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Agrément Certificate

23/7060

Product Sheet 1 Issue 2

INDITHERM INSULATION

INDITHERM FOR TIMBER FRAME CONSTRUCTIONS

This Agrément Certificate Product Sheet⁽¹⁾ relates to IndiTherm for Timber Frame Constructions, a hemp fibre insulation slab for use in external walls of new and existing domestic and non-domestic buildings, with height restrictions. The product may be installed between the inner leaf studs of conventional timber frame walls with a timber cladding or masonry outer leaf.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

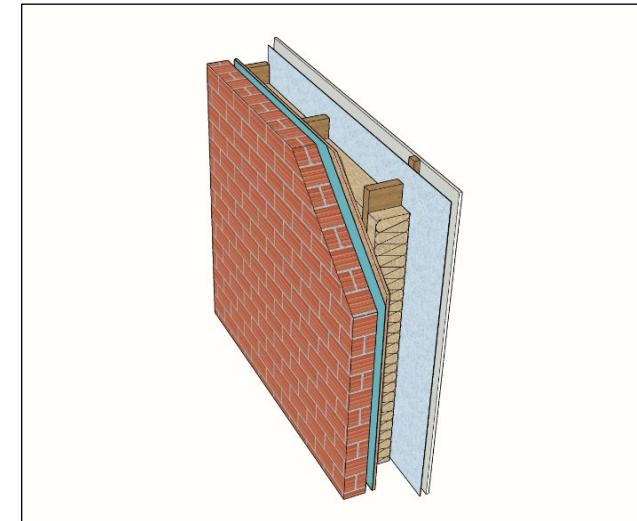
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

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 product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Second issue: 8 May 2024

Originally certified on 21 December 2023

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation. The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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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 IndiTherm for Timber Frame Constructions, 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: B3(4) | Internal fire spread (structure) The product can contribute to satisfying this Requirement. See section 2 of this Certificate. |
| Requirement: B4(1) | External fire spread The product is restricted by this Requirement in some cases. See section 2 of this Certificate. |
| Requirement: C2(c) | Resistance to moisture The product can contribute to satisfying this Requirement. See section 3 of this Certificate. |
| Requirement: L1(a)(i) | Conservation of fuel and power The product can contribute to satisfying this Requirement; however, compensating fabric measures may be required. See section 6 of this Certificate. |
| Regulation: 7(1) | Materials and workmanship The product is acceptable. See sections 8 and 9 of this Certificate. |
| Regulation: 7(2) | Materials and workmanship The product is restricted by this Regulation. See section 2 of this Certificate. |
| Regulation: 25B | Nearly zero-energy requirements for new buildings |
| Regulation: 26 | CO₂ emission rates for new buildings |
| Regulation: 26A | Fabric energy efficiency rates for new dwellings (applicable to England only) |
| Regulation: 26A | Primary energy 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 to Wales only) |
| Comment: | The product can contribute to satisfying these Regulations; however, compensating fabric/service measures may be required. See section 6 of this Certificate. |



The Building (Scotland) Regulations 2004 (as amended)

| | |
|-------------------------|--|
| Regulation: 8(1) | Fitness and durability of materials and workmanship The product is acceptable. See sections 8 and 9 of this Certificate. |
| Regulation: 8(3) | Fitness and durability of materials and workmanship The product is restricted by this Regulation. See section 2 of this Certificate. |

| | | |
|--------------------|-----------|---|
| Regulation: | 9 | Building standards – construction |
| Standard: | 2.4 | Cavities The product can contribute to satisfying this Standard in some cases, with reference to clauses 2.4.2 ⁽¹⁾⁽²⁾ , 2.4.4 ⁽¹⁾ and 2.4.6 ⁽²⁾ . See section 2 of this Certificate. |
| Standard: | 2.6 | Spread to neighbouring buildings The product is restricted by this Standard in some cases, with reference to clauses 2.6.5 ⁽¹⁾ and 2.6.6 ⁽²⁾ . See section 2 of this Certificate. |
| Standard: | 2.7 | Spread on external fire walls The product is restricted by this Standard in some cases, with reference to clause 2.7.1 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate. |
| Standard: | 3.15 | Condensation The product can contribute to satisfying this Standard, with reference to clauses 3.15.1 ⁽¹⁾⁽²⁾ , 3.15.4 ⁽¹⁾⁽²⁾ and 3.15.5 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate. |
| Standard: | 6.1(b)(c) | Energy demand The product can contribute to satisfying this Standard, with reference to clauses 6.1.1 ⁽¹⁾ and 6.1.2 ⁽²⁾ ; however, compensating fabric/service measures may be required. See section 6 of this Certificate. |
| Standard: | 6.2 | Building insulation envelope The product can contribute to satisfying this Standard, with reference to clauses 6.2.1 ⁽¹⁾⁽²⁾ , 6.2.3 ⁽¹⁾ , 6.2.4 ⁽²⁾ , 6.2.6 ⁽¹⁾ , 6.2.7 ⁽¹⁾⁽²⁾ , 6.2.8 ⁽¹⁾⁽²⁾ , 6.2.9 ⁽¹⁾⁽²⁾ , 6.2.10 ⁽¹⁾⁽²⁾ , 6.2.11 ⁽²⁾ and 6.2.12 ⁽¹⁾ ; however, compensating fabric measures may be required. See section 6 of this Certificate. |
| Standard: | 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 will contribute to a construction meeting the bronze level of sustainability as defined in this Standard. See section 6 of this Certificate. |
| Regulation: | 12 | Building standards – conversion |
| Comment: | | All comments made in relation to the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾ and Schedule 6 ⁽¹⁾ . |
| | | (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic). |



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

| | | |
|--------------------|--|---|
| Regulation: | 23(1)(a)(i) (iii)(b)(i)(ii) | Fitness of materials and workmanship The product is acceptable. See sections 8 and 9 of this Certificate. |
| Regulation: | 23(2) | Fitness of materials and workmanship The product is restricted by this Regulation. See section 2 of this Certificate. |
| Regulation: | 35(4) | Internal fire spread – structure The product can contribute to satisfying this Regulation. See section 2 of this Certificate. |
| Regulation: | 36(a) | External fire spread The product is restricted by this Regulation in some cases. See section 2 of this Certificate. |
| Regulation: | 39(a)(i) | Conservation measures The product can contribute to satisfying these Regulations; however, compensating fabric measures may be required. See section 6 of this Certificate. |

| | |
|-----------------------------|---|
| Regulation: 40(2) | Target carbon dioxide emission rate |
| Regulation: 43(1)(2) | Renovation of thermal elements |
| Regulation: 43B | Nearly zero-energy requirements for new buildings |
| Comment: | The product can contribute to satisfying these Regulations; however, compensating fabric/service measures may be required. See section 6 of this Certificate. |

Additional information

NHBC Standards 2024

In the opinion of the BBA, IndiTherm for Timber Frame Constructions, 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 6.2 *External timber framed walls*.

Fulfilment of Requirements

The BBA has judged IndiTherm for Timber Frame Constructions to be satisfactory for use as described in this Certificate. The product has been assessed as a hemp fibre insulation for use as thermal insulation in new and existing conventional timber frame walls, in domestic and non-domestic buildings with a timber cladding or masonry outer leaf.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. IndiTherm for Timber Frame Constructions consists of a flexible thermal insulation batt made from UK crops.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

| Characteristic (unit) | Value |
|---|-------------------------|
| Length (mm) | 1200 |
| Width (mm) | 370, 440, 570 |
| Thickness (mm) | 20, 30, 50, 70, 80, 100 |
| Edge profile | Square |
| Colour | Beige |
| Nominal density ($\text{kg}\cdot\text{m}^{-3}$) | 45 |

Product assessment – key factors

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

1 Mechanical resistance and stability

Not applicable.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The product was tested for reaction to fire and the classification is given in Table 2.

Table 2 Reaction to fire classification

| Product assessed | Assessment method | Requirement | Result |
|---|----------------------|----------------|------------------|
| IndiTherm for Timber Frame Constructions | BS EN 13501-1 : 2018 | Value achieved | E ⁽¹⁾ |
| (1) System Laboratories UK Ltd, report no. 466 issue C, 6 November 2023. Copies are available from the Certificate holder on request. | | | |

2.1.2 On the basis of data assessed, the product will be restricted in use under the documents supporting the national Building Regulations in some cases.

2.1.3 In England, Wales and Northern Ireland, the product must not be used on buildings with a storey 18 m or more in height. Additionally, in England, it must not be used on residential buildings with a storey 11 m or more in height.

2.1.4 In Scotland, the product must not be used on buildings with a storey at a height of 11 m or more. In addition, the product must not be used 1 m or less from a relevant boundary, unless the external wall cladding is constructed from products that achieve reaction to fire classification A1 or A2, and requirements for fire resistance and unprotected areas are met.

2.1.5 In England, Wales and Northern Ireland, the product is unrestricted in terms of proximity to a relevant boundary.

2.1.6 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire resistance, cavity closers and barriers, fire stopping of service penetrations and combustibility limitations for other materials and components used in the overall wall construction.

2.2 Resistance to fire

2.2.1 The product must be contained by a fire-resistant lining board manufactured in accordance with BS EN 520 : 2004, with joints fully sealed and supported by timber studs or battens.

2.2.2 Where the product is incorporated in a wall construction where fire resistance is required by the documents supporting the national Building Regulations, the fire resistance should be confirmed by a suitably experienced and competent individual.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Water vapour permeability

3.1.1 The product was tested for water vapour permeability and the result is given in Table 3.

Table 3 Water vapour resistivity

| Material | Assessment method | Requirement | Result |
|--|--------------------|----------------|--|
| IndiTherm for Timber Frame Constructions | BS EN 12086 : 2013 | Value achieved | 6.52 MN·s·g ⁻¹ ·m ⁻¹ |

3.1.2 For the purposes of assessing the risk of interstitial condensation, the water vapour resistivity value may be taken as given in Table 3.

3.2 Biological resistance

3.2.1 The product was tested for resistance to the growth of mould fungus and the result is given in Table 4.

Table 4 Resistance to the growth of mould fungus

| Material | Assessment method | Requirement | Result |
|--|--|----------------------|--------|
| IndiTherm for Timber Frame Constructions | UKAD 040005-00-1201 : 2015, Annex B and BS EN ISO 846 : 1997 (23°C and 95% RH for 4 weeks) | Evaluation level ≤ 1 | Pass |

3.2.2 On the basis of data assessed, the product has satisfactory resistance to fungal growth.

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

The product was tested for thermal conductivity and the result is given in Table 5.

Table 5 Thermal conductivity

| Material | Assessment method | Requirement | Result |
|--|----------------------------|--------------------------------|--|
| IndiTherm for Timber Frame Constructions | UKAD 040005-00-1201 : 2015 | Declared value (λ_D) | 0.039 W·m ⁻¹ ·K ⁻¹ |

6.2 Conservation of fuel and power

6.2.1 The U value of a completed wall construction will depend on the insulation thickness, the timber frame fraction and the insulating value of the external and internal finishes. Example U values are given in Table 6 of this Certificate.

Table 6 Example U values — timber frame⁽¹⁾

| Target U value (W·m ⁻² ·K ⁻¹) | IndiTherm thickness (mm) |
|---|-----------------------------|
| 0.13 | — ⁽⁴⁾ |
| 0.15 | — ⁽⁴⁾ |
| 0.17 | — ⁽⁴⁾ |
| 0.18 | — ⁽⁴⁾ |
| 0.21 | — ⁽⁴⁾ |
| 0.26 | 100 + 70 ⁽³⁾ |
| 0.28 | 80 + 70 ⁽²⁾ |
| 0.30 | 70 + 70 |

(1) Construction, external to internal: 102.5 mm brick ($\lambda = 0.77$ W·m⁻¹·K⁻¹); 50 mm slightly ventilated cavity (580 mm·m⁻¹ opening area); breather membrane; 9 mm OSB (oriented strand board) sheathing board ($\lambda = 0.13$ W·m⁻¹·K⁻¹); IndiTherm insulation bridged at 15% with 140 mm thick timber frame ($\lambda = 0.13$ W·m⁻¹·K⁻¹); AVCL; and 15 mm plasterboard ($\lambda = 0.25$ W·m⁻¹·K⁻¹).

(2) 150 thick timber frame used.

(3) 170 thick timber frame used

(4) See section 6.2.3.

6.2.2 On the basis of data assessed, the product can contribute towards a construction satisfying the national Building Regulations in respect of energy economy and heat retention.

6.2.3 For improved energy or carbon savings, designers must consider appropriate compensating fabric and/or service measures.

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 product were assessed.

8.2 Specific test data were assessed for the following.

Table 7 Dimensional stability

| Product assessed | Assessment method | Requirement | Result |
|--|--|---|--------|
| IndiTherm for Timber Frame Constructions | BS EN 1604 : 2013 (70°C and 90% RH for 48 hours) | Length, width and reduction in thickness \leq 3% change | Pass |

8.3 Service life

Under normal service conditions, the product will have a life equivalent to the structure in which it is incorporated, provided it is 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, and the following requirements apply in order to satisfy the performance assessed in this Certificate.

9.1.2 External framed cavity walls must be designed and constructed in accordance with the relevant recommendations of:

- BS 5250 : 2021
- BS 8000-3 : 2020
- BS EN 351-1 : 2023
- BS EN 845-1 : 2013
- BS EN 1995-1-1 : 2004 and its UK National Annex
- BS EN 1996-1-1 : 2005 and its UK National Annex
- BS EN 1996-1-2 : 2005 and its UK National Annex
- BS EN 1996-2 : 2006 and its UK National Annex
- BS EN 1996-3 : 2006 and its UK National Annex.

9.1.3 This application requires an air and vapour control layer (AVCL) behind the internal fire-resistant lining board, which must be a minimum thickness of 0.125 mm (500 gauge) polyethylene.

9.1.4 Care must be taken in the overall design and construction of walls incorporating the product to ensure the provision of appropriate:

- cavity trays and damp-proof courses (DPCs)
- cavity barriers and fire dampers
- resistance to the ingress of precipitation, moisture and dangerous gases from the ground
- resistance to sound transmission when flanking separating walls and floors.

9.1.5 It is essential that external masonry cavity walls are designed and constructed to incorporate the precautions in this Certificate to prevent moisture penetration.

9.1.6 Window and door opening reveals must be constructed incorporating a cavity barrier/closer/DPC, as required.

9.1.7 It is recommended that services which penetrate the dry lining (eg light switches, power outlets) are kept to a minimum to limit damage to the AVCL. In addition, to preserve the fire resistance of the wall, any penetrations must be enclosed in appropriate fire rated sealant, plasterboard, stone mineral wool or a suitably tested proprietary fire-rated system.

9.1.8 As with other insulation products, it may be necessary in some cases to de-rate electrical cables buried in insulation. BS 7671 : 2018 recommends that where wiring is completely surrounded by insulation it may need to be de-rated to as low as half its free air-current-carrying capacity. Guidance must be sought from a qualified electrician.

9.1.9 The guidance given in the documents supporting the national Building Regulations must be followed when the product is installed in close proximity to certain pipes and/or heat-producing appliances.

9.1.10 Calculations of the thermal transmittance (U value) of a wall must be carried out in accordance with BS EN ISO 6946 : 2017 and BRE Report BR 443 : 2019.

9.1.11 Care must be taken in the overall design and construction of junctions with other elements and openings to minimise thermal bridges and air infiltration. Detailed guidance can be found in the documents supporting the national Building Regulations.

Interstitial condensation

9.1.12 Walls will adequately limit the risk of interstitial condensation when they are designed and constructed in accordance with BS 5250 : 2021.

9.1.13 If the product is to be used in the external wall of rooms expected to have high humidity, care must be taken to provide adequate permanent ventilation to avoid possible problems from the formation of interstitial condensation.

Surface condensation

9.1.14 In England and Wales, walls will adequately limit the risk of surface condensation when the thermal transmittance (U value) does not exceed $0.7 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$ at any point, and the junctions with other elements are designed in accordance with the guidance referred to in section 9.1.11 of this Certificate.

9.1.15 For buildings in Scotland, wall constructions will be acceptable when the thermal transmittance (U value) does not exceed $1.2 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$ at any point, and the junctions with other elements are designed in accordance with the guidance referred to in BS 5250 : 2021. Further guidance may be obtained from BRE Report BR 262 : 2002 and section 9.1.11 of this Certificate.

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 and the Certificate holder's instructions. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.2.3 Existing constructions must be in a good state of repair, with no evidence of rain penetration or damp. Defects must be made good prior to installation.

9.2.4 Any mould or fungal growth found to be present must be treated.

9.2.5 Installation must not be carried out until the moisture content of any timber is less than 20% by mass.

9.2.6 The installer must wear appropriate personal protective equipment when installing overhead or in closed spaces with poor ventilation.

9.2.7 Where multiple layers of batts are required to make up the thicknesses needed to meet specific U value requirements (see Table 6), joints must be offset a minimum of 100 mm.

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 product must be carried out by a competent general builder, or a contractor, experienced with this type of product.

9.4 Maintenance and repair

Once installed, provided that the product is protected and the outer leaf is maintained in a weathertight condition, maintenance is not required.

10 Manufacture

10.1 The production processes for the product 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 product is delivered to site shrink-wrapped in polythene packs containing a label with the product description and characteristics, the manufacturer's name, and the BBA logo incorporating the number of this Certificate.

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

11.2.1 Where possible, packs should be stored inside. If stored outside, the product must be raised above ground level out of contact with ground moisture and protected from rain.

11.2.2 Packs must be stacked on pallets on their sides when shipping and storing to avoid compression of the batt thicknesses. Pallets of products must not be stacked.

11.2.3 The product must not be exposed to naked flame or other ignition sources. Care must be taken to avoid contact with solvents and with materials containing volatile organic compounds. If damaged, the product must be discarded.

ANNEX A – SUPPLEMENTARY INFORMATION †

Supporting information in this Annex is relevant to the product 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.

Additional information on installation

A.1 Installation must be in accordance with the Certificate holder's instructions and this Certificate.

A.2 The batts are light to handle and can be cut easily with a 'wavy-bladed' insulation handsaw. For large volume work, a straight-knife textile bandsaw may be used.

A.3 The product is self-supporting by friction fitting between timber studs.

A.4 When cutting the product to size, an OSB board may be used as a cutting surface to provide grip; a pre-cut slit in the middle of the board as a saw guide is useful.

A.5 For cutting narrow strips off, it can be helpful to place a piece of OSB board on top to compress slightly and use as a saw guide.

A.6 The product should be cut to fit tightly between the timber studding and positioned against the inner face of the sheathing board. Typical installation details are shown in Figures 1 to 4.

Figure 1 Typical wall build up detail

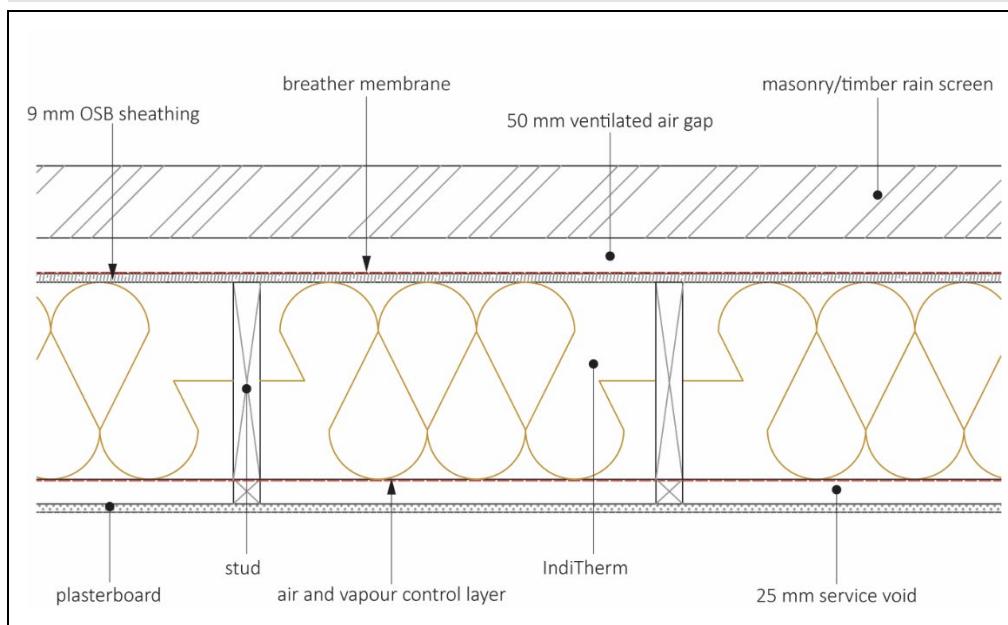


Figure 2 Wall to suspended floor junction detail

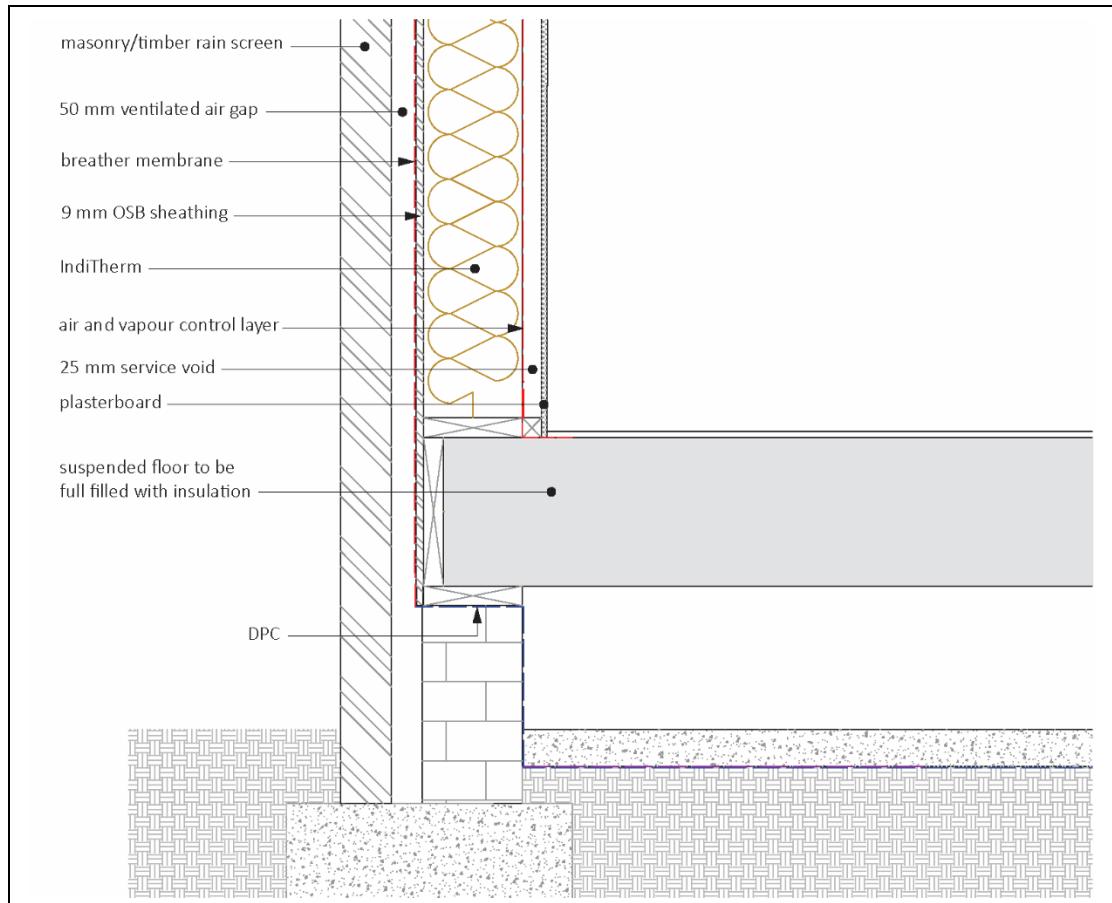


Figure 3 Wall to intermediate floor junction detail

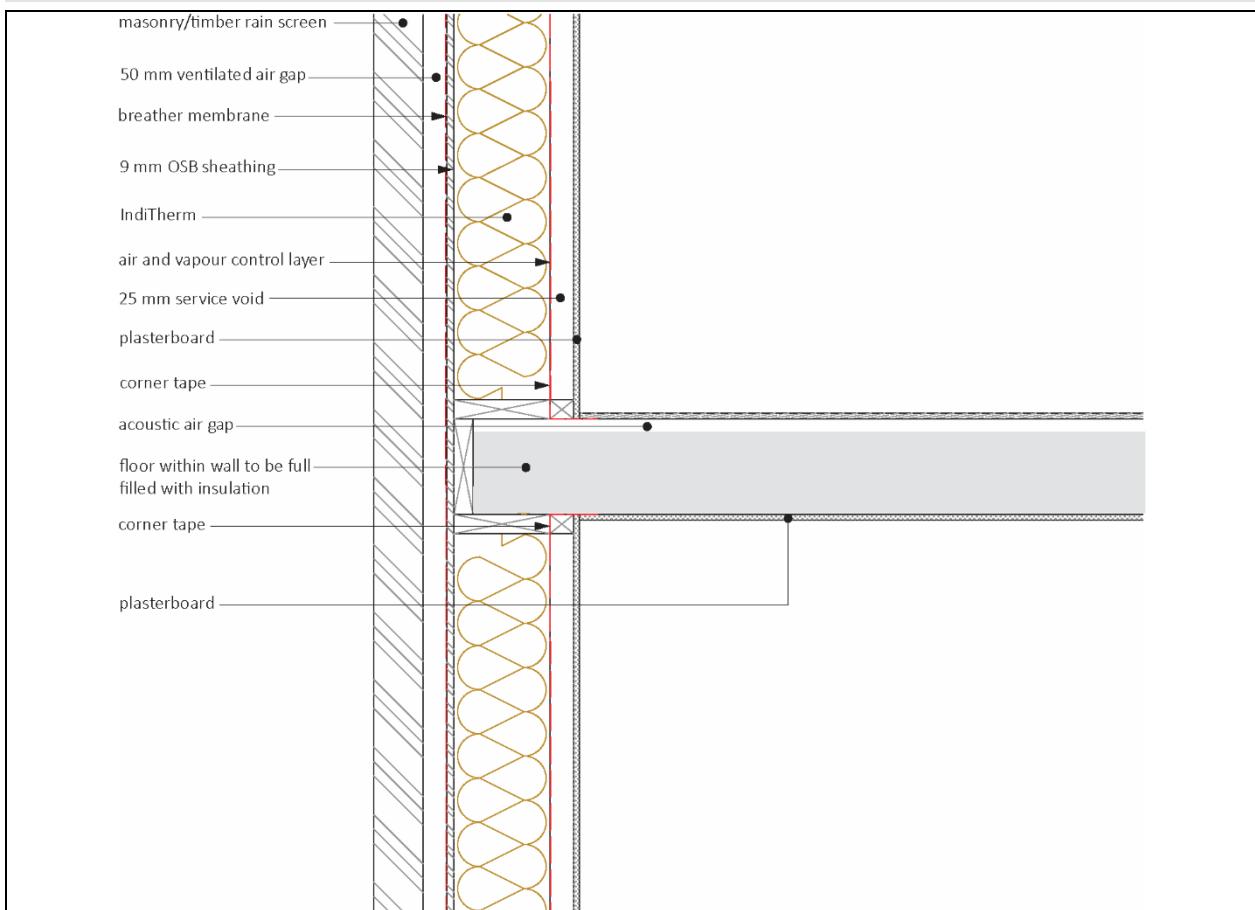
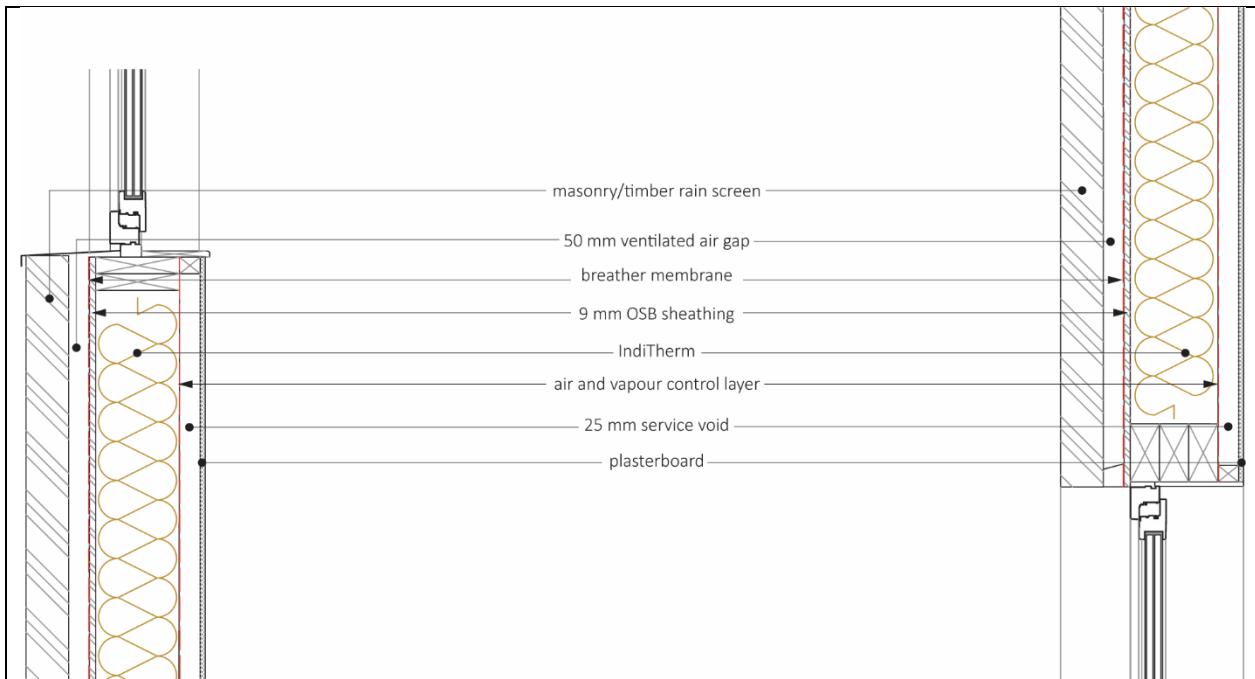


Figure 4 Wall to window sill and head junction details

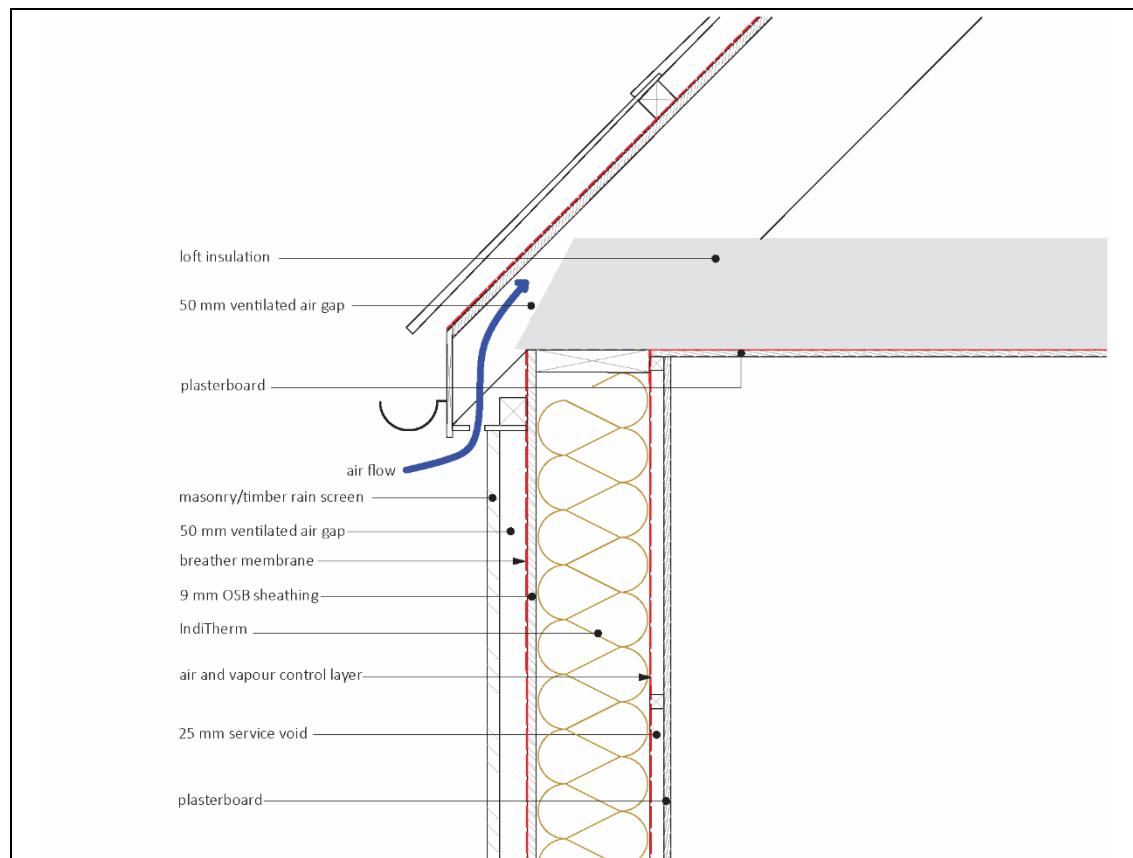


A.7 Plasterboard can either be directly fixed to the timber studwork over an AVCL with appropriate fixings as per the plasterboard manufacturer's specification, or a timber batten can be applied beforehand to create a service cavity for cables and pipework.

A.8 Wall insulation should extend all the way to under the wall head, with no gaps.

A.9 Care should be taken to ensure the 50 mm ventilated gap allows continuous airflow and is not blocked (see Figure 5).

Figure 5 Wall to roof junction detail



Bibliography

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

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

BS 5250 : 2021 *Management of moisture in buildings — Code of practice*

BS 7671 : 2018 + A2 : 2022 *Requirements for Electrical Installations — IET Wiring Regulations*

BS 8000-3 : 2020 *Workmanship on Building Sites — Code of Practice for Masonry*

BS EN 351-1 : 2023 *Durability of wood and wood-based products — Preservative-treated solid wood — Classification of preservative penetration and retention*

BS EN 520 : 2004 + A1 : 2009 *Gypsum plasterboards — Definitions, requirements and test methods*

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

BS EN 1604 : 2013 *Thermal insulating products for building applications — Determination of dimensional stability under specified temperature and humidity conditions*

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 *UK National Annex to Eurocode 5 : Design of timber structures — General — Common rules and rules for buildings*

BS EN 1996-1-1 : 2005 + A1 : 2012 *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 12086 : 2013 *Thermal insulating products for building applications — Determination of water vapour transmission properties*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*

BS EN ISO 846 : 1997 *Plastics — Evaluation of the action of microorganisms*

BS EN ISO 6946 : 2017 *Building components and building elements — Thermal resistance and thermal transmittance — Calculation method*

UKAD 040005-00-1201 : 2015 *Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres*

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
- is valid only within the UK
- 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
- is subject to English Law.

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
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- 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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