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Agrément Certificate 21/5858

Product Sheet 1

JABLITE FLOOR INSULATION

JABFLOOR 70

This Agrément Certificate Product Sheet⁽¹⁾ relates to Jabfloor 70, a rigid expanded polystyrene (EPS) board for use as thermal insulation in ground-bearing or suspended concrete ground-floors in new and existing domestic or similar buildings.

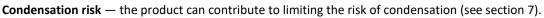
(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- · formal three-yearly review.

KEY FACTORS ASSESSED

Thermal performance — the product has a declared thermal conductivity (λ_D) value of 0.038 W·m⁻¹·K⁻¹ (see section 6).



Floor loading — the product, when installed in accordance with this Certificate, can support a design loading for domestic applications (see section 9).

Durability — the product will have a life equivalent to that of the floor structure in which it is incorporated (see section 12).

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 First issue: 20 April 2021 Hardy Giesler

Chief Executive Officer

The BBA is a UKAS accredited certification body – Number 113.

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

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

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

British Board of Agrément

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Regulations

In the opinion of the BBA, Jabfloor 70, 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 presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:

A1 Loading

Comment:

The product can contribute to satisfying this Requirement. See section 9.2 of this

Certificate.

Requirement: C2(c)

C2(c) Resistance to moisture

Comment:

The product can contribute to satisfying this Requirement. See sections 7.1 and 7.4 of

this Certificate.

Requirement: L1(a)(i)

L1(a)(i) Conservation of fuel and power

Comment: The product can contribute to satisfying this Requirement. See sections 6.1 and 6.2 of

this Certificate.

Regulation:

7(1) Materials and workmanship

Comment: The product is acceptable. Se

The product is acceptable. See section 12 and the *Installation* part of this Certificate.

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 consumption rates for new buildings (applicable to Wales only)

Regulation: 26B Fabric performance values for new dwellings (applicable to Wales only)

Comment: The product can contribute to satisfying these Regulations. See sections 6.1 and 6.2 of

this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation: Comment: 8(1) Durability, workmanship and fitness of materials

The product is acceptable. See section 12 and the *Installation* part of this Certificate.

Regulation: 9 Building standards applicable to construction

Standard:

1.1(b) Structure

Comment: I.I(b) Structure The pro

The product can contribute to satisfying this Standard, with reference to clause 1.1.1⁽¹⁾⁽²⁾.

See section 9.2 of this Certificate.

Standard:

3.15 Condensation

Comment: The product can contribute to satisfying this Standard, with reference to clauses

 $3.15.1^{(1)}$, $3.15.4^{(1)}$ and $3.15.5^{(1)}$. See sections 7.1 and 7.5 of this Certificate.

Standard: 6.1(b) Standard: 6.2

6.1(b) Carbon dioxide emissions

Standard: 6.2 Building insulation envelope

The product can contribute to satisfying these Standards, with reference to clauses, or parts of, $6.1.1^{(1)}$, $6.1.6^{(1)}$, $6.2.1^{(1)}$, $6.2.3^{(1)}$, $6.2.4^{(1)}$, $6.2.5^{(1)}$, $6.2.6^{(1)}$, $6.2.7^{(1)}$, $6.2.9^{(1)}$, $6.2.10^{(1)}$,

 $6.2.11^{(1)}$ and $6.2.13^{(1)}$. See sections 6.1 and 6.2 of this Certificate.

Standard:

Comment:

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 a bronze level of sustainability as defined in this Standard. In addition, the product can contribute to a construction meeting a higher level of sustainability as defined in this Standard, with reference to clauses 7.1.4⁽¹⁾ [Aspects $1^{(1)}$ and $2^{(1)}$], 7.1.6⁽¹⁾ [Aspects $1^{(1)}$ and $2^{(1)}$] and

 $7.1.7^{(1)}$ [Aspect $1^{(1)}$]. See section 6.1 of this Certificate.

Regulation:

12 Building standards applicable to conversions

Comment: Comments made in relation to this 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).

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

Regulation: Comment: 23 Fitness of materials and workmanship

The product is acceptable. See section 12 and the *Installation* part of this Certificate.

Regulation:

29 Condensation

Comment: The product can contribute to satisfying this Regulation. See section 7.1 of this

Certificate.

Regulation:

30 Stability

Comment: The product can contribute to satisfying this Regulation. See section 9.2 of this

Certificate.

Regulation: Regulation:

Comment:

39(a)(i) Conservation measures

40(2) Target carbon dioxide emission rate

The product can contribute to satisfying these Regulations. See sections 6.1 and 6.2 of

this 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.

See section: 3 *Delivery and site handling* (3.4) of this Certificate.

Additional Information

NHBC Standards 2021

In the opinion of the BBA, Jabfloor 70, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 5.1 *Substructure and ground bearing floors* and 5.2 *Suspended ground floors*.

CE marking

The Certificate holder has taken the responsibility of CE marking the product in accordance with harmonised European Standard BS EN 13163: 2012.

Technical Specification

1 Description

Jabfloor 70 comprises a rigid EPS 70 white expanded polystyrene board, with the nominal characteristics given in Table 1 of this Certificate.

Table 1 Nominal characteristics	
Size (mm)	1200 x 2400
Thickness ⁽¹⁾ (mm)	25, 30, 40, 50, 60, 75, 100, 120, 150 and 200
Flatness (mm/m)	Class P(30)
Edge detail	Plain
Minimum compressive stress at 10% deformation (kPa)	70

⁽¹⁾ Other thicknesses available on request.

2 Manufacture

- 2.1 Jabfloor 70 is manufactured from expanded polystyrene (EPS). The material comprises expandable beads of polystyrene, pre-foamed and fused together in a steam-heated mould under pressure. This produces a block of material, which is then cut to size and shape.
- 2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:
- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out 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.
- 2.3 The management system of Jablite Limited has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by Certified Quality Systems Ltd (Certificate GB2005746).

3 Delivery and site handling

- 3.1 The product, which is light and easy to handle, is delivered to site in polythene-wrapped packs incorporating a label bearing the manufacturer's trade name, product description and characteristics, and the BBA logo incorporating the number of this Certificate.
- 3.2 The product must be protected from prolonged exposure to sunlight and should be stored either under cover or protected with opaque polythene sheeting. Where possible, packs should be stored inside. If stored outside, packs should be stacked flat, and raised above ground level to prevent contact with ground moisture.
- 3.3 The product must be discarded if damaged or contaminated and, if accidentally allowed to become wet, should be allowed to dry fully before installation.
- 3.4 The product must not be exposed to open flame or other ignition sources, or to solvents or other chemicals.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Jabfloor 70.

Design Considerations

4 Use

4.1 Jabfloor 70 is satisfactory for use as floor insulation and is effective in reducing the thermal transmittance (U value) of ground-bearing or suspended concrete ground-floors in new and existing domestic or similar buildings. The product can also be used on suitably designed beam-and-block floors incorporating Type R2 semi-resisting or resisting blocks to BS EN 15037-2: 2009 and self-bearing beams to BS EN 15037-1: 2008.

- 4.2 Ground-bearing floors should only be used where the depth of compacted fill is less than 600 mm and defined as non-shrinkable. Shrinkable fills are defined as material containing more than 35% fine particles (silt and clay) and with a Plasticity Index of 10% or greater (shrinkable fills are susceptible to clay heave).
- 4.3 Ground-bearing concrete and suspended concrete ground-floors incorporating the product must include a suitable damp-proof membrane (dpm) laid beneath the insulation, in accordance with the relevant clauses of CP 102 : 1973 and BS 8215 : 1991 (see sections 14.5 and 14.6 of this Certificate).
- 4.4 Suspended concrete ground-floors incorporating the insulation boards must include suitable ventilation of the subfloor void (minimum 150 mm void between the underside of the floor and the ground surface) or a dpm. For suspended floors in locations where clay heave is anticipated, an additional void of up to 150 mm may be required to accommodate the possible expansion of the ground below the floor. In such cases where the risk of clay heave has been confirmed by geotechnical investigations by a competent individual, a total void of up to 300 mm may be required.
- 4.5 The overlay to the insulation boards should be:
- a vapour control layer (VCL) (see section 7.3) and
- a cement-based floor screed of minimum 65 mm thickness⁽¹⁾, laid in accordance with the relevant clauses of BS 8204-1: 2003 and/or BS 8204-2: 2003, and BS 8000-9: 2003,

or

a wood-based floor (eg tongue-and-groove plywood to BS EN 636: 2012, flooring grade particle board [Types P5 to P7] to BS EN 312: 2010 or oriented strand board [OSB] of type OSB/3 or OSB/4 to BS EN 300: 2006) of a suitable thickness to be determined by a suitably qualified and experienced individual, installed in accordance with PD CEN/TR 12872: 2014 and BS EN 12871: 2013,

or

- a concrete slab to BS EN 1992-1-1: 2004.
- (1) NHBC only accept ground bearing floor slabs with at least 100 mm thick concrete including monolithic screed.
- 4.6 Where a concrete screed or slab finish is laid directly over the product, a polyethylene separating layer/VCL must be installed between the insulation and the concrete to prevent seepage between the boards (see section 14.7). Any gaps between insulation boards or around service openings, visible prior to installing the concrete, must be filled with expanding foam or strips of insulation.
- 4.7 Loadbearing walls must not be built on the insulation.
- 4.8 If present, mould or fungal growth should be treated prior to the application of the product.

5 Practicability of installation

The product is designed to be installed by a competent general builder, or a contractor, experienced with this type of product.

6 Thermal performance



- 6.1 Calculations of the thermal transmittance (U value) of a floor should be carried out in accordance with BS EN ISO 6946 : 2017, BS EN ISO 13370 : 2017 and BRE Report BR 443 : 2019 using the declared thermal conductivity (λ_D) value of 0.038 W·m⁻¹·K⁻¹.
- 6.2 The U value of a completed floor will depend on the insulation thickness, the perimeter/area ratio and the floor type. Calculated U values for example constructions are given in Table 2.

Table 2 Example U values ⁽¹⁾ (W·m ⁻² ·K ⁻¹) — ground floor construction									
Floor type	Perimeter/	EPS	Minimum insulation thickness (mm) Target U value (W·m ⁻² ·K ⁻¹)						
	area ratio								
			0.13	0.15	0.20	0.22	0.25		
Ground-	0.2	Jabfloor 70	155	120	65	55	35		
bearing	0.4	(white)	205	170	110	95	80		
concrete floor	0.6		225	190	130	115	95		
	0.8		235	200	140	125	105		
	1.0		240	205	145	130	110		
Suspended	0.2	Jabfloor 70	180	150	90	75	55		
concrete floor	0.4	(white)	215	185	125	110	90		
	0.6		230	200	140	120	100		
	0.8		235	205	145	130	110		
	1.0		240	210	150	135	115		

⁽¹⁾ Construction used:

- 300 mm thick perimeter wall with U value of 0.35 W·m⁻²·K⁻¹
- 100 mm concrete slab with conductivity 2.06 W·m⁻¹·K⁻¹ and a minimum 65 mm concrete screed with conductivity 1.15 W·m⁻¹·K⁻¹
- underfloor ventilation area is 0.0015 m²·m (applies to suspended concrete floors only; minimum 150 mm clear ventilated void beneath the floor)
- ground conductivity is 1.5 W·m⁻¹·K⁻¹
- all other parameters are default values from BRE Report BR 443 : 2019.

Junctions

6.3 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.

Figure 1 Junction between the floor and the wall

Jablite Edge Insulation Strip

screed
minimum 150 mm below top of
perimeter insulation strip

Jablicor 70
dampproof membrane

concrete slab

7 Condensation risk

Interstitial condensation



7.1 Floors will adequately limit the risk of interstitial condensation when they are designed and constructed in accordance with BS 5250: 2011, Annex F and the relevant guidance.

- 7.2 For the purposes of assessing the risk of interstitial condensation, the product has a water vapour resistivity exceeding 100 MN·s·g $^{-1}$ ·m $^{-1}$.
- 7.3 When the product is used above the dpm on a ground-bearing floor, or on a suspended concrete floor, a VCL is installed on the warm side of the insulation to inhibit the risk of interstitial condensation, unless a risk assessment shows this is not necessary.

Surface condensation



7.4 Floors will adequately limit the risk of surface condensation when the thermal transmittance (U value) does not exceed 0.7 $W \cdot m^{-2} \cdot K^{-1}$ at any point, and the junctions with walls are designed in accordance with section 6.3 of this Certificate.



7.5 Floors will adequately limit the risk of surface condensation when the thermal transmittance (U value) does not exceed 1.2 W·m $^{-2}$ ·K $^{-1}$ at any point. Guidance may be obtained from BS 5250 : 2011, Annex F. Further guidance may be obtained from BRE Report BR 262 : 2002 and section 6.3 of this Certificate.

8 Behaviour in relation to fire

The Certificate holder has not declared a reaction to fire classification for the product to BS EN 13501-1: 2018.

9 Floor loading

9.1 The Certificate holder has declared a designation code of CS(10)70 in accordance with BS EN 13163 : 2012 (compressive stress at 10% deformation to BS EN 826 : 2013) for Jabfloor 70.



- 9.2 The product is suitable for the domestic occupancies defined in this Certificate when covered with a suitable floor overlay (see section 4.5), and is capable of resisting a uniformly distributed load of 1.5 kN·m⁻² or a concentrated load of 2 kN for category A1 and A2 (domestic) situations as defined in BS EN 1991-1-1: 2002, National Annex Table NA.2. Further assessment is necessary in the case of duty walkways and floors subject to physical activities.
- 9.3 The performance of the floor construction will depend on the insulation properties and type of floor overlay used (including thickness and strength). Where the product is used under a concrete slab, resistance to concentrated and distributed loads is a function of the slab specification. Further guidance on the suitability of floor overlays can be found in BS EN 13810-1: 2002, DD CEN/TS 13810-2: 2003, BS 8204-1: 2003 and BS EN 312: 2010, and from the flooring manufacturer.

10 Incorporation of services

- 10.1 De-rating of electrical cables should be considered where the insulation restricts air cooling of cables; the product must not be used in direct contact with electrical heating cables or hot water pipes.
- 10.2 Where possible, electrical conduits, gas and water pipes or other services should be contained within ducts or channels within the concrete slab of ground-bearing floors. Where this is not possible, the services may be accommodated within the insulation, provided they are securely fixed to the concrete slab. Electrical cables should be enclosed in a suitable conduit. With hot pipes, the insulation must be cut back to maintain an air space.
- 10.3 Where water pipes are installed, either within the slab or the insulation, they must be pre-lagged with close-fitting pipe insulation, eg extruded polyethylene foam. Pipes installed above the insulation will not require lagging, although some provision needs to be made for expansion and contraction.
- 10.4 Where the product is installed on a floor of a suspended beam-and-block design, all services must be installed so as not to impair the floor performance.

10.5 On overlay board floors, in situations where access to the services is desirable, a duct may be formed by mechanically fixing to the floor, timber bearers of the same thickness as the insulation to provide support for a particle board cover. The duct should be as narrow as possible, and not exceed 400 mm in width or the maximum particle board spans given in PD CEN/TR 12872: 2014 without intermediate support. Services should be suitably fixed to the floor base and not to the insulation boards (see section 6.3 with regard to limiting heat loss).

11 Maintenance

As the product is confined within the floor and has suitable durability (see section 12), maintenance is not required.

12 Durability



The product is durable, rot-proof and dimensionally stable and, when installed with the overlays specified in this Certificate, will remain effective as an insulating material for the life of the building in which it is incorporated.

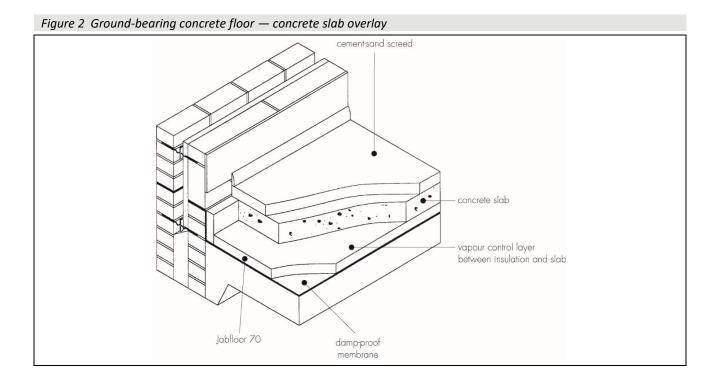
13 Reuse and recyclability

Jabfloor 70 expanded polystyrene (EPS) is fully recyclable.

Installation

14 General

- 14.1 Installation of Jabfloor 70 must be in accordance with the Certificate holder's installation instructions and the requirements of this Certificate.
- 14.2 Typical methods of installation are shown in Figures 2 to 4. Reference should also be made to BRE Report BR 262 : 2002.



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cement-sand screed

concrete slab
vapour control layer between insulation and screed

damp-proof membrane

rigure 4 Ground-bearing concrete floor — timber board overlay

timber board overlay

vapour control layer between insulation and overlay board

dampproof membrane

- 14.3 In ground-bearing concrete floors (see Figures 2 to 4), the concrete floor slab over which the product is laid should be left for as long as possible to maximise drying out and dissipation of constructional moisture, in accordance with BS 8203: 2017, Section 3.1.2.
- 14.4 The concrete floor surface should be smooth, level and flat to within 5 mm when measured with a two-metre straight-edge. Irregularities greater than this must be removed. Minor irregularities (up to 10 mm deep) may be levelled with mortar or thin screed.
- 14.5 Where the insulation is used over ground-bearing concrete floor slabs, a suitable dpm in accordance with CP 102: 1973 should be laid to resist moisture from the ground. If a liquid-type dpm is applied to the slabs, it should be of a type compatible with expanded polystyrene, and allowed to dry out fully before laying the insulation.
- 14.6 Where the insulation is used on hardcore bases beneath ground-bearing concrete slabs, the hardcore must be compacted and blinded with a thin layer of sand before application of the dpm, followed by the insulation boards.

- 14.7 A VCL is installed on the warm side of the insulation to inhibit the risk of interstitial condensation if necessary (see section 7.3). Where a concrete screed or slab finish is to be laid over the product, a polyethylene separating layer/VCL must be installed between the insulation and the concrete to prevent seepage between the boards.
- 14.8 The insulation can be used on suitable beam-and-block suspended concrete floors (see section 4.1).
- 14.9 Where a screed or concrete slab is laid over the insulation, vertical upstands of insulation of a sufficient depth to fully separate the screed or slab from the wall, should be provided. If used, a suitable cavity wall insulation material should be extended below the dpc level to provide edge insulation to the floor.
- 14.10 To limit the risk of condensation and other sources of dampness, the insulation and overlays should only be laid after the construction is made substantially weathertight, eg after glazing. During construction, the insulation and overlay must be protected from damage by traffic, moisture sources (such as water spillage) and plaster droppings.

15 Procedure

- 15.1 The product is cut to size (using a sharp knife or fine-toothed saw), as necessary, and laid with closely butted, staggered cross-joints, ensuring that all spaces are completely filled.
- 15.2 The laying pattern should ensure that all cut edges are at the perimeter of the floor or some other feature, eg matwells, thresholds or access ducts. Spreader boards should be used to protect the insulation.

Cement-based screed overlay

15.3 Perimeter edge pieces are cut and placed around the edges and taped at joints. A polyethylene VCL, at least 0.125 mm thick (500 gauge), is laid over the insulation. The VCL should have 150 mm overlaps, taped at the joints and turned up 100 mm at the walls. A properly compacted screed of a minimum 65 mm thickness is then laid over. The relevant clauses of BS 8204-1: 2003 should be followed.

Concrete slab overlay (ground-bearing only)

15.4 Perimeter edge pieces are cut and placed around the edges and taped at joints. A polyethylene VCL, at least 0.125 mm thick (500 gauge), is laid over the insulation. The VCL should have 150 mm overlaps, taped at the joints and turned up 100 mm at the walls. The concrete slab is laid to the required thickness in accordance with BS 8000-9: 2003 and BS 8204-1: 2003.

Timber-based board overlay

- 15.5 Before laying the overlay, preservative-treated timber battens, in accordance with BS 8417 : 2011, are positioned at doorways and access panels. Adequate time should be allowed for preservatives to be fixed and the solvents from solvent-based preservatives to evaporate.
- 15.6 A polyethylene VCL of at least 0.125 mm (500 gauge) thickness is laid between the insulation and the timber board overlay. The VCL should have 150 mm overlaps, taped at the joints and turned up 100 mm at the walls.
- 15.7 Timber-based overlay boards as specified in section 4.5 of this Certificate are laid with staggered cross-joints, in accordance with PD CEN/TR 12872 : 2014 and BS EN 12871 : 2013.

Technical Investigations

16 Tests

Results of tests were assessed to determine:

- compressive stress at 10% deformation
- thermal conductivity
- density
- dimensional accuracy.

17 Investigations

- 17.1 Existing data on durability and properties in relation to fire were evaluated.
- 17.2 A calculation was undertaken to confirm the declared thermal conductivity (λ_D).
- 17.3 A series of U value calculations was carried out.
- 17.4 A condensation risk analysis was carried out.
- 17.5 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

Bibliography

BS 5250: 2011 + A1: 2016 Code of practice for control of condensation in buildings

BS 8000-9 : 2003 Workmanship on building sites — Cementitious levelling screeds and wearing screeds — Code of practice

BS 8203: 2017 Code of practice for installation of resilient floor coverings

BS 8204-1 : 2003 + A1 : 2019 Screeds, bases and in-situ floorings — Concrete bases and cement sand levelling screeds to receive floorings — Code of practice

BS 8204-2: 2003 + A2: 2011 Screeds, bases and in-situ floorings — Concrete wearing surfaces — Code of practice

BS 8215: 1991 Code of practice for design and installation of damp-proof courses in masonry construction

BS 8417: 2011 + A1: 2014 Preservation of wood — Code of practice

BS EN 300: 2006 Oriented Strand Boards (OSB) — Definitions, classification and specifications

BS EN 312 : 2010 Particleboards — Specifications

BS EN 636: 2012 + A1: 2015 Plywood — Specifications

BS EN 826: 2013 Thermal insulating products for building applications — Determination of compression behaviour

BS EN 1991-1-1: 2002 Eurocode 1: Actions on structures — General actions — Densities, self-weight, imposed loads for buildings

NA to BS EN 1991-1-1 : 2002 UK National Annex to Eurocode 1 : Actions on structures — General actions — Densities, self-weight, imposed loads for buildings

BS EN 1992-1-1: 2004 + A1: 2014 Eurocode 2: Design of concrete structures — General rules and rules for buildings

BS EN 12871 : 2013 Wood-based panels — Performance specifications and requirements for load bearing boards for use in floors, walls and roofs

BS EN 13163 : 2012 + A2 : 2016 Thermal insulation products for buildings — Factory made expanded polystyrene (EPS) products — Specification

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

BS EN 13810-1: 2002 Wood-based panels — Floating floors — Performance specifications and requirements

BS EN 15037-1: 2008 Precast concrete products - Beam-and-block floor systems — Beams

BS EN 15037-2: 2009 + A1: 2011 Precast concrete products — Beam-and block floor systems — Concrete blocks

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

BS EN ISO 9001 : 2015 Quality management systems — Requirements

BS EN ISO 13370: 2017 Thermal performance of buildings — Heat transfer via the ground — Calculation methods

CP 102: 1973 Code of practice for protection of buildings against water from the ground

PD CEN/TR 12872: 2014 Wood-based panels — Guidance on the use of load-bearing boards in floors, walls and roofs

DD CEN/TS 13810-2 : 2003 Wood-based panels — Floating floors — Test methods

BRE Report (BR 262: 2002) Thermal insulation: avoiding risks

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

Conditions of Certification

18 Conditions

18.1 This Certificate:

- relates only to the product/system 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.
- 18.2 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.
- 18.3 This Certificate will remain valid for an unlimited period provided that the product/system 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.
- 18.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.
- 18.5 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/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

18.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system 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.