of the national Building Regulations.

Durability - see Section 2.2.11 - the System shall have a service life durability equivalent to that of the building into which it is incorporated.

UKCA, UKNI and CE marking - see Section 2.2.12 - the manufacturers of the constituent products used within the System have responsibility for conformity marking, in accordance with all relevant British and European Product Standards.

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- 1.2 - Production Control and Quality Management System
- 1.3 - Annual Verification Procedure - continuous surveillance

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- 2.3 - Examples of typical details
- 2.4 - Installation
- 2.5 - Independently assessed System characteristics

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- 3.2 - The national Building Regulations
- 3.3 - Third-Party Acceptance

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1 GENERAL CONSIDERATIONS

1.1 CONDITIONS OF USE

1.1.1 Limitations

This Agrément has been prepared in accordance with the mandatory requirements defined in the relevant Kiwa Technical Requirement. Some information in this Agrément is provided for guidance or reference purposes only; this information falls outside the scope of the Technical Requirement.

1.1.2 Application

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

1.1.3 Assessment

Kiwa Ltd. has assessed the System 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 shall be controlled by a competent person who shall be an employee of an Approved Installer.

The System 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 Section 3 of this Agrément (CDM, national Building Regulations and Third-Party Acceptance).

1.1.6 Validity

The purpose of this Agrément is to provide well-founded confidence to apply the System within the scope described. The validity of this Agrément is as published on www.kiwa.co.uk/bda.

1.2 PRODUCTION CONTROL AND QUALITY MANAGEMENT SYSTEM

Kiwa Ltd. has conducted an audit of the Agrément holder and determined that they fulfil all their obligations in relation to this Agrément in respect of the System.

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 System 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.

2 TECHNICAL ASSESSMENT

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

2.1 SYSTEM COMPONENTS AND ANCILLARY ITEMS

2.1.1 Components included within the scope of this Agrément

The components listed in Table 1 below are integral to the use of the System.

Table 1 - Integral components

Component	Description	Dimensions
MW insulation	MW insulation boards, with density of 80 kg/m ³ ($\pm 10\%$), λ_D 0.034 W/mK, in accordance with BS EN 13162	1,200 mm by 600 mm, 100 mm thick
	Evolution Panel Fix EVPF insulation fixing, polyamide fixing with polypropylene shank	50 to 130 mm long, with a flat 35 mm diameter head
reveal boards	extruded polystyrene (XPS) insulation board, with density of > 30 kg/m ³ , λ_D 0.034 W/mK, in accordance with BS EN 13164	12.5 mm thick
plasterboard	gypsum plasterboard with average density of 660 kg/m ³ , manufactured in accordance with BS EN 520	0.9 to 1.2 m by 1.8 to 3.6 m, 12.5 mm thick
	zinc plated concrete screw	minimum 150 mm long with 7.5 mm diameter
sealant	polyacrylate-base adhesive sealant for plasterboard	

2.1.2 Ancillary items falling outside the scope of this Agrément

The following ancillary items detailed in this Section may be used in conjunction with the System, but fall outside the scope of this Agrément:

- masonry, concrete or stone supporting walls;
- plaster coating of 5 mm thick minimum.

2.2 POINTS OF ATTENTION TO THE SPECIFIER

2.2.1 Design

2.2.1.1 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 Installer is responsible for the final as-built design.

2.2.1.2 Basis of design

The characteristics detailed in the section titled 'Major Points of Assessment' shall be considered during the use of the System.

2.2.1.3 General design considerations

A project-specific design is required. This shall be developed in close co-operation with the Agrément holder.

The Specifier shall determine the suitability of the System to be used on walls in the specific exposure zone detailed in BRE Report 262 on a project-specific basis, with the appropriate local wind-driven rain index, in accordance with BS 8104.

Detailing shall be carried out to a high standard to avoid the ingress of water into the wall construction. The risk of water penetration will cause substantial damage to a wall construction incorporating the System and the thermal benefit of the insulation will be reduced.

The System shall be installed above DPC level and a minimum of 150 mm above ground level.

Assessment of the structural performance of the System shall be carried out by the Agrément holder to confirm that the System can:

- resist the design impact loads;
- safely transfer loads to the building.

Deflection shall be limited to prevent damage to the System.

Supporting walls incorporating the System shall be:

- detailed to reduce the risk of damage due to movement in the supporting wall, taking into consideration differential movement in dissimilar materials;
- designed in accordance with the relevant Standards to limit mid-span deflections - see Section 2.2.8.

Buildings incorporating the System shall be designed and constructed to prevent moisture penetration and air infiltration, in accordance with the relevant Codes and Standards.

All penetrations through the System shall be fully sealed with sealant/tape to prevent air leakage and a reduction in the System performance.

Care is needed for design detailing of joints around openings, penetrations and movement joints, in accordance with BS 6093.

2.2.1.4 Project-specific design considerations

The project-specific design shall:

- be determined by the Specifier;
- take into account the requirements of the relevant national Building Regulations - see Section 3.2;

- take into account the service life durability required - see Section 2.2.11.

A pre-installation survey is required to allow determination of the project-specific design - see Section 2.4.1.

The Specifier shall ensure that the following considerations are included in the development of a project-specific design:

- adequacy of supporting wall;
- thermal transmittance (hereinafter 'U-value') requirements;
- thermal expansion effects of the supporting wall and the System;
- likely local impact resistance.

Masonry supporting walls shall be vapour permeable to ensure that moisture can escape from inside the building.

Account shall be taken of Government Accredited Construction Details for Part L - Masonry External Wall Insulation Illustrations, Timber Frame Illustrations and Steel Frame Illustrations for England and Wales and Accredited Construction Details for Scotland (hereinafter 'Government Accredited Construction Details').

2.2.2 Applied building physics (heat, air, moisture)

A Specialist shall check the hygrothermal behaviour of a project-specific design incorporating the System and, if necessary, offer advice on 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 Specialist co-operates closely with the Agrément holder).

The checks shall include:

- moisture factors;
- breathability of existing walls;
- existing damp issues;
- degree of wind-driven rain;
- ventilation.

2.2.3 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.

2.2.4 Installer competence level

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

Installation shall be by an Approved Installer, trained and approved by the Agrément holder.

2.2.5 Delivery, storage and site handling

The System components are delivered in suitable packaging bearing relevant identification information (such as the System name, production identification date or batch number, the Agrément holder's name, etc.) and, where applicable, the BDA Agrément® logo incorporating the number of this Agrément.

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

2.2.6 Maintenance and repair

Once installed, the System requires regular maintenance. For 60-year durability, a bespoke extended repair and maintenance protocol will apply. For advice in respect of repair and maintenance, consult the Agrément holder.

The maintenance schedule for the installed System shall include regular visual inspection checks for:

- signs of damaged areas and cracks in the plaster;
- signs of damp, discoloration or black mould;
- signs of deterioration and cracks in the pointing mortar or render of the external wall;
- integrity of the sealant around openings and service entry points;
- signs of damage to the plasterboard. Small areas can be repaired using a suitable filler with a mesh; larger damaged areas (in size circa 100 mm by 100 mm) can be repaired by using a stuck frame within the opening to adhere the newly cut plasterboard to.

Sealants and weather seals shall be checked annually to ensure that they are still providing a suitable air and weathertight seal.

If the System shows signs of damp, an assessment shall establish whether the damp is caused by external moisture sources or from condensation forming on the walls from internal moisture sources. The System shall then be repaired in accordance with the Agrément holder's Maintenance Guide.

Any damaged areas shall be repaired immediately, in accordance with the Agrément holder's Maintenance Guide.

Maintenance shall include the regular replacement and resealing of joints at window and door frames to prevent failure. Failed elements, such as sealants, joint seals and corroded materials, shall be replaced to ensure that water ingress does not occur.

Performance factors in relation to the Major Points of Assessment

2.2.7 Moisture control

Condensation risk

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

Moisture risk to the building incorporating the System shall be assessed using hygrothermal modelling tools, in accordance with BS 5250 and BS EN 15026.

A condensation risk analysis shall be completed at the project-specific design stage for all elements of the construction, including at junctions, openings and penetrations, to minimise the risk of surface and interstitial condensation. When correctly installed on an occupied building, no condensation will form on the internal wall.

For Very Severe Exposure Zones (Zone 4) in accordance with BRE Report 262, the Specifier shall integrate the ventilation strategy for the building into the design and consider wind-driven rain and permeability of existing materials by modelling, using WUFI Analysis.

Resistance to precipitation including wind-driven rain

The project-specific design shall include detailing around openings, penetrations and movement joints to minimise the risk of wind-driven rainwater ingress to the external walls, in accordance with BS 6093.

2.2.8 Strength

The external supporting wall shall have sufficient strength to withstand all wind, dead and imposed loads that could be applied during installation of the System. The strength of the supporting wall shall be verified by a suitably qualified engineer. The project-specific design shall ensure that the System has adequate bond strength for the attachment to the supporting wall.

2.2.9 Fire performance

The MW insulation board is classified as European Classification A1, in accordance with BS EN 13501-1.

The plasterboard is classified as European Classification A2-s1, d0, in accordance with BS EN 13501-1.

The System can be used on buildings without any restrictions on building height, in accordance with the national Building Regulations.

Construction materials, components and associated attachments used in the overall wall construction shall satisfy the requirements of Regulations 7(2) and 7(3) (for England and Wales), Regulations 8(3) and 8(4) (for Scotland) and Regulations 23(2) and 23(3) (for Northern Ireland), for multistorey buildings. Designers shall refer to the national Building Regulations for further details.

The fire resistance of walls is based on the occupancy, size and use of the building and shall be a minimum of 30 minutes. It is then specified in 60-minute intervals thereafter.

Walls shall be designed and constructed to adequately resist the passage and penetration of fire.

For detailed conditions of use regarding requirements for supporting wall fire performance, fire stopping of service penetrations and combustibility limitations for other materials and components used in the overall wall construction, designers shall refer to the relevant national Building Regulations.

2.2.10 Thermal performance

The System can assist in reducing the U-value of external walls. It is essential that detailing is carried out to a high standard to avoid the ingress of water into the MW insulation board and to obtain the full thermal benefit from the installation of the System. Any moisture penetration will affect the thermal conductivity. The System is designed to minimise moisture penetration to the MW insulation board.

The requirement for limiting heat loss through the building fabric, including the effect of thermal bridging, can be satisfied if the U-value of a wall incorporating the System does not exceed the maximum U-value requirement given in the national Building Regulations.

The U-value of a completed wall construction will depend on the MW insulation board thickness, fixing method, type of mechanical fixing, and insulating value of the supporting wall and its internal and external finishes.

For the purposes of U-value calculations and to determine if the requirements of national Building Regulations are met, the thermal resistance and U-value of the walls incorporating the System shall be calculated according to BS EN ISO 10211 (taking into consideration BS EN ISO 6946, BS EN ISO 10456 and BRE Report 443), using the declared thermal conductivity (λ_D) of the MW insulation board - see Section 2.5.4.

Thermal bridging at junctions and around openings

Care shall be taken in the overall design and construction of junctions with other elements and openings, to minimise cold bridging and air infiltration. Due consideration shall be given to the Government Accredited Construction Details.

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 1/06, BRE Report 262, BRE Report 497, PAS 2030 and PAS 2035.

2.2.11 Durability

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

Once installed, the System is not susceptible to damage from environmental conditions normally encountered in the UK. The System has a maintenance regime in accordance with Section 2.2.6.

2.2.12 UKCA, UKNI and CE marking

There is no relevant Product standard for the System.

Diagram 1 - Typical build up detail

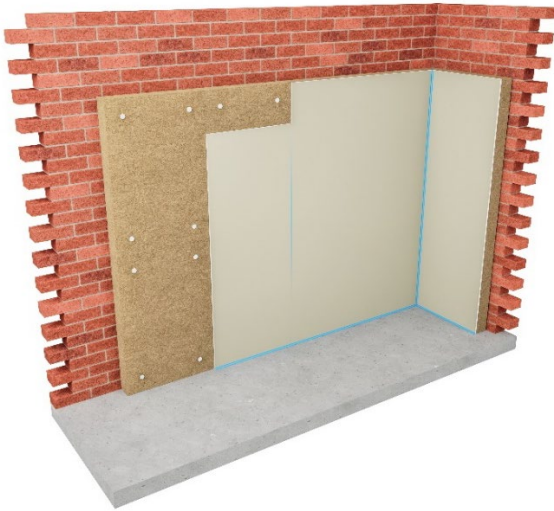


Diagram 2 - Typical coving detail

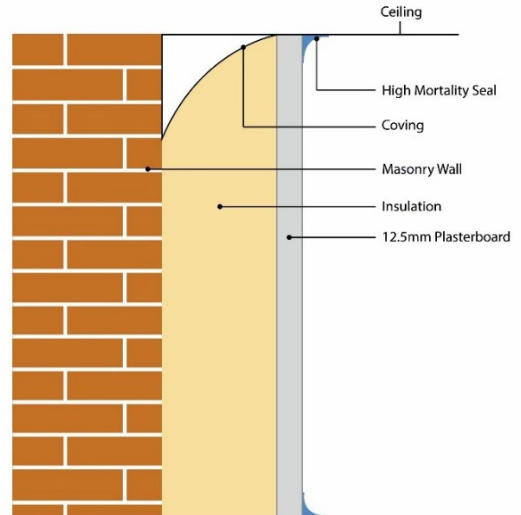


Diagram 3 - Typical external corner detail

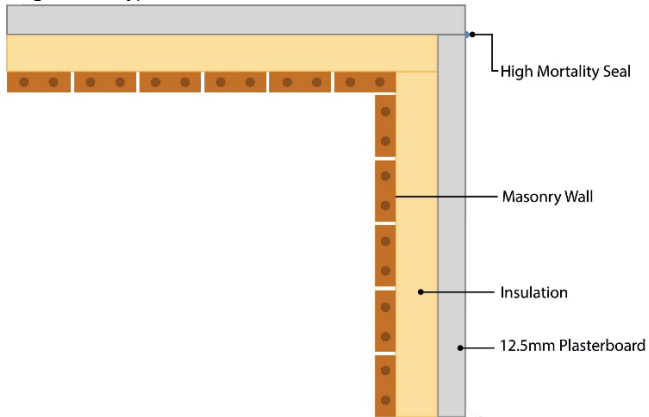


Diagram 4 - Typical internal corner detail

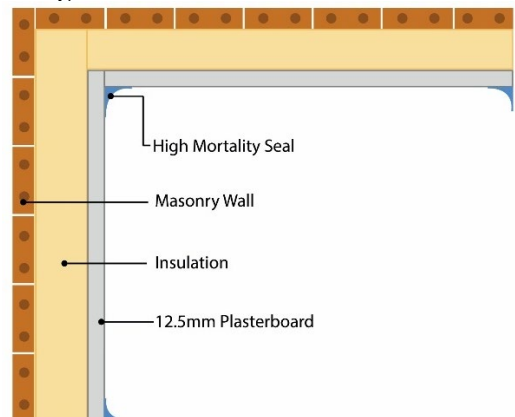


Diagram 5 - Typical wall detail

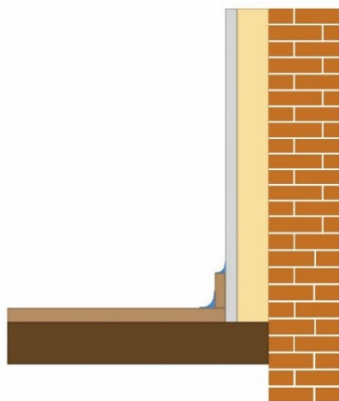


Diagram 6 - Typical side view detail

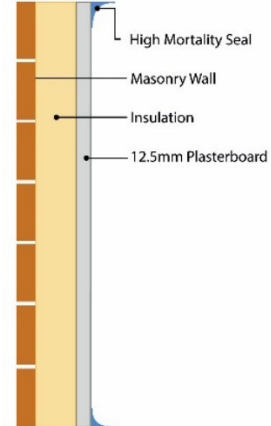
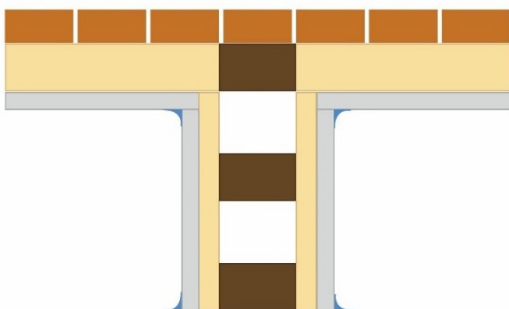


Diagram 7 - Typical system return detail



2.4 INSTALLATION

The System shall be installed strictly in accordance with the instructions (hereinafter 'Installation Manual') of the Agrément holder, the requirements of this Agrément and the requirements of BS 8000-0.

2.4.1 Project-specific installation considerations

The project-specific design shall be determined from a pre-installation survey.

The primary requirement of the pre-installation survey is to determine the following:

- there is no existing rising damp and there are no signs of damp on the inner face of the supporting wall, other than that caused solely by condensation;
- existing walls are:
 - structurally sound, in a good state of repair and show no evidence of rain or frost damage;
 - watertight, clean and meet the requirements of the relevant national Building Regulations.

2.4.2 Preparation

The following works shall be undertaken before installing the System:

- if necessary, remove existing plaster and ensure the supporting wall surface is level;
- remove all existing wallpaper; avoid using steam to reduce excessive moisture;
- carefully remove all existing features such as radiators, skirting and plasterboards;
- reroute electrical services away from the wall or make good services to receive the System.

2.4.3 Outline installation procedure

Detailed installation procedures can be found in the Agrément holder's Installation Manual.

The outline procedure is as follows:

- fix MW insulation boards to the supporting wall above DPC level or 150 mm above ground level using mechanical fixings of 130 mm length; insert one fixing to each corner of each MW insulation board at a maximum of 100 mm from each edge;
- create a recess in the MW insulation allowing any pattress boxes to be fixed into place, ensuring a minimum of 20 mm of insulation remaining behind the outer surface of the electrical outlet;
- install window reveal boards as required;
- apply the plasterboard to the entire face of the MW insulation and secure into place using mechanical fixings of minimum 150 mm length directly through the MW insulation and into the supporting wall;
- seal all planes, edges, and joints of plasterboard using sealant.

2.4.4 Finishing

The following finishing is required on completion of the installation:

- apply plaster coating of 5 mm minimum thickness (outside of the scope of this Agrément);
- check all trunked air vents to verify they are clear and unobstructed;
- apply mastic sealant around windows, door frames, etc.

Post-installation inspection checks shall be carried out to ensure that the installation has been successfully completed and that the building has not been damaged. These shall be conducted as soon as possible after completion of the work and any defects shall be reported immediately.

2.5 INDEPENDENTLY ASSESSED SYSTEM CHARACTERISTICS

2.5.1 Moisture control

Test	Standard	Component	Result
Water vapour resistance factor (μ)	BS EN 12524	Plasterboard	10
Water vapour diffusion resistance factor (μ)	BS EN 13162	MW	MU1

2.5.2 Strength

Test	Standard	Component	Result	
Flexural strength	BS EN 520	Plasterboard	Longitudinal	550 N
			Transverse	210 N

2.5.3 Fire performance

Test	Standard	Component	Result
Reaction to fire	BS EN 13501-1	Plasterboard	A2-s1, d0
		MW	A1

2.5.4 Thermal performance

Test	Standard	Component	Result
Thermal conductivity (λ_D)	BS EN 12664	Plasterboard	0.185 W/mK
	BS EN 12667	MW	0.034 W/mK

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 System, if installed and used in accordance with Section 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 the 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 System can sustain impact loads and transmit dead loads to the supporting structure
- B2 Internal fire spread (linings) - the System can contribute to satisfying this Requirement
- C2(c) Resistance to moisture - the System can adequately protect the building from interstitial and surface condensation
- L1(a)(i) Conservation of fuel and power - the System can contribute to limiting heat gains and losses through walls
- Regulation 7(1) Materials and workmanship - the System is manufactured from suitably safe and durable materials for their application, and can be installed to give a satisfactory performance
- Regulation 7(2) Materials and workmanship - all System components which are part of the external wall or specified attachment, shall achieve European classification of A2-s1, d0 or A1
- Regulation 23(1) Requirements relating to thermal elements - the System can contribute to walls complying with the requirements of L1(a)(i)

3.2.2 Wales**The Building Regulations 2010 and subsequent amendments**

- A1 Loading - the System can sustain impact loads and transmit dead loads to the supporting structure
- B2 Internal fire spread (linings) - the System can contribute to satisfying this Requirement
- C2(c) Resistance to moisture - the System can adequately protect the building from interstitial and surface condensation
- L1(a)(i) Conservation of fuel and power - the System can contribute to limiting heat gains and losses through walls
- Regulation 7(1) Materials and workmanship - the System is manufactured from suitably safe and durable materials for their application, and can be installed to give a satisfactory performance
- Regulation 7(2) Materials and workmanship - all System components which are part of the external wall or specified attachment, shall achieve European classification of A2-s1, d0 or A1
- Regulation 23(1) Requirements relating to thermal elements - the System can contribute to walls complying with the requirements of L1(a)(i)

3.2.3 Scotland**The Building (Scotland) Regulations 2004 and subsequent amendments****3.2.3.1 Regulation 8 (1)(2) Durability, workmanship and fitness of materials**

- The System is manufactured from acceptable materials and is adequately resistant to deterioration and wear under normal service conditions

3.2.3.2 Regulation 8(3) Durability, workmanship and fitness of materials

- All System components which are part of the external wall or specified attachment, shall achieve European classification of A2-s1, d0 or A1

3.2.3.3 Regulation 9 Building Standards - Construction

- 1.1 Structure - the System can sustain impact loads and transmit dead loads to the supporting structure
- 2.5 Internal linings - the System can contribute to satisfying this Requirement
- 3.15 Condensation - the System can be designed and constructed to inhibit surface or interstitial condensation
- 6.1(b) Carbon dioxide emissions - the System can contribute to satisfying this Requirement
- 6.2 Buildings insulation envelope - the System can contribute to satisfying this Requirement
- 7.1(a)(b) Statement of sustainability - the System can contribute to meeting the relevant Requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability, as defined in this Standard. In addition, the System 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)(b) Fitness of materials and workmanship - the System is manufactured from suitably safe and durable materials for its application and can be installed to give a satisfactory performance
- 23(2) Fitness of materials and workmanship - all System components which are part of the external wall or specified attachment, shall achieve European classification of A2-s1, d0 or A1
- 29 Condensation - the System can contribute to satisfying this Requirement
- 30 Stability - the System can sustain impact loads and transmit dead loads to the supporting structure
- 34 Internal fire spread (linings) - the System can contribute to satisfying this Requirement
- 39(a)(i) Conservation measures - the System can contribute to satisfying this Requirement
- 40(2) Target carbon dioxide emission rate - the System can contribute to satisfying this Requirement
- 43 Renovation of thermal elements - the System can contribute to satisfying this Requirement

3.3 THIRD-PARTY ACCEPTANCE

None requested by the Agrément holder.

4 SOURCES

- BS EN ISO 6946:2017 Building components and building elements. Thermal resistance and thermal transmittance. Calculation methods
- BS EN ISO 9001:2015 Quality management systems. Requirements
- 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 520:2004+A1:2009 Gypsum plasterboards. Definitions, requirements and test methods
- BS EN 12524:2000 Building materials and products. Hygrothermal properties. Tabulated design values
- BS EN 12664:2001 Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Dry and moist products of medium and low thermal resistance
- 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 13162:2012+A1:2015 Thermal insulation products for buildings. Factory made mineral wool (MW) products. Specification
- BS EN 13164:2012+A1:2015 Thermal insulation products for buildings. Factory made extruded polystyrene foam (XPS) products. Specification
- BS EN 13501-1:2018 Fire classification of construction products and building elements. Classification using data from reaction to fire tests
- BS EN 15026:2007 Hygrothermal performance of building components and building elements. Assessment of moisture transfer by numerical simulation
- BS 5250:2021 Management of moisture in buildings. Code of practice
- BS 6093:2006+A1:2013 Design of joints and jointing in building construction. Guide
- BS 8000-0:2014 Workmanship on construction sites. Introduction and general principles
- BS 8104:1992 Code of practice for assessing exposure of walls to wind-driven rain
- Accredited Construction Details, Scotland: 2019
- BRE Information Paper 1/06:2006 Assessing the effects of thermal bridging at junctions and around openings
- BRE Report 262:2002 Thermal insulation: avoiding risks
- BRE Report 443:2019 Conventions for U-value calculations
- BRE Report 497:2016 Conventions for calculating linear thermal transmittance and temperature factors
- Government Accredited Construction Detail for Part L:2019
- PAS 2030:2019+A1:2022 Specification for the installation of energy efficiency measures in existing dwellings
- PAS 2035:2019+A1:2022 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 are kept in the Technical Assessment File of this Agrément. The Installation Manual for the System may be subject to change; contact the Agrément holder for the clarification of revisions.

5 AMENDMENT HISTORY

Revision	Amendment description	Author	Approver	Date
-	First issue	A Chapman	C Devine	March 2024
A	Update to Diagram 3	A Chapman	C Devine	May 2024

6 CONDITIONS OF USE

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

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