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Agrément Certificate

23/7060

Product Sheet 2 Issue 2

INDITHERM INSULATION

INDITHERM FOR PITCHED ROOF CONSTRUCTIONS

This Agrément Certificate Product Sheet⁽¹⁾ relates to IndiTherm for Pitched Roof Constructions, a hemp fibre insulation slab for use in pitched roofs and lofts of new and existing domestic and non-domestic buildings. The product may be installed between timber rafters of tiled/slated warm pitched roofs with a pitch of between 10 and 70°, or between, or between and over, horizontal ceiling joists with a ventilated loft space.

(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†:

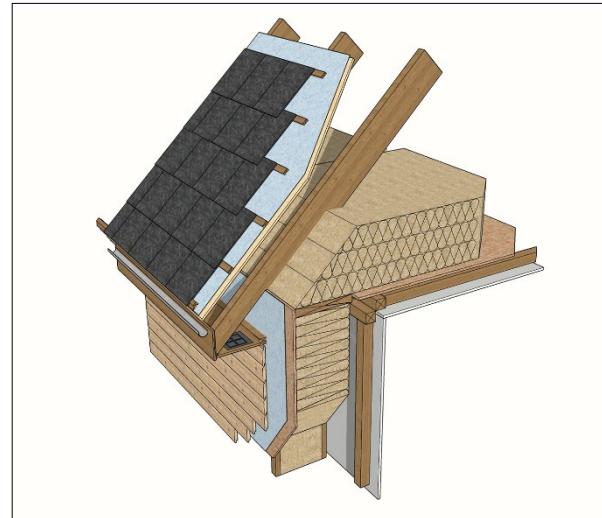
- regular assessment of production
- formal 3-yearly review

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



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

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 Pitched Roof 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:	C2(c)	Resistance to moisture
Comment:		The product can contribute to satisfying this Requirement. See section 3 of this Certificate.
Requirement:	L1(a)(i)	Conservation of fuel and power
Comment:		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
Comment:		The product is acceptable. See sections 8 and 9 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
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards – construction
Standard:	3.15	Condensation
Comment:		The product can contribute to satisfying this Standard, with reference to clauses 3.15.1 ⁽¹⁾⁽²⁾ , 3.15.3 ⁽¹⁾⁽²⁾ , 3.15.4 ⁽¹⁾⁽²⁾ , 3.15.5 ⁽¹⁾⁽²⁾ and 3.15.7 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	6.1(b)(c)	Energy demand
Comment:		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
Comment:		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
Comment:		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.
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)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)(ii)	The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	29	Condensation
Comment:		The product can contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation:	39(a)(i)	Conservation measures
Comment:		The product can contribute to satisfying this Regulation; 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 Pitched Roof 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 7.2 *Pitched roofs*.

Fulfilment of Requirements

The BBA has judged IndiTherm for Pitched Roof 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 between timber rafters, in warm tiled and slated pitched roofs with a pitch of between 10 and 70°, or between, or between and over, horizontal ceiling joists with a ventilated loft space in new and existing domestic and non-domestic buildings.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. IndiTherm for Pitched Roof Constructions consists of a 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

The product is intended for use as insulation in the following applications, on new and existing domestic and non-domestic buildings with tiled or slated pitched roofs, and a roof pitch of between 10 and 70°:

- between timber rafters in a warm pitched roof — insulation at rafter level only
- between, or between and over, timber ceiling joists in a ventilated cold pitched roof (loft space) — insulation at ceiling level only.

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 characteristic.

2.1 Reaction to fire

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 Pitched Roof 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 unrestricted in use with respect to proximity to a relevant boundary under the documents supporting the national Building Regulations.

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

2.1.4 The product must be protected from naked flames and other ignition sources during and after installation.

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 Pitched Roof 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 Pitched Roof 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

Product assessed	Assessment method	Requirement	Result
IndiTherm for Pitched Roof 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 roof will depend on the insulation thickness, its structure, and its internal finish. Example U values are given in Tables 6 and 7 of this Certificate.

Table 6 Example U values — warm pitched roofs – insulation at rafter level only, with sloping ceiling⁽¹⁾

Target U value (W·m ⁻² ·K ⁻¹)	IndiTherm thickness (mm)
0.09	— ⁽²⁾
0.11	— ⁽²⁾
0.12	— ⁽²⁾
0.13	— ⁽²⁾
0.15	80 + 70 between rafters + 80 + 80 between additional battens
0.16	80 + 70 between rafters + 70 + 70 between additional battens
0.18	80 + 70 between rafters + 80 + 30 between additional battens
0.20	80 + 70 between rafters + 80 between additional battens

(1) Pitched roof construction — tiles on 25 mm timber tile battens on low-resistance (LR) breathable tile underlay on 47 by 150 mm timber rafters, with additional battens as required ($\lambda = 0.13 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$), at 400 mm centres (13.5%); variable thickness of insulation; AVCL; and 12.5 mm plasterboard ($\lambda = 0.25 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$).

(2) See section 6.2.3.

Table 7 U values – cold pitched roofs (non-habitable loft space) – insulation at horizontal ceiling level⁽¹⁾

Target U value (W·m ⁻² ·K ⁻¹)	IndiTherm thickness (mm)
0.09	— ⁽²⁾
0.11	— ⁽²⁾
0.12	80 + 70 between joists + 100 + 80 over joists
0.13	80 + 70 between joists + 80 + 80 over joists
0.15	80 + 70 between joists + 100 + 20 over joists
0.16	80 + 70 between joists + 80 + 30 over joists
0.18	80 + 70 between joists + 80 over joists
0.20	80 + 70 between joists + 60 over joists

(1) Ceiling construction — 12.5 mm plasterboard ($\lambda = 0.25 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$); AVCL; variable thickness of insulation between 50 by 150 mm ceiling joists ($\lambda = 0.13 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$), at 400 mm centres (13.5%).

(2) 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 8 Dimensional stability

Product assessed	Assessment method	Requirement	Result
IndiTherm for Pitched Roof 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 Roofs must be designed and constructed in accordance with the relevant clauses of BS 5250 : 2021, BS 5534 : 2014, BS 8103-3 : 2009, BS 8212 : 1995, BS EN 351-1 : 2023, the principles of BS EN 1995-1-1 : 2004 and its UK National Annex, and this Certificate.

9.1.3 Construction elements must be designed and constructed to incorporate the normal precautions against moisture ingress before application of the product.

9.1.4 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.

9.1.5 De-rating of electric cables must be considered in areas where the product restricts the flow of air. The use of suitable conduit or trunking is recommended.

9.1.6 Where recessed lighting is used, provision must be made to prevent the fitting overheating.

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

9.1.8 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

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

9.1.10 Where high humidity may be expected, an air and vapour control layer (AVCL) with sealed and lapped joints, must also be installed unless a site-specific condensation risk analysis in accordance with BS 5250 : 2021 indicates otherwise.

Surface condensation

9.1.11 In England and Wales, roofs and loft spaces will limit the risk of surface condensation adequately where the thermal transmittance (U value) does not exceed $0.35 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$ at any point and the junctions with other elements are designed in accordance with section 9.1.8 of this Certificate.

9.1.12 For buildings in Scotland, constructions will be acceptable where the thermal transmittance (U value) of the roof does not exceed $1.2 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$ at any point, and roofs are designed and constructed in accordance with the relevant parts of BS 5250 : 2021. Further guidance may be obtained from BRE Report BR 262 : 2002 and section 9.1.8 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 Ventilation of the roof space in accordance with BS 5250 : 2021 must be maintained.

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

9.2.8 Where multiple layers of batts are required to make up the thicknesses needed to meet specific U value requirements (see Tables 6 and 7), joints must be offset by 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 roof tiles/slates are 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 the 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 saw. For large volume work, a straight-knife textile bandsaw may be used.

A.3 The product is self-supporting by friction fitting between timber joists/rafters.

A.4 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 Care must be taken not to apply the product to flue pipes or electrical cables that are not contained within a suitable conduit or trunking.

A.7 After completion, a survey should be performed to check that electrical cables and flues are not obstructed. Corrective measures must be taken to clear any such obstruction.

Warm pitched roof — insulation between rafters only

A.8 The product should be cut to fit tightly between the timber rafters. Typical installation details are shown in Figures 1 and 2.

A.9 A 50 mm ventilated air gap must be maintained between the product and any sarking boards or underlay.

Figure 1 Pitched roof to wall head detail

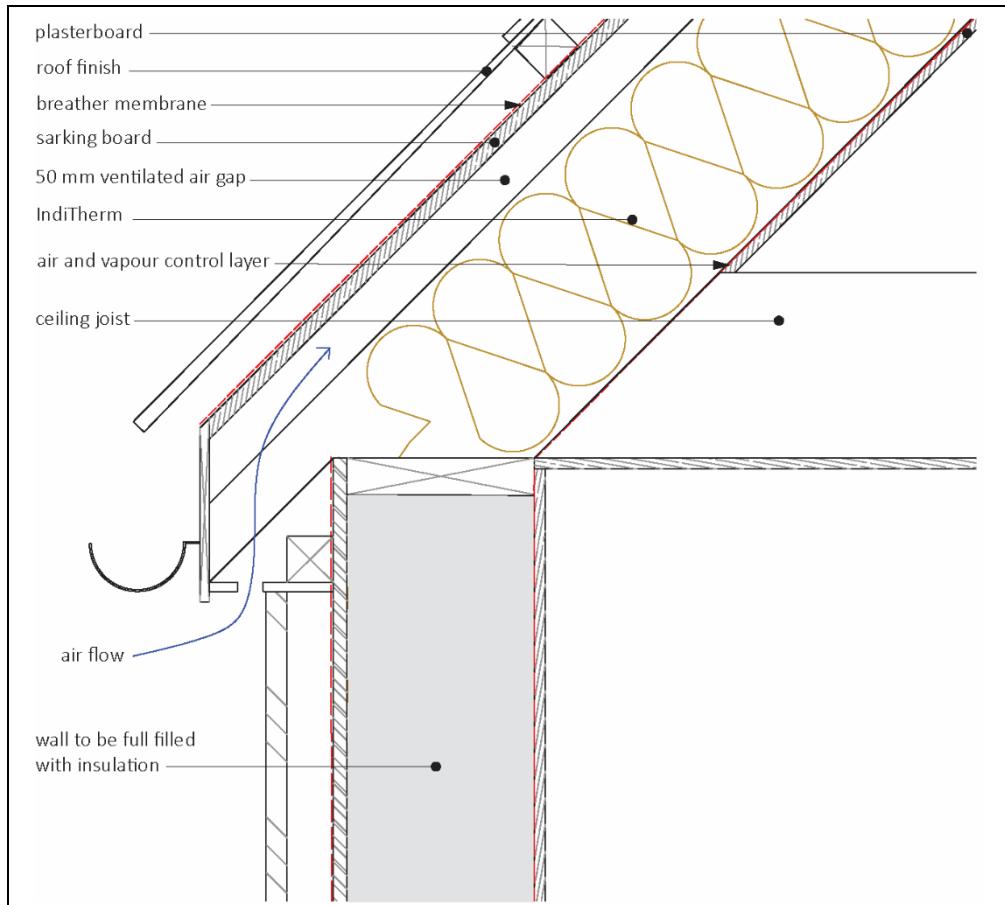
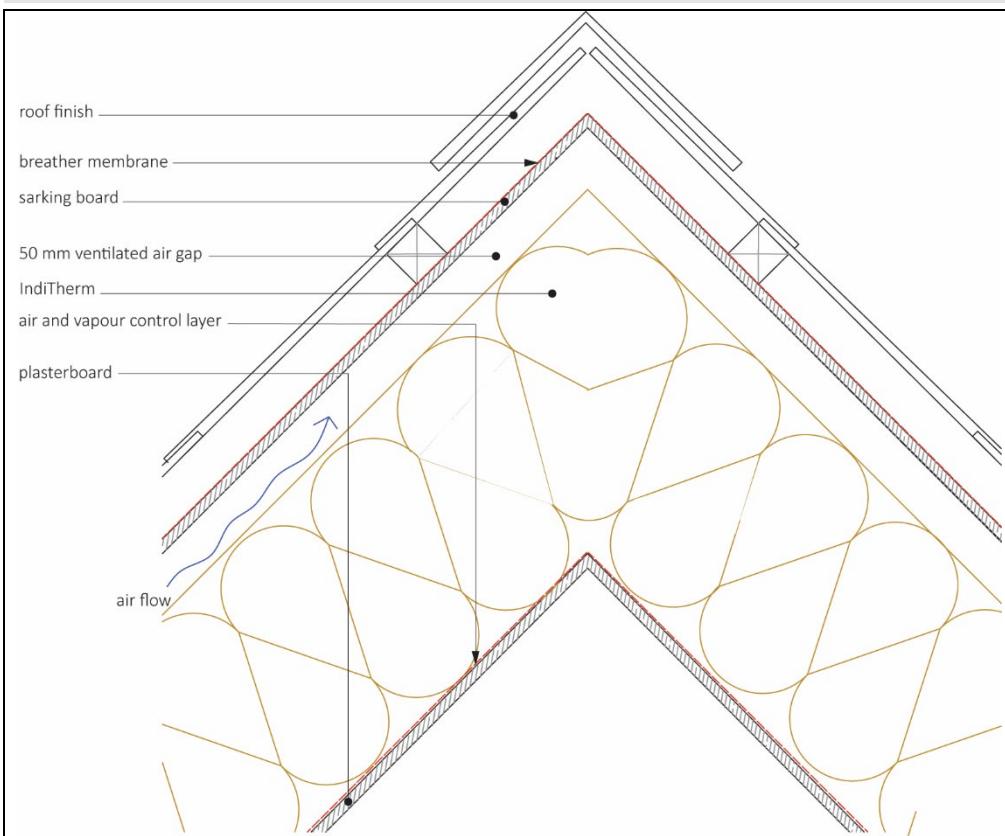


Figure 2 Pitched roof to wall head detail



Cold pitched roof with insulation at ceiling level: loft application

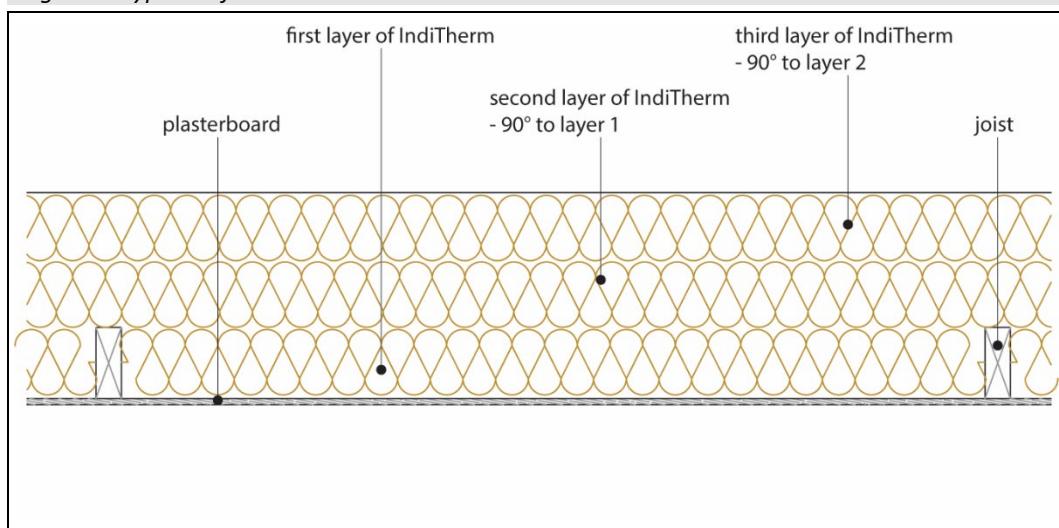
A.10 To reduce the risk of frost damage, the pipes and tank in the loft space should be lagged before installing the product. The area directly below cold-water tanks when resting at joist level must not be insulated to avoid the risk of the stored water freezing in cold weather.

A.11 During and post installation, it is essential that all ventilation points (for example, eaves gaps and air bricks at gable ends) are kept clear of insulant so that the airflow is maintained.

A.12 The product should be installed from inside the roof space, after tiling or slating is completed.

A.13 The product is applied to the air and vapour control layer (AVCL), between ceiling joists (see Figure 3). The product may also be applied over joists.

Figure 3 Typical loft detail



A.14 When adding additional layers of insulation, these must be placed at right angles to the layer below.

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 5534 : 2014 + A2 : 2018 *Slating and tiling for pitched roofs and vertical cladding — Code of practice*

BS 8103-3 : 2009 *Structural design of low-rise buildings — Code of practice for timber floors and roofs for housing*

BS 8212 : 1995 *Code of practice for dry lining and partitioning using gypsum plasterboard*

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

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 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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