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Agrément Certificate

15/5227

Product Sheet 2 Issue 4

SWISSPEARL CLADDING PANELS

SWISSPEARL LARGO NOBILIS, ZENOR, TERRA AND PLANEA PANELS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Swisspearl LARGO: Nobilis, Zenor, Terra and Planea Panels, a range of cement composite panels for use as exterior wall façade decorative panels in timber- and steel-frame buildings.

(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 products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Fourth issue: 17 June 2025

Originally certified on 26 June 2015

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 LARGO: Nobilis, Zenor, Terra and Planea Panels, 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 products can contribute to satisfying this Requirement. See section 1 of this Certificate.
Requirement:	B3(4)	Internal fire spread(structure)
Comment:		The products can contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	B4(1)	External fire spread
Comment:		The products may be restricted by this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The products can contribute to satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	7(2)	Materials and workmanship
Comment:		The products may be restricted by this Regulation. See section 2 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		The products can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	8(3)	Durability, workmanship and fitness of materials
Comment:		The products may be restricted by this Regulation. See section 2 of this Certificate.
Regulation:	9	Building standards – construction
Standard:	1.1(a)(b)	Structure
Comment:		The products can contribute to satisfying this Standard, with reference to clauses 1.1.1 ⁽¹⁾⁽²⁾ , 1.1.2 ⁽¹⁾⁽²⁾ and 1.1.3 ⁽¹⁾⁽²⁾ . See section 1 of this Certificate.
Standard:	2.4	Cavities
Comment:		The products 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 on neighbouring buildings
Comment:		The products may be restricted by this Standard, with reference to clauses 2.6.4 ⁽¹⁾⁽²⁾ , 2.6.5 ⁽¹⁾ and 2.6.6 ⁽²⁾ . See section 2 of this Certificate.

Standard:	2.7	Spread on external buildings
Comment:		The products may be unrestricted by this Standard, with reference to clause 2.7.1 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The products can contribute to satisfying this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ , 3.10.5 ⁽¹⁾⁽²⁾ and 3.10.6 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The products 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.
Regulation:	12	Building standards – conversion
Comment:		All comments given for the products 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)	Fitness of materials and workmanship
Comment:	(i)(iii)(b)(i)	The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	23(2)	Fitness of materials and workmanship
Comment:		The products may be restricted by this Regulation. See section 2 of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The products can contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation:	30	Stability
Comment:		The products can contribute to satisfying this Regulation. See section 1 of this Certificate.
Regulation:	35(4)	Internal fire spread
Comment:		The products can contribute to satisfying this Regulation. See section 2 of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		The products may be restricted by this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2025

In the opinion of the BBA, Swisspearl LARGO: Nobilis, Zenor, Terra and Planea Panels, 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), Chapter 6.9 Curtain walling and cladding*.

Fulfilment of Requirements

The BBA has judged Swisspearl LARGO: Nobilis, Zenor, Terra and Planea Panels to be satisfactory for use as described in this Certificate. The products have been assessed as a range of cement composite panels for use as exterior wall façade decorative panels in timber- and steel-frame buildings.

ASSESSMENT

Product description and intended use

The Certificate holder provide the following description for the products under assessment. Swisspearl LARGO: Nobilis, Zenor, Terra and Planea Panels are grey/white fibre-reinforced cement panels finished with a coating on the top face.

Swisspearl Nobilis and Zenor panels are finished with a glazed acrylic top coat, Terra and Planea panels with an opaque acrylic top coat.

The products are available in a range of colours.

The products have the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

Characteristic (unit)	Value
Thickness (mm)	8 and 12
Width (mm)	1220 and 1250
Length (mm)	3050
Weight ($\text{kg}\cdot\text{m}^{-2}$)	15.7 and 24.6
Density ($\text{kg}\cdot\text{m}^{-3}$)	1787 ± 150

Ancillary Items

The following ancillary items are essential to use with the products and have been assessed with the products:

- SFS AP15 aluminium blind rivet fixings — 4.0 x 18 mm with 15 and 21 mm diameter head for fixing the products to steel and aluminium sub-frames through fixed point sleeves
- SFS FP - A — 8.0 x 5.1 aluminium fixed point sleeves with 4.1 mm internal diameter
- SFS TW-S-D12 screw fixings — 4.8 x 38 mm with 12 mm diameter head for fixing the products to timber sub-frames

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

- Luko cut edge impregnation — an aqueous acrylic dispersion for use at edges.
- EPDM backing strips — ethylene-polypropylene-diene monomer (EPDM) rubber strips in 60, 120 or 150 mm widths used between timber sub-frame battens and the products
- ventilation profiles for use in ventilating cavities
- horizontal joint profile
- timber sub-frames
- metallic sub-frames
- breather membrane.

Product assessment – key factors

The products were assessed for the following key factors, and the outcome of the assessment 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 Bending strength

1.1.1 Results of bending strength tests are given in Table 2.

Table 2 Bending strength

Product assessed	Assessment method	Requirement	Result
Swisspearl LARGO Panels	BS EN 12467 : 2012	Value achieved	18 N·mm ⁻²

1.1.2 On the basis of data assessed in Tables 2 and 8, the products satisfy the requirements of Category A, Class 4 to BS EN 12467 : 2012.

1.2 Wind loading

1.2.1 Results of a wind load assessment are given in Table 3.

Table 3 Characteristic pull through resistances of fixings ⁽¹⁾⁽²⁾⁽³⁾

Product assessed	Assessment method	Requirement	Characteristic pull-through resistance (N)		
Swisspearl LARGO Panels Sub-frame: vertical rails at 600 mm distance and horizontal rails at 400 mm distance Fixings: aluminium rivets and screws	EAD 090062-00-0404	Value achieved	Panel centre	Panel edge	Panel corner
			390	330	270

(1) For design value calculations a partial factor of 3.0 must be applied.

(2) The characteristic pull-through values given in Table 3 may be adopted for fixed point holes on the product (9.5 mm diameter).

(3) Pull-through resistance for sliding point holes must be disregarded.

1.2.2 On the basis of data assessed, the products can achieve characteristic pull-through resistances given in Table 3. The products can achieve higher resistances by reducing the fixing and sub-frame centre distances.

1.3 Mechanical resistance

1.3.1 Results of resistance to impact tests are given in Table 4.

Table 4 Resistance to impact

Product assessed	Assessment method	Requirement	Result
Swisspearl LARGO Panels (installed with vertical supports at 600 centres with rivet fixings)	EAD 090062-00-0404	Use category ⁽¹⁾	Categories II to IV

(1) The Use Categories are defined in EAD 090062-00-0404:

- Category I – a zone readily accessible at ground level to the public and vulnerable to hard body impacts but not subjected to abnormally rough use
- Category 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
- Category III – a zone not likely to be damaged by normal impacts caused by people or by thrown or kicked objects
- Category IV – a zone out of reach from ground level.

1.3.2 On the basis of data assessed, the products may only be installed in areas of Use Categories II and IV.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 Results of reaction to fire tests are given in Table 5.

<i>Table 5 Reaction to fire classification</i>			
Product assessed	Assessment method	Requirement	Result ⁽¹⁾
Swisspearl LARGO: Nobilis, Zenor, Terra and Planea Panels. Thickness: ≥ 8 mm Substrate: metallic or wooden subframe Joints ⁽²⁾ : ≤ 10 mm Fixings: metal rivets and nails ⁽³⁾ Cavity ⁽³⁾ : ≥ 40 mm ± 1 mm or 20 ± 1 mm directly behind the sheets Colours: all colours	EN 13501-1 : 2018	Classification	A2-s1, d0
Reverse side of the panels (facing into the cavity)			A2-s1, d0

(1) Report PCA10941B, issued by DBI, copies are available from the Certificate holder on request.

(2) EPDM jointing strips are required to all panel joints to wooden sub-frames.

(3) With a ventilated cavity with insulation of reaction to fire classifications A1 or A2-s1, do or without insulation.

2.1.2 The constructions in Table 5 achieving an A2-s1, d0 classification are unrestricted by the documents supporting the national Building Regulations in terms of building height and proximity to a relevant boundary.

2.1.3 This classifications may not be achieved by other constructions. The classification and permissible areas of use of other constructions must be established in accordance with the documents supporting the national building Regulations.

2.1.4 Designers must refer to the relevant national Building Regulation guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall wall construction, for example, thermal insulation.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Resistance to moisture

3.1.1 The products were tested for water impermeability and the results are given in Table 6.

<i>Table 6 Water impermeability</i>			
Product assessed	Assessment method	Requirement	Result
Swisspearl Nobilis and Planea Panels	DIN EN 12467 : 2012	No formation of drops of water on the under face of the board	Pass

3.1.2 On the basis of data assessed, the products are suitable for use in back-ventilated and drained cladding systems. They do not provide a watertight or airtight facing but will contribute to resisting the passage of rainwater to the supporting structure.

3.1.3 Results of water absorption tests are given in Table 7.

<i>Table 7 Water absorption</i>			
Product assessed	Assessment method	Requirement	Result
Swisspearl LARGO Panels	MOAT 48 : 1991	Value achieved	≤ 10.73 %

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable uses of natural resources

Not applicable.

8 Durability

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

8.2 Specific test data were assessed, as shown in Table 8.

Table 8 Durability

Product assessed	Assessment method	Requirement	Result
Swisspearl LARGO Panels	Dimensional stability to BS EN 12467 : 2012	Level I (edged) Level II (unedged)	Pass
	Bending moment to BS EN 12467 : 2012 after 50 dry/wet cycles	$R_L > 0.75$	Pass
	Bending moment to BS EN 12467 : 2012 after 100 freeze/thaw cycles	$R_L > 0.75$	Pass
	50 cycles hot/rain to BS EN 12467 : 2012	No signs of de-lamination, cracking or bowing. Requirement for bowing is max 3 mm	Pass
	Hot water test to BS EN 12467 : 2012	$R_L > 0.75$	Pass
	Adhesion to substrate to MOAT 33 : 1986	No damage to coating	Pass
	Water Absorption to MOAT 48 : 1991	No water penetration	Pass
	Resistance to algal growth to MOAT 33 : 1986	$\leq 1\%$	Pass
	Resistance to artificial weathering (UV Xenon Arc Light) to ASTM G 155 1000, 2000, 3000, 4000 and 5000 hours weathering exposure	No significant colour change	Pass
	Resistance to staining to MOAT 36 : 1987	Stain removal	Pass

8.3 Service life

8.3.1 Under normal service conditions, the products will have a life in excess of 30 years provided they are designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

8.3.2 There may be some fading of colour over long exposure periods, but such weathering will be consistent across any one elevation.

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 satisfy the performance assessed in this Certificate.

9.1.2 The designer must ensure that:

- the design of the vertical sub-frame and its fixings is in accordance with the relevant codes and Standards, such as to limit mid-span deflections to span/200 and cantilever deflections to span/150
- the panels are fixed to the vertical support sub-frame using the specified fixings
- the specified panel fixings have adequate tensile and pull-out strength to resist the applied actions
- fixing of the vertical support sub-frame⁽¹⁾ to the substrate wall has adequate tensile pull-out strength and corrosion resistance. An appropriate number of site-specific pull-out tests must be conducted on the substrate wall to determine the minimum pull-out resistance to failure of the fixings. The characteristic pull-out resistance must be determined in accordance with the guidance given in EOTA TR055 : 2016, using 50% of the mean value of the five smallest measured values at the ultimate load.

(1) Outside the scope of this Certificate.

9.1.3 The substrate wall and the sub-frame to which the panels are fixed must be structurally sound and satisfy the requirements of the relevant national Building Regulations and Standards.

9.1.4 The supporting wall must be able to take the full wind loads and any racking loads on its own. No contribution from the cladding system may be assumed in this respect.

9.1.5 For new substrate walls, the designer must ensure that:

- brickwork or blockwork walls are designed and constructed in accordance with the relevant sections of BS EN 1996-1-1 : 2005, BS EN 1996-1-2 : 2005, BS EN 1996-2 : 2006 and BS EN 1996-3 : 2006, and their UK National Annexes, and PD 6697 : 2019, or one of the technical specifications given in the relevant documents supporting the national Building Regulations
- timber-frame walls are designed and constructed in accordance with the relevant sections of BS EN 1995-1-1 : 2004 and its UK National Annex, and preservative-treated where necessary, in accordance with BS 8417 : 2024. Guidance on recommended wood preservation is also given in *NHBC Standards 2024, Part 3 General, Chapter 3.3 Timber preservation (natural solid timber)*
- steel-frame walls are designed and constructed in accordance with the relevant sections of BS EN 1993-1-1 : 2005 and its UK National Annex. The installation of vertical timber battens or metal support rails must be aligned and fixed directly through to the vertical structural steel framework.

9.1.6 Ventilation and drainage must be provided behind the cladding. All ventilation openings around the periphery of a cladding system incorporating the panels must be suitably protected with mesh to prevent the ingress of birds, vermin and insects. The horizontal and vertical joints between panels are open with a minimum spacing of 10 mm.

9.1.7 Care must be taken to ensure that sufficient time is allowed for complete fixing or drying of the timber preservative before the panels are fixed.

9.1.8 The cavity gap behind the cladding must have a minimum width of 50 mm and must be drained and ventilated. The cavity drainage and ventilation gap should provide openings with a minimum ventilation area of 500 mm² per metre run along the base and head of any rainscreen wall.

9.1.9 The panels are not weathertight and when used on timber stud or on metal frame substrate walls must be backed by a breather membrane acting as a vapour-permeable water barrier, incorporated behind the cladding under the supporting battens. Where insulation is used in the cavity, the breather membrane must be provided over the outer face of the insulation.

9.1.10 Where the panels are used as a decorative facing attached to weathertight masonry walls, a breather membrane is not necessary as the amount of water that will penetrate the cladding will be small and will not have an adverse effect on the wall.

9.2 Installation

9.2.1 The 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 are provided in Annex A of this Certificate.

9.2.3 The products must be installed in accordance with the Certificate holder's instructions and this Certificate on timber and metal sub-frames, and at the spacings shown in Table 9.

Table 9 Distances to panel edges and joint widths⁽¹⁾ (mm)

Dimension	Spacing (mm)	
	Horizontal	Vertical
Distance to panel edge (min)	30	60
Distance to panel edge (max)	100	100
Panel joints for metal sub-frame	10	10
Panel joints for timber sub-frame	10	10

(1) Joints should have a minimum 10 mm opening.

9.2.4 The products must be fixed using screws to vertical timber sub-frames securely fixed to the substrate and levelled to give a flat fixing surface. The products may also be fixed directly to metal sub-frames using rivets into the metal rails.

9.2.5 Structural expansion joints must be applied to the sub-framing and cladding in the identical position and to the same extent in accordance with the building design.

9.2.6 Each product requires two fixed points in accordance with the Certificate holder's instructions, using either SFS AP15 aluminium blind rivets in pre-drilled 9.5 mm diameter holes or SFS TW-S-D12-4.8 x 38 screws fixings with 5.5 mm pre-drilled holes.

9.2.7 All battens at vertical joints and intermediate battens must be fully covered by EPDM backing strips which are stapled to the battens. The strips should be used as a single piece top to bottom or lapped with a 40 mm overlap.

9.2.8 It is essential that the products are installed and maintained in accordance with the conditions set out in this Certificate. The fixing of rainwater goods, satellite dishes, clothes lines, hanging baskets and similar items is outside the scope of this Certificate. In all cases the Certificate holder's advice must be sought, but such advice is outside the scope of this Certificate.

9.3 Workmanship

Practicability of installation was assessed, on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the products must be carried out by installers who have been trained and approved by the Certificate holder.

9.4 Maintenance and repair

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

9.4.2 The following requirements apply in order to satisfy the performance assessed in this Certificate:

9.4.2.1 Annual maintenance inspections of the product surface, ventilation gaps, joints and fixings must be carried out to ensure they are clear and in good state. The inspection must also detect any need for repair of damage, that will prolong the life of the cladding.

9.4.2.2 For normal soiling, the surface of the products can be cleaned with cold or lukewarm water mixed with a water-based detergent applied with a suitable cleaning pad or sponge. For more difficult soiling, the Certificate holder's advice should be sought, but such advice is outside the scope of this Certificate.

9.4.2.3 Any damaged panels must be replaced as soon as possible.

10 Manufacture

10.1 The production processes for the products 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 products are delivered to site shrink-wrapped on pallets, 30 products per pallet for the 8 mm thick panels and 20 products per pallet for the 12 mm thick panels. The total weight per pallet of both sizes is 1800 kg (including the pallet). Packaging bears the product identification, production date, manufacturer and EN Standard number. The BBA logo incorporating the number of this Certificate is printed on the reverse of the products.

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

11.2.2 The products must be lifted from the stack from both product ends. To prevent surface damage during handling, sheets must be lifted clear of the surface of the stack and not dragged across it.

11.2.3 The products must be stored flat in stacks (maximum 500 mm high) on firm, level ground, in a sheltered position and away from dampness and direct sunlight.

Supporting information in this Annex is relevant to the products 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 products in accordance with harmonised European Standard EN 12467 : 2012.

Management Systems Certification for production

The management systems of the manufacturers have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by TÜV SÜD Management Service GmbH (Certificates 12 100 40262/07 TMS and 12 100 40262/04 TMS).

Additional information on installation

Procedure

A.1 Based on a preliminary survey of the wall and architectural/structural design, a grid layout for the supporting frame is first prepared. Accurate grid positioning and installation of the supporting frame are essential.

A.2 If required, after the support system has been installed, the substrate wall can be covered with a rigid insulation.

A.3 Expansion joints in the substrate wall must always coincide with vertical joints in the products. Similarly, products must not cover expansion joints in the substrate or horizontal joints in the vertical aluminium frame.

Bibliography

ASTM G 155 *Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials*

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

BS 8000-0 : 2023 + A1 : 2004 *Workmanship on construction sites — Design and installation of dry lining systems — Code of practice*

BS 8000-3 : 2020 *Workmanship on construction sites — Masonry — Code of practice*

BS 8000-5 : 1990 *Workmanship on construction sites — Code of practice for carpentry, joinery and general fixings*

BS 8417 : 2024 *Preservation of wood — Code of practice*

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

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

BS EN 1991-1-4 : 2005 + A1 : 2010 *Eurocode 1 — Actions on structures — General actions — Wind actions*

NA to BS EN 1991-1-4 : 2005 + A1 : 2010 UK National Annex to *Eurocode 1 — Actions on structures — General actions — Wind actions*

BS EN 1992-1-1 : 2004 + A1 : 2014 *Eurocode 2 — Design of concrete structures. General rules and rules for buildings, bridges and civil engineering structures*

NA + A2 :14 to BS EN 1992-1-1 : 2004 + A1 : 2014 UK National Annex to *Eurocode 2 — Design of concrete structures. General rules and rules for buildings*

BS EN 1992-1-2 : 2005 *Eurocode 2 — Design of concrete structures. Structural fire design*

NA to BS EN 1992-1-2 : 2005 UK National Annex to *Eurocode 2 — Design of concrete structures — Structural fire design*

BS EN 1993-1-1 : 2005 + A1 : 2014 *Eurocode 3 — Design of steel structures — General rules and rules for buildings*

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

BS EN 1993-1-2 : 2005 *Eurocode 3 — Design of steel structures. Part 1-2: Structural fire design*

NA to BS EN 1993-1-2 : 2005 UK National Annex to *Eurocode 3 — Design of steel structures. Part 1-2: Structural fire design*

BS EN 1993-1-3 : 2006 *Eurocode — Design of steel structures — Cold-formed members and sheeting*

NA to BS EN 1993-1-3 : 2006 UK National Annex to *Eurocode — Design of steel structures — Cold-formed members and sheeting*

BS EN 1995-1-1 : 2004 + A1 : 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 1995-1-2 : 2004 *Eurocode 5 — Design of timber structures — General — Structural fire design*

NA to BS EN 1995-1-2 : 2004 UK National Annex to *Eurocode 5 — Design of timber structures — General — Structural fire design*

BS EN 1996-1-1 : 2005 + A1 : 2012 *Eurocode 6 — Design of masonry structures — General rules for reinforced and unreinforced masonry structures*

NA to BS EN 1996-1-1 : 2005 + A1 : 2012 UK National Annex to *Eurocode 6 — Design of masonry structures — General rules for reinforced and unreinforced masonry structure*

BS EN 1996-1-2 : 2005 *Eurocode 6 — Design of masonry structures — General rules — Structural fire design*

NA to BS EN 1996-1-2 : 2005 UK National Annex to *Eurocode 6 — Design of masonry structures — General rules — Structural fire design*

BS EN 1996-2 : 2024 *Eurocode 6 — Design of masonry structures — Design considerations, selection of materials and execution of masonry*

NA to BS EN 1996-2 : 2006 UK National Annex to *Eurocode 6 — Design of masonry structures — Design considerations, selection of materials and execution of masonry*

BS EN 1996-3 : 2006 *Eurocode 6 — Design of masonry structures — Simplified calculation methods for unreinforced masonry structures*

NA + A1 : 2014 to BS EN 1996-3 : 2006 *UK National Annex to Eurocode 6 — Design of masonry structures — Simplified calculation methods for unreinforced masonry structures*

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

EN 13501-1 : 2018 + A1 : 2009 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

EAD 090062-00-0404 *Kits For External Wall Claddings Mechanically Fixed*

MOAT 33 : 1986 *Assessment of masonry coatings*

MOAT 36 : 1987 *Assessment of manufactured plastic floorings*

MOAT 48 : 1991 *Technical guide for the assessment of the durability of thin fibre reinforced cement products (without asbestos) for external use*

PD 6693-1 : 2019 *Recommendations for the design of timber structures to Eurocode 5 — Design of timber structures — General — Common rules and rules for building*

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
- 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
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

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.