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Agrément Certificate

24/7182

Product Sheet 1 Issue 1

FRAMEPRO W1

FOR USE IN TIMBER FRAME, STEEL FRAME, SIP PANEL AND MASONRY CONSTRUCTIONS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Framepro W1 for use in timber frame, steel frame, SIP panel and masonry constructions, in external walls with a cavity and a masonry outer leaf, weatherboarding or tile/slate cladding.

(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: 29 July 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 Framepro W1 for use in timber frame, steel frame, SIP panel and masonry constructions, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



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

Requirement:	B3(4)	Internal fire spread
Comment:		The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	B4(1)	External fire spread
Comment:		The product is restricted by this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The product will contribute to satisfying this Requirement. See section 3 of this Certificate.
Requirement:	C2(c)	Resistance to moisture
Comment:		The product can contribute to satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The product can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards – construction
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:	3.10	Precipitation
Comment:		The product will contribute to satisfying clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.8 ⁽¹⁾⁽²⁾ of this Standard. See section 3 of this Certificate.
Standard:	3.15	Condensation
Comment:		The product can contribute to satisfying this Standard, with reference to clauses 3.15.1 ⁽¹⁾⁽²⁾ , 3.15.5 ⁽¹⁾⁽²⁾ and 3.15.7 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	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.

Regulation:	12	Building standards – conversion
Comment:		Comments in relation to the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽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:	28(b)	Resistance to moisture and weather
Comment:		The product will contribute to a construction satisfying this Regulation. See section 3 of this Certificate.
Regulation:	29	Condensation
Comment:		The product can contribute to satisfying this Regulation. See section 3 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.
Regulation:	36(a)	External fire spread
Comment:		The product is restricted by this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, Framepro W1 for use in timber frame, steel frame, SIP panel and masonry constructions, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 6.1 *External masonry walls*, 6.2 *External timber framed walls*, 6.9 *Curtain walling and cladding* and 6.10 *Light steel framed walls and floors*.

Fulfilment of Requirements

The BBA has judged Framepro W1 for use in timber frame, steel frame, SIP panel and masonry constructions, to be satisfactory for use as described in this Certificate. The product has been assessed as a breather membrane for use in walls of timber frame (either factory or site applied), steel frame, SIP panel and masonry constructions behind lightweight cladding panels and masonry facades with a cavity and a masonry outer leaf, weatherboarding or tile/slate cladding.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment, Framepro W1 for use in timber frame, steel frame, SIP panel and masonry constructions is a three-layer polypropylene laminate composite.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

Characteristic (unit)	Value
Thickness (mm)	0.40
Mass per unit area (g·m ⁻²)	100
Roll length (m)	50
Roll width (m)	1.0
Colour	
upper face	Yellow with red print
lower face	White

Definitions for products and applications inspected

In the absence of other guidance, suitable timber frame constructions are defined as those designed and built in accordance with *NHBC Standards 2024*, Chapter 6.2.

Product assessment – key factors

The product was 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 Resistance to mechanical damage

1.1.1 Results of resistance to mechanical damage tests are given in Table 2.

Table 2 Results of mechanical damage tests

Product assessed	Assessment method	Requirement	Result
Framepro W1	Nail tear to EN 12310-1 : 2000 with modifications as per BS EN 13859-1 : 2014, Annex B Longitudinal direction Transverse direction	≥50 N	Pass

1.1.2 On the basis of data assessed, the products have adequate strength to resist the loads associated with construction and installation.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 When tested to STN EN ISO 11925-2 : 2021 and classified to EN 13501-1 : 2018, the product achieved a reaction to fire classification of Class E.

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

2.1.3 In England, the product, when used in pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, or on residential buildings more than 11 m in height or on other buildings more than 18 m in height. Restrictions apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.1.4 In Wales and Northern Ireland, the product, when used in roof pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, or on other buildings more than 18 m in height or, in some cases, on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.1.5 In Scotland, the use of the product is unrestricted in terms of height and proximity to a relevant boundary. However, restrictions on the overall construction may apply, depending on the reaction to fire classification achieved by the complete system, which must be established on a case-by-case basis.

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

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 3.

Product assessed	Assessment method	Requirement	Result
Framepro W1	Water resistance to STN EN 1928 : 2001 with modifications as per BS EN 13859-1 : 2014, Annex A	No leakage	Pass

3.1.2 On the basis of data assessed, the product is Class W1 in accordance with BS EN 13859-2 : 2014 and will resist liquid water penetration and wind-blown snow and will protect the sheathing and frame from external moisture.

3.1.3 The product satisfies the requirement for a Class W1 material in accordance with BS EN 13859-2 : 2014 and the NHBC requirement given in *NHBC Standards 2024*, Chapter 6.2, for use in very severe conditions⁽¹⁾.

(1) Very severe conditions are defined in the *NHBC Standards 2024*, Chapter 6.1.6 (see Exposure Zones map, showing categories of exposure to wind-driven rain).

3.1.4 The products resist penetration of liquid water and consequently can be used as temporary weather protection during construction, prior to the completion of external brickwork or claddings. The period of such use must, however, be kept to a minimum. Advice must be sought from the Certificate holder, but such advice is outside the scope of this Certificate.

3.2 Condensation

3.2.1 Results of water vapour resistance tests are given in Table 4.

Product assessed	Assessment method	Requirement	Result ⁽¹⁾
Framepro W1	Water vapour transmission properties to STN EN ISO 12572 : 2003	Value achieved (s_d)	0.008 m

(1) Water vapour resistance may be taken as 5 x s_d value.

3.2.2 A condensation risk analysis was carried out based on the result given in Table 4 and satisfactory conclusions were drawn.

3.2.3 The product's water vapour resistance is less than or equal to 0.6 MN·s·g⁻¹, and it is classified as a breather membrane in accordance with BS 5250 : 2021. They will, therefore, contribute towards minimising the risk of interstitial condensation in walls designed and constructed in accordance with BS 5250 : 2021.

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

The product comprises polypropylene, which can be recycled.

8 Durability

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

8.2 Specific test data were assessed as given in Table 5.

Table 5 Results of durability tests

Product assessed	Assessment method	Requirement	Result
Framepro W1	Dimensional stability to STN EN 1107-2 : 2002 Longitudinal direction Transverse direction	2%	Pass
			Pass
Framepro W1	Tensile strength to STN EN 12311-1 : 2002 with modifications as per BS EN 13859-1 : 2014 Annex A Control – Longitudinal direction Transverse direction	Declared values 250 (± 30%) N·(50 mm) ⁻¹ 150 (± 30%) N·(50 mm) ⁻¹	Pass
			Pass
Framepro W1	Elongation to STN EN 12311-1 : 2002 with modifications as per BS EN 13859-1 : 2014 Annex A Control – Longitudinal direction Transverse direction	Declared values 70 (± 30%) 110 (± 30%)	Pass
			Pass
Framepro W1	Tensile strength to STN EN 12311-1 : 2002 with modifications as per BS EN 13859-1 : 2014 Annex A - 24h in water Longitudinal direction Transverse direction	Change < 30%	Pass
			Pass
Framepro W1	Elongation to STN EN 12311-1 : 2002 with modifications as per BS EN 13859-1 : 2014 Annex A - 24h in water Longitudinal direction Transverse direction	Value achieved	48%
			60%
Framepro W1	Tensile strength to STN EN 12311-1 : 2002 with modifications as per BS EN 13859-1 : 2014 Annex A and Annex C Longitudinal direction Transverse direction	Change < 30%	Pass
			Pass
Framepro W1	Elongation to STN EN 12311-1 : 2002 with modifications as per BS EN 13859-1 : 2014 Annex A and Annex C Longitudinal direction Transverse direction	Declared values 50 (± 20%) 90 (± 20%)	Pass
			Pass
Framepro W1	Resistance to water penetration to STN EN 1928 : 2001 with modifications as per BS EN 13859-1 : 2014 Annex A and Annex C	No leakage	Pass
Framepro W1	Flexibility at low temperature to STN EN 1109 : 2002	Value achieved	-40°C

8.3 Service life

8.3.1 Under normal service conditions, the product will have a life equivalent to the structure in which it is incorporated, provided it is not exposed to sunlight for long periods, and it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

8.3.2 The period of exposure of the product prior to installation of the external cladding must be kept to a minimum. Advice should be sought from the Certificate holder, but such advice is outside the scope of this Certificate.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

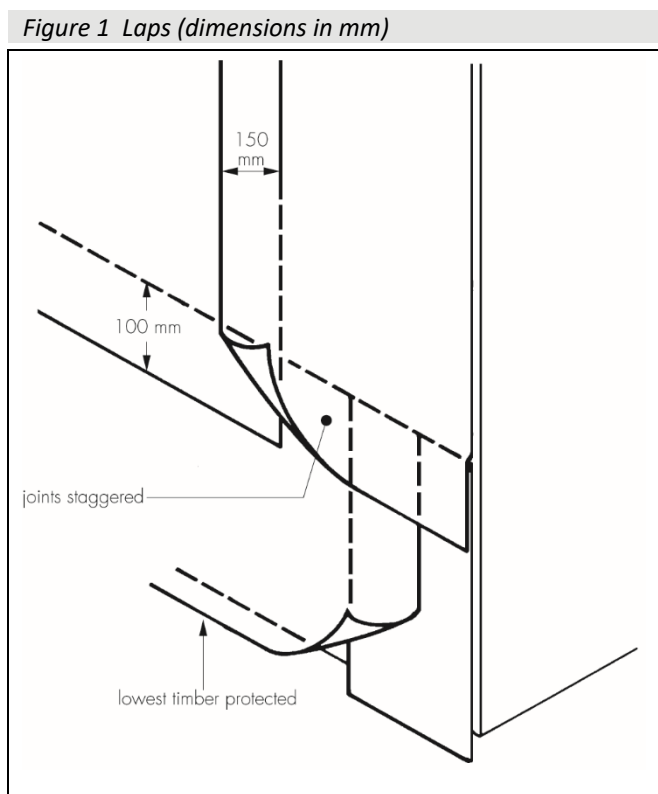
9.1 Installation

9.1.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.1.2 The product must be installed in accordance with the Certificate holder's instructions, the provisions of this Certificate and the recommendations given in *NHBC Standards 2024*, Chapter 6.2, where appropriate. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.2.3 The product must be fixed in such a way as to shed water away from the sheathing, and below the lowest timber. Upper layers must be lapped over lower layers.

9.2.4 Horizontal laps must be at least 100 mm and vertical laps 150 mm. Vertical laps must be staggered wherever possible (see Figure 1).



9.2.5 The product must be secured at regular intervals with nails and staples to prevent damage by wind.

9.2.6 Nails must be of galvanized or sherardized mild steel, austenitic stainless steel, phosphor bronze or silicon bronze, and staples must be of austenitic stainless steel.

9.2.7 It is essential that the positions of studs are marked to enable wall tie fixing.

9.2.8 It is essential that the lowest timbers in the wall are protected by the breather membrane.

9.2.9 The product can be damaged by high winds, careless handling or vandalism and must not be left exposed for longer than is necessary.

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

9.4 Maintenance and repair

9.4.1 As the product is confined to the wall and has suitable durability, maintenance is not required.

9.4.2 Damage to the product must be repaired prior to the installation of the external walls or cladding, by laying another sheet over the damaged area and sealing correctly, ensuring water is shed away from the sheathing.

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 rolls are delivered to site individually wrapped in polythene with a label bearing the product name, mass per unit area and the BBA logo incorporating the number of this Certificate.

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

11.2.1 Rolls must be stored flat on a clean level surface, under cover and protected from sunlight.

ANNEX A – SUPPLEMENTARY INFORMATION

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 product in accordance with harmonised European Standard EN 13859-2 : 2014.

Additional information on installation

Condensation

A.1 The risk of condensation occurring within the wall of a timber-frame building will depend upon the properties and vapour resistance of other materials used in the construction, the internal and external conditions and the effectiveness of the internal vapour control layer.

A.2 Convective water vapour transfer into the wall construction can be reduced by installing a vapour control layer/air barrier behind the internal lining.

Bibliography

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

BS EN 13859-1 : 2014 *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for discontinuous roofing*

BS EN 13859-2 : 2014 *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for walls*

EN 12310-1 : 2000 *Flexible sheets for waterproofing — Determination of resistance to tearing (nail shank) — Bitumen sheets for roof waterproofing*

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

STN EN 1107-2 : 2002 *Flexible sheets for waterproofing — Determination of dimensional stability Plastic and rubber sheets for roof waterproofing*

STN EN 1109 : 2002 *Flexible sheets for waterproofing — Bitumen sheets for waterproofing — Determination of flexibility at low temperature*

STN EN 1928 : 2001 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of watertightness*

STN EN 12311-1 : 2002 *Flexible sheets for waterproofing — Determination of tensile properties — Bitumen sheets for roof waterproofing*

STN EN ISO 11925-2 : 2021 *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Single-flame source test*

STN EN ISO 12572 : 2003 *Hygrothermal performance of building materials and products — Determination of water vapour transmission properties — Cup method*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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