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Agrément Certificate

24/7268

Product Sheet 1 Issue 1

SHEATHING BOARDS

SWISSPEARL WINDSTOPPER EXTREME

This Agrément Certificate Product Sheet⁽¹⁾ relates to Swisspearl Windstopper Extreme, fibre-cement boards for use on new and existing buildings above the damp-proof course (DPC) level, providing temporary weather protection prior to over-cladding with a permanent façade rainscreen cladding. The product can be used structurally when applied to steel-frame substrate walls. The product is non-structural when applied to timber-frame substrate walls, providing racking resistance where required.

(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 issue: 28 October 2024

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 Swisspearl Windstopper Extreme, 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:	A1	Loading
Comment:		The product can contribute to satisfying this Requirement. See section 1 of this Certificate.
Requirement:	B3(4)	Internal fire spread (structure)
Comment:		The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	7(2)	Materials and workmanship
Comment:		The product may be unrestricted by this Regulation. See section 2 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The use of the product satisfies the requirements of this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	8(3)	Fitness and durability of materials and workmanship
Comment:		The product may be unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	9	Building standards – construction
Standard:	1.1(a)(b)	Structure
Comment:		The product can contribute to satisfying this Standard, with reference to clause 1.1.1 ⁽¹⁾⁽²⁾ . See section 1 of this Certificate.
Standard:	2.3	Structural protection
Comment:		The product can contribute to satisfying these Standards, with reference to clauses 2.1.1 ⁽²⁾ , 2.1.12 ⁽²⁾ , 2.2.1 ⁽¹⁾⁽²⁾ , 2.2.4 ⁽²⁾ , 2.2.5 ⁽²⁾ , 2.2.6 ⁽¹⁾ , 2.2.7 ⁽¹⁾ , 2.2.8 ⁽¹⁾ and 2.3.2 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	2.4	Cavities
Comment:		The product can contribute to satisfying this Standard, with reference to clause 2.4.2 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	2.6	Spread to neighbouring buildings
Comment:		The product may be unrestricted by this Standard, with reference to clauses 2.6.5 ⁽¹⁾ and 2.6.6 ⁽²⁾ . See section 2 of this Certificate. See section 2 of this Certificate.
Standard:	2.7	Spread on external walls
Comment:		The product may be unrestricted by this Standard. See section 2 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 satisfying a bronze level of sustainability as defined in this Standard.
Regulation:	12	Building standards – conversion
Comment:		All comments given for the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ .
		(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)	The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	23(2)	Fitness of materials and workmanship
Comment:		The product may be unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	30	Stability
Comment:		The product can contribute to satisfying this Regulation. See section 1 of this Certificate.
Regulation:	35(4)	Internal fire spread — structure
Comment:		The product can contribute to satisfying this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, Swisspearl Windstopper Extreme, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Part 6 *Superstructure (excluding roofs)*, Chapters 6.2 *External timber framed walls* and 6.10 *Light steel framed walls and floors*.

Fulfilment of Requirements

The BBA has judged Swisspearl Windstopper Extreme to be satisfactory for use as described in this Certificate. The product has been assessed as structural sheathing boards for use on new and existing buildings above DPC level, providing temporary weather protection prior to over-cladding with a permanent façade rainscreen cladding. The product can be used structurally when applied to steel-frame substrate walls. The product is non-structural when applied to timber-frame substrate walls, providing racking resistance where required. The product is supported at 600 mm maximum centres between timber/steel studs. The use of the product on timber-frame walls is restricted in some cases (see section 2).

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. Swisspearl Windstopper Extreme sheathing board is a fibre cement sheathing board.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of Swisspearl Windstopper Extreme

Characteristic (unit)	Value
Maximum length (mm)	3150
Maximum width (mm)	1250
Thickness (mm)	9
Mass per unit area ($\text{kg}\cdot\text{m}^{-2}$) ⁽¹⁾	13.6
Minimum dry density ($\text{kg}\cdot\text{m}^{-3}$)	1300
Edge	Square
Colour	Natural Grey

(1) Average weight including 10% moisture.

The product is installed with Swisspearl Windstopper Tape to provide a watertight seal. Swisspearl Windstopper Tape is a self-adhered, waterproof flashing tape, supplied in 75 mm wide by 25000 mm long rolls.

Ancillary Items

The Certificate holder recommends the following ancillary items for use with the product, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- fixings — for attaching the product to light gauge steel-frame or timber-frame — 3.1 x 38 x 9.5 mm (Verpa Senco B.V. HJ17ASAVR, coil nail) and 2.5 x 50 x 5.8 mm (Kyocera Unimerco Fastening TJEP ZE 25/50 nail) head diameter screws to BS 5427 : 2016
- fixings — for attaching the product to light gauge steel-frame — 4.2 x 30 x 7.9 mm Swisspearl 30 universal screw (wing drill screw, hardened steel, Zyntec GX) to BS 5427 : 2016
- steel-frame — light gauge metal frame with vertical studs at 600 mm maximum centres
- timber-frame — timber studs fixed vertically at 600 mm maximum centres
- breather membrane — in line with BS 5250 : 2021
- insulation
- sub-frame
- cavity
- external cladding
- proprietary sealer.

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

Data were assessed for the following characteristics.

1.1 Wind loading

1.1.1 Resistance to wind loading was assessed and the result is given in Table 2.

Table 2 Dynamic wind load resistance

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards	EAD 090062-00-0404 : 2018	Value achieved	1.5 kN·m ⁻²

Fixings:

4.2 x 30 x 7.9 mm Swisspearl 30
universal wing drill screw
(positioned minimum 15 mm from
product edge and minimum 70 mm
from product end – see sections 9.2.3
to 9.2.7)

Substrate:

Vertical stud supports at 600 mm
distance
(1.2 mm thick steel, minimum 50 mm
flange to verticals)

Joints:

Swisspearl Windstopper Sealing Tape
50 mm x 25 m

1.1.2 On the basis of the data assessed, the construction in Table 2 achieves the dynamic wind load resistance given in Table 2.

1.2 Structural performance

1.2.1 The product's pull-through resistance of fixings was assessed and the results are given in Table 3.

Table 3 Characteristic pull-through load resistance to steel, aged – after freeze/thaw, F_{u,5} (kN)

Product assessed	Assessment method	Requirement	Result ⁽¹⁾
9 mm Windstopper Extreme boards with 4.2 x 30 x 7.9 mm Swisspearl 30 universal screw fasteners at 350 mm distance (min 15 mm from longitudinal edge)	EAD 090062-00-0404 : 2018 section 2.2.15.3 and Annex M.3	Value achieved	Centre = 0.312 kN Edge = 0.344 kN Corner = 0.704 kN

(1) The design wind load resistance value must be evaluated by applying a global safety factor to the characteristic F_{u,5} aged values given in Table 3 of this Certificate.

1.2.2 The product's racking resistance was assessed and the results are given in Table 4.

Table 4 Racking resistance

Product assessed	Assessment method	Requirement	Result			
			100 mm fixing centres to longitudinal product's edge		200 mm fixing centres to longitudinal product's edge	
			Characteristic racking resistance ($F_{i,v,RK}$)	Coefficient of rigidity of wall panel $C_{i,v}$	Characteristic racking resistance ($F_{i,v,RK}$)	Coefficient of rigidity of wall panel $C_{i,v}$
9 mm Windstopper Extreme 2400 x 1200 mm boards	BS EN 1995-1-1 : 2004, BS EN 594 : 2011 and BS EN 1380 : 2009	Value achieved				
Fixings:						
• Nails: 3.1 x 38 x 9.5 mm (Verpa Senco B.V. HJ17ASAVR, coil nail)			5.07 kN	238 N·mm ⁻¹	2.76k N	127 N·mm ⁻¹
• Nails: 2.5 x 50 x 5.8 mm (Kyocera Unimerco Fastening TJEP ZE 25/50 nail)			5.26 kN	238 N·mm ⁻¹	2.86 kN	127 N·mm ⁻¹
Substrates:						
• large scale: 2400 x 2400 mm timber-frame						

1.3 Resistance to impact

The product's resistance to impact was assessed and the result is given in Table 5.

Table 5 Resistance to Impact

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards supported at 600 mm centres	EAD 090062-00-0404	Use Category ⁽¹⁾	For use in Category III to IV

(1) Use Categories:

- I A zone readily accessible at ground level to the public and vulnerable to hard body impacts but not subjected to abnormally rough use
- II A zone liable to impacts from thrown or kicked objects, but in public locations where the height of the kit will limit the size of the impact; or at lower levels where access to the building is primarily to those with some incentive to exercise care
- III A zone not likely to be damaged by normal impacts caused by people or by thrown or kicked objects
- IV A zone out of reach from ground level.

Note: Use Categories I and II are shown for reference purposes only.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The product's reaction to fire was assessed and the result is given in Table 6.

Table 6 Reaction to fire classification

Product assessed	Assessment method / Report ⁽¹⁾	Construction	Result
9 mm Windstopper Extreme boards	BS EN 13501-1 : 2018 / PCA10710A rev 1, issued by DBI	Substrate: steel or wood Cavity: A1 mineral wool $\geq 32 \text{ kg}\cdot\text{m}^{-3}$ Joints: butted and taped with 75 mm wide Swisspearl Windstopper Tape, up to 13.3% of area	A2-s1,d0

(1) Copy available from the Certificate holder.

2.1.2 On the basis of the data assessed, the constructions in Table 6, on steel substrates, are not subject to any restriction on building height or proximity to a relevant boundary.

2.1.3 The classification and permissible areas of use of other constructions must be established by a suitably experienced and competent individual in accordance with the documents supporting the national Building Regulations.

2.1.4 Joints between the products are sealed externally with Swisspearl Windstopper Tape. The tape is classed as a seal and is unlikely to significantly affect the overall fire performance of the product.

2.1.5 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for fire resistance, cavity barriers, service penetrations and combustibility limitations for other materials components used in the overall wall construction (for example, thermal insulation and cladding).

2.2 Resistance to fire

Where a wall incorporating the product is required to achieve a period of fire resistance, its performance must be confirmed by a suitably experienced and competent individual or by a test from a suitably accredited laboratory.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Resistance to moisture

The product's water impermeability was assessed and the result is given in Table 7.

Table 7 Water impermeability

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards	EN 12467 : 2012	No formation of drops of water on the under face of the board	Pass

3.2 Water vapour permeability

The product's water vapour permeability was assessed, and the result is given in Table 8.

Table 8 Equivalent air layer thickness (s_d)

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards	BS EN ISO 12572 (Condition C)	Declared value ($s_d = 0.5 \text{ m}$)	Pass

3.3 Weathertightness

3.3.1 The product's weathertightness was assessed and the result is given in Table 9.

Table 9 Resistance to wind-driven rain

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards	EN 12865 : 2012	No formation of drops of water on the under face of the board	Pass

3.3.2 On the basis of the data assessed, provided that the joints between the product and all exposed edges are sealed, and fixings are correctly flush-fitted (ie not overtightened), to a durable and stable frame, the boards may be exposed to weather for a period of up to 12 months under normal periods and conditions of wind, rain and heat exposure prior to the rainscreen cladding finish being installed.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

7.1 Reuse and recyclability

The product is made from cement, which can be recycled.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in this product were assessed.

8.1.1 Specific test data were assessed for the following.

8.1.2 Resistance to freeze–thaw cycles were assessed, and the result is given in Table 10

Table 10 Hygrothermal behaviour

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards	EAD 090062-00-0404 : 2018, section 2.2.15 and Annex M.1	no cracking, peeling	Pass
Joints: Swisspearl Windstopper Sealing Tape 50 mm x 25 m			

8.1.3 The product's durability was assessed and the results are shown in Tables 11 and 12.

Table 11 Durability tests

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards	Bending strength to EN 12467 : 2018 after 50 soak/dry cycles	no cracking, peeling	Pass
	Bending strength to EN 12467 : 2018 after 56 days in warm water	no cracking, peeling	Pass
	Bending strength to EN 12467 : 2018 after 25 soak/dry cycles	no cracking, peeling	Pass
	Bending strength to EN 12467 : 2018 after 25 freeze-thaw cycles	no cracking, peeling	Pass
	Freeze-thaw cycling EAD 090062-00-0404 : 2018, section number 2.2.15.1	no cracking, peeling	Pass

Table 12 Heat – rain (25 and 50 cycles)

Product assessed	Assessment method	Requirement	Result
9 mm Windstopper Extreme boards	EN 12467 : 2012	No cracking, delamination, wrapping and bowing or any other defects of such degree as to affect their performance in use	Pass

8.2 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 and is not exposed for more than 12 months prior to the permanent cladding being applied.

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 by the BBA, and the following requirements apply in order to meet the performance specified in this Certificate.

9.1.2 The adequacy of the timber- or steel-frame wall to which the product is fixed is outside the scope of this Certificate and must be verified by a suitably experienced and competent individual. It must have sufficient strength to resist independently the loads imparted directly by the product and wind actions normally experienced in the UK, as well as any in-plane force effects. It must be designed and constructed in accordance with the requirements of the national Building Regulations and Standards given below.

- timber-frame walls must be designed and constructed in accordance with PD 6693-1 : 2019, BS EN 1995-1-1 : 2004 and BS EN 1995-1-2 : 2004 and their UK National Annexes, with workmanship in accordance with BS 8000-5 : 1990, and preservative-treated in accordance with BS EN 351-1 : 2013 and BS 8417 : 2011
- steel-frame walls must be structurally sound, and designed and constructed in accordance with BS EN 1993-1-1 : 2005, BS EN 1993-1-2 : 2005 and BS EN 1993-1-3 : 2006, and their UK National Annexes.

9.1.3 Any external finishes/cladding must be such that the cavity behind satisfies the minimum cavity width required by *NHBC Standards 2024*.

9.1.4 Where expansion joints occur in the timber- or steel-frame, the boards must not be installed across these joints.

9.1.5 The designer must ensure that the timber- or steel-frame has adequate strength to resist all lateral, and any other, loads on its own and is capable of sustaining the weight of the boards. No contribution may be assumed from the boards in this regard.

9.1.6 For non-structural sheathing applications, the designer must ensure that the steel- or timber-frame has adequate strength to resist all lateral, and any other, actions on its own. No contribution may be assumed from the product in this regard.

9.1.7 A suitably experienced and competent individual must check the design and method of installation of the product.

9.1.8 The cladding support brackets ('helping hands') and any other applied loads must be fixed back through the boards to the timber- or steel-frame structure. The design must ensure adequate capacity against any actions.

9.1.9 Wall cladding support systems must be fixed through the boards into the structural framing. The over-cladding or façade manufacturer must be consulted for fixing specifications. Any damaged boards must be replaced before fixing the façade.

9.1.10 The lowest point of the boards must be kept above the DPC level.

9.1.11 External walls must have suitable weather protection on the outside, and a drained and ventilated cavity must be provided between the cladding and boards. The product must be treated as a conventional sheathing board with regard to detailing and damp-proofing at openings, eaves and sole plates, and the fixing of wall ties. Where required by the design, the addition of a breather membrane must be in accordance with BS 5250 : 2021.

9.1.12 The wind actions on the wall must be calculated in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex. Special consideration must be given to locations with high wind load coefficients as additional fixings may be necessary. In accordance with BS EN 1990 : 2002, it is recommended that a partial load factor of 1.5 is used to determine the design wind load to be resisted by the product.

9.1.13 The product will provide temporary protection to weather for a period of up to 12 months and must be over-clad within this period with a permanent façade rainscreen cladding. The design, installation and performance of the permanent façade are outside the scope 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.

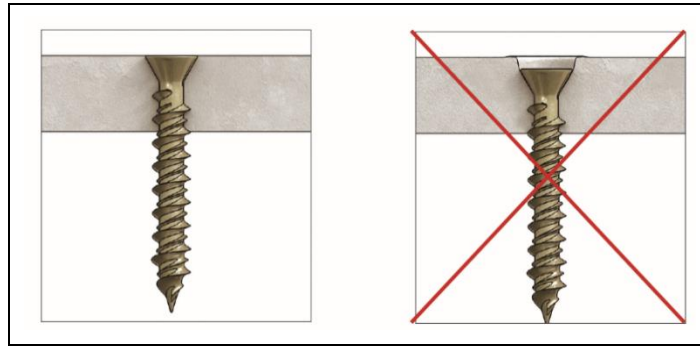
9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions. A summary of instructions and guidance is provided in Annex A.

9.2.3 The product is fixed to the steel/timber studs using the specified fixings (see the *Product description and intended use* section) at maximum 200 mm spacing to longitudinal product edges and 300 mm spacing to intermediate vertical supports (dependant on structural performance; see section 1).

9.2.4 It must be ensured that the fixings are flush-fitted (see Figure1), and positioned at a minimum of 15 mm from the longitudinal edges of the product and a minimum of 70 mm from the ends of the product (see Figures 2 and 3).

9.2.5 The detailed guidance given in the documents supporting the national Building Regulations for the provisions that are applicable when the product is installed in close proximity to certain flue pipes and/or heat-producing appliances must be followed.

Figure 1 Flush-fitted fixings



9.2.6 Once the first board is installed, subsequent boards are installed butt-jointed, ensuring that no gaps are present.

Figure 2 Board installation, vertical orientation (all dimensions in mm)

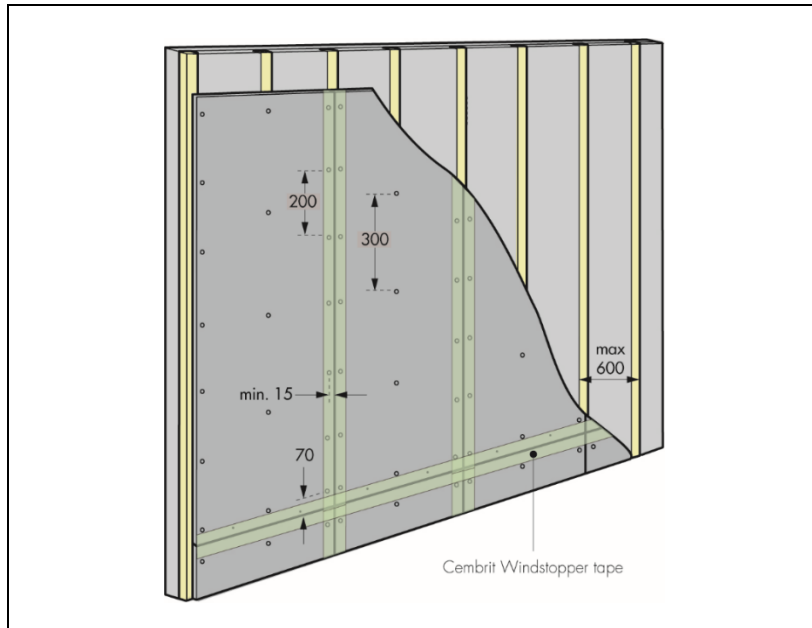
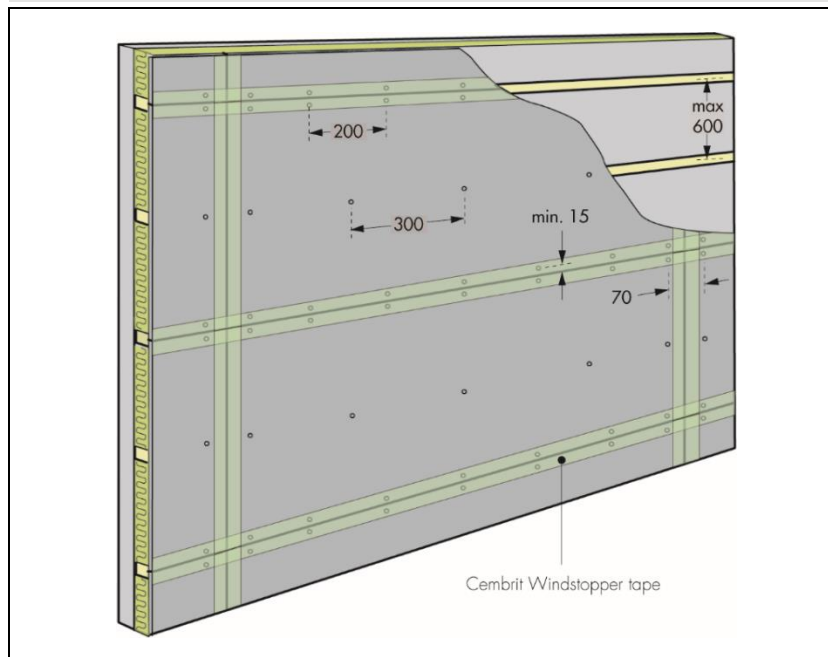


Figure 3 Board installation, horizontal orientation (all dimensions in mm)



9.2.7 Swisspearl Windstopper Tape (75 mm width) must be applied to all joints between boards during installation and proprietary sealer applied around exposed edges, such as openings, to ensure protection against water ingress.

9.2.8 The completed installation must be inspected, and any damaged boards and sealant/tape must be repaired.

9.2.9 External walls must have suitable weather protection on the outside and a ventilated cavity must be provided. The product must be treated as a conventional sheathing board with regard to detailing and damp-proofing at openings, eaves and sole plates, and the fixing of wall ties. Where required by design, the addition of a breather membrane must be in accordance with BS 5250 : 2021.

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

9.4.1 Ongoing satisfactory performance of the product in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA, and found to be appropriate and adequate.

9.4.2 As the product has suitable durability and will be confined behind rainscreen cladding, maintenance is not required.

9.4.3 Under normal conditions of use, the product is unlikely to suffer damage, but if damage does occur, the product must be replaced.

9.4.4 The product must be inspected for damage before the rainscreen cladding is applied.

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 in packaging bearing the product name, Certificate holder's name, batch number, health and safety information and weight of contents in kilograms, etc.

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

11.2.1 The product should be stored on a flat and dry level surface on pallets, or on sleepers at maximum 500 mm centres. There must be a maximum of 6 pallets in a stack, placed on a stable base (see Figure 4).

11.2.2 The product should be kept under a roof or covered by a tarpaulin with adequate ventilation around the product (see Figure 4).

Figure 4 Delivery and storage

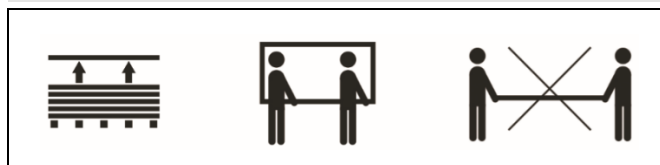


11.2.3 The product must be lifted off the pallet and not drawn over the next product, as this may cause scratches and damage on the surface (see Figure 5).

11.2.4 Manual off-loading of the product should be carried out by a minimum two-person lift, with care to avoid unnecessary strain and injury (see Figure 5).

11.2.5 The product should be carried on edge, not flat (see Figure 5).

Figure 5 Site handling



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.

CE marking

The Certificate holder has taken the responsibility of CE marking the product in accordance with harmonised European Standard EN 12467 : 2012.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of ISO/IEC 9001 : 2015 by Bureau Veritas Certification (Certificate FIHSK11001891AB).

Additional information on installation

General

A.1 The product is designed to be installed by a suitably experienced and competent individual.

A.2 Installation must be in accordance with the Certificate holder's instructions and this Certificate.

A.3 Reasonable precautions must be taken to ensure the product is not damaged during installation.

A.4 When cutting the product, power and hand tools should be used with care and in accordance with the Certificate holder's recommendations. When using fast running tools, dust exhaustion must be employed. The product may be cut with a circular saw or a jigsaw equipped with a diamond tipped blade, taking care of sharp edges. Periphery speed of any circular saws should be 40 to 50 m·s⁻¹, with a cutting depth 10 to 15 mm beyond the product.

A.5 Power tools should only be used by individuals who have been instructed and trained to use them safely. Appropriate Personal Protective Equipment (PPE) should be used.

A.6 It is important to observe appropriate health and safety legislation when working on site (such as, using PPE). The Certificate holder should be consulted for material safety data sheets and advice. When working in enclosed areas, precautions should be taken to ensure dust levels are controlled in accordance with the current issue of EH40/2005.

Procedure

Tape

A.7 In order to get a raintight system, all joints must be sealed with 75 mm wide Swisspearl Windstopper Tape, installed as shown in Figure 6.

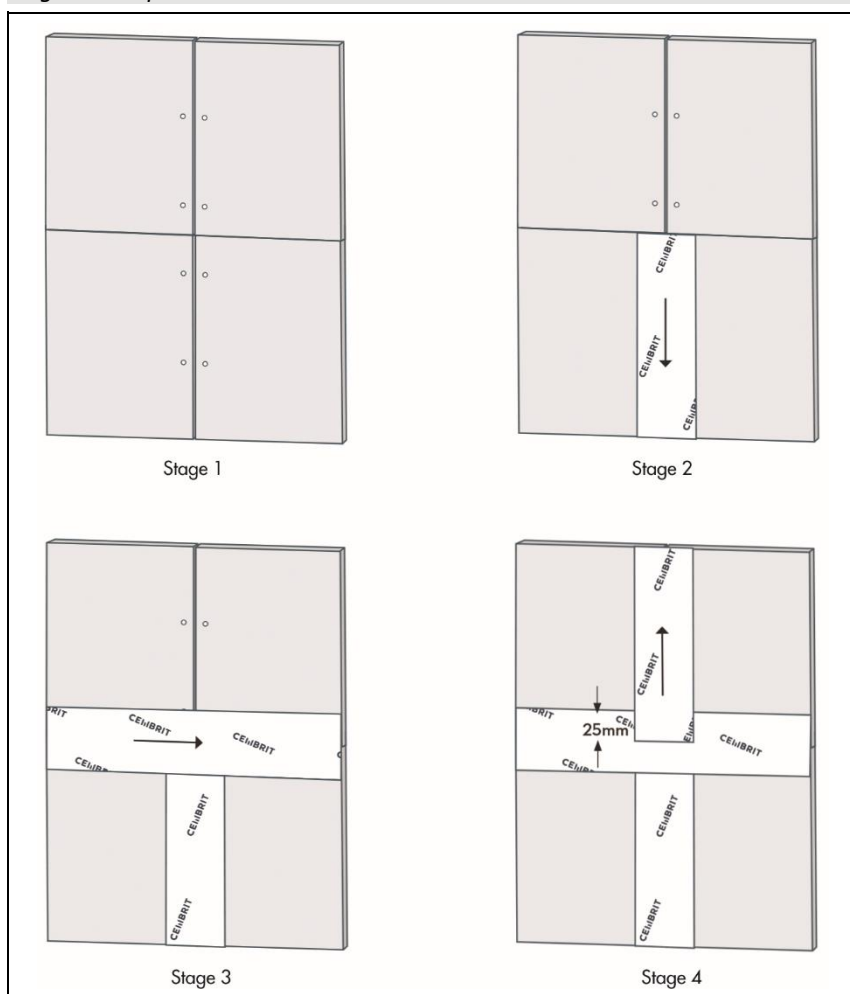
A.8 The tape can be applied when external temperatures are in the range of -20 to +50°C.

A.9 The product and surfaces must be free of any damaged or unsupported areas, sharp protrusions, or voids, and must be dry and free from dirt and debris.

A.10 To apply, a short section of the backing strip is peeled back and the tape positioned. The backing strip is removed, at the same time that firm pressure is applied to the tape as it comes into contact with the product or surface.

A.11 A roller is used, with sufficient pressure applied along the entire tape's surface to ensure a continuous seal and to eliminate air trapped beneath the tape.

Figure 6 Tape installation



Cladding

A.12 Wall claddings and wall-mounted fittings (outside the scope of this Certificate) must be fixed through the product into the structural framing. The over-cladding or façade manufacturer must be consulted for fixing specifications.

Repair

A.13 As is good practice, any damaged product must be replaced.

Bibliography

BS 5250 : 2021 + A1 : 2016 *Code of practice for control of condensation in buildings*

BS EN 351-1 : 2007 *Durability of wood and wood-based products. Preservative-treated solid wood — Classification of preservative penetration and retention*

BS EN 594 : 2011 *Timber structures — Test methods — Racking strength and stiffness of timber frame wall panels*

BS EN 1380 : 2009 *Timber structures — Test methods — Load bearing nails, screws, dowels and bolts*

BS EN 1990 : 2002 + A1: 2005 *Eurocode — Basis of structural design*

BS EN 1991-1-4 : 2005 *Eurocode 1: Actions on structures — General actions — Wind actions*

NA to BS EN BS EN 1991-1-4 : 2005 UK National Annex to *Eurocode 1: Actions on structures — General actions — Wind actions*

BS EN 1993-1-1 : 2005 *Eurocode 3: Design of steel structures — General rules and rules for buildings*

NA + A1 : 2014 to BS EN 1993-1-1: 2005 + A1: 14 UK National Annex to *Eurocode 3. Design of steel structures. General rules and rules for buildings*

BS EN 1993-1-3 : 2006 *Eurocode 3: Design of steel structures — General rules — Supplementary rules for cold-formed members and sheeting*

NA to BS EN 1993-1-3 : 2006 UK National Annex to *Eurocode 3. Design of steel structures. General rules*

BS EN 1995-1-1 : 2004 + A1: 2008 *Eurocode 5: Design of timber structures — General*

NA to BS EN 1995-1-1 : 2004 +A1: 2008 UK National Annex to *Eurocode 5: Design of timber structures. General. Common rules and rules for buildings*

BS EN 12467 : 2012 + A2 : 2018 *Fibre-cement flat sheets — Product specification and test methods*

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

EH40/2005 Workplace exposure limits - *Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended)*

EAD 090062-00-0404 *Kits for external wall claddings mechanically fixed*

ISO/IEC 9001 : 2015 *Quality management systems — Requirements*

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