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Agrément Certificate 24/7239

Product Sheet 1 Issue 1

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PREFA COIL-COATED ALUMINIUM COIL AND SHEET

PREFA PREFALZ P10

This Agrément Certificate Product Sheet⁽¹⁾ relates to PREFA Prefalz P10, a coil-coated aluminium coil and sheet for use in its profiled form as fully supported external roofing and cladding or internal lining.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or nonregulatory 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: 23 August 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 PREFA Prefalz P10, 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: B2(1)

Comment:

Comment:

Internal fire spread (lining)

The product is unrestricted by this Requirement. See section 2 of this Certificate.

Requirement:

B3(2)

Internal fire spread (structure)

The product can contribute to satisfying this Requirement. See section 2 of this

Certificate.

Requirement: Comment:

B3(4)

Internal fire spread (structure)

The product can contribute to satisfying this Requirement. See section 2 of this

Certificate.

Requirement: B4(1)

Comment:

External fire spread

The product is unrestricted by this Requirement. See section 2 of this Certificate.

Requirement:

B4(2)

C2(b)

External fire spread

The product is unrestricted by this Requirement. See section 2 of this Certificate.

Requirement:

Comment:

Comment:

Resistance to moisture

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.

Regulation:

Comment:

7(2) Materials and workmanship

The product is unrestricted by this Regulation. See section 2 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:

8(1)(2)

Fitness and durability of materials and workmanship

Comment:

The use of the product may contribute to a construction satisfying this Regulation. See

sections 8 and 9 of this Certificate.

Regulation:

8(3)

Fitness and durability of materials and workmanship

Comment:

The product is unrestricted by this Regulation. See section 2 of this Certificate.

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Regulation: Standard: Comment:	9 1.1(a)(b)	Building standards – construction Structure The use of the product can contribute to a construction satisfying this Standard. See section 1 of this Certificate.
Standard: Standard: Comment:	2.1 2.2	Compartmentation Separation The product is unrestricted by these Standards with reference to clauses $2.1.12^{(2)}$, $2.1.15^{(2)}$, $2.2.4^{(2)}$, $2.2.5^{(2)}$, $2.2.6^{(1)}$, $2.2.7^{(1)}$, $2.2.8^{(1)}$ and $2.2.10^{(1)}$. See section 2 of this Certificate.
Standard: Comment:	2.3	Structural protection The product is unrestricted by this Standard, with reference to clause $2.3.2^{(1)(2)}$. See section 2 of this Certificate.
Standard: Comment:	2.4	Cavities The product can contribute to satisfying this Standard, with reference to clause $2.4.2^{(1)(2)}$. See section 2 of this Certificate.
Standard: Comment:	2.5	Internal linings The product is unrestricted by this Standard, with reference to clause $2.5.1^{(1)(2)}$. See section 2 of this Certificate.
Standard: Comment:	2.6	Spread to neighbouring buildings The product is unrestricted 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: Comment:	2.7	Spread on external walls The product is unrestricted by this Standard, with reference to clause $2.7.1^{(1)(2)}$. See section 2 of this Certificate.
Standard: Comment:	2.8	Spread from neighbouring buildings The product is unrestricted by this Standard, with reference to clause $2.8.1^{(1)(2)}$. See section 2 of this Certificate.
Standard: Comment:	3.10	Precipitation The product can contribute to satisfying this Standard, with reference to clauses $3.10.1^{(1)(2)}$, $3.10.4^{(1)(2)}$, $3.10.6^{(1)(2)}$ and $3.10.7^{(1)(2)}$. See section 3 of this Certificate.
Standard: Comment:	7.1(a)	Statement of sustainability 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: Comment:	12	Building standards - conversion Comments made in relation to the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause $0.12.1^{(1)(2)}$ and Schedule $6^{(1)(2)}$.
		(1) Technical Handbook (Domestic).(2) Technical Handbook (Non-Domestic).
15		

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 is unrestricted by this Regulation. See section 2 of this Certificate.

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Regulation: Comment:	28(b)	Resistance to moisture and weather The product can contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation: Comment:	30	Stability The product can contribute to satisfying this Regulation. See Section 1 of this Certificate.
Regulation: Comment:	34(a)(b)	Internal fire spread — Linings The product is unrestricted by this Regulation. See section 2 of this Certificate.
Regulation: Comment:	35(2)	Internal fire spread — Structure The product is unrestricted by this Regulation. See section 2 of this Certificate.
Regulation: Comment:	35(4)	Internal fire spread — Structure The product may contribute to satisfying this Regulation. See section 2 of this Certificate.
Regulation: Comment:	36(a)	External fire spread The product is unrestricted by this Regulation. See section 2 of this Certificate.
Regulation: Comment:	36(b)	External fire spread The product is unrestricted by this Regulation. See section 2 of this Certificate.

Fulfilment of Requirements

The BBA has judged PREFA Prefalz P10 to be satisfactory for use as described in this Certificate. The product has been assessed as fully supported external roofing and cladding or internal lining, in its profiled form. The product may also be used as plain sheet for such purposes as small infill panels (provided these are sufficiently robust and properly secured). It may also be brake-pressed into the associated flashings and fittings.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. PREFA Prefalz P10 consists of an aluminium alloy coil to BS EN 573-3: 2019, with a primer and polyester coil coated finish.

The product has the nominal characteristics given in Table 1.

Characteristic	Value	
Total coating thickness		
- outer face	20-40 μm	
- inner face	3-5 μm	
Colour ⁽¹⁾	Brown, anthracite, black, brick red, oxide red, moss green, light grey, zinc grey,	
	Prefa white, nut brown, pure white, dark grey, stone grey, patina green.	
Width	500, 650, 1000 mm ⁽²⁾	
Thickness	0.7	

⁽¹⁾ Coils can be supplied stucco-embossed.

(2) Other widths are available.

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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 impact

1.1.1 Results of resistance to impact test is given in Table 2.

Table 2 Resistance to imp	pact		
Product assessed	Assessment method	Requirement	Result
PREFA Prefalz P10	Impact resistance to BS EN ISO 6272-1 : 2011 (mass 1000 g, height 1000 mm)	No significant cracking, chipping or losing adhesion of the coating	Pass
	Chipping resistance to BS AU 148-15: 1969	Value achieved	2

- 1.1.2 On the basis of data assessed, the coating may be damaged by scratching or abrasion and the product is suitable for use where there is little likelihood of significant damage occurring.
- 1.1.3 The impact resistance of the product is determined by the impact resistance of the aluminium on which it is based. No adhesion failure of the coating will occur, although hairline cracks may occur in areas of high stress.

1.2 Strength and stability

1.2.1 Results of strength and stability tests are given in Table 3.

Table 3 Strength and	l stability		
Product assessed	Assessment method	Requirement	Result
PREFA Prefalz P10	Resistance to cracking on bending to	The minimum bending radius	0T bend
	BS EN 13523-7 : 2014	without cracking or loss of adhesion	through 180°
	Cross-cut adhesion to	Value achieved	Class 0
	BS EN ISO 2409 : 2020		

1.2.2 On the basis of data assessed, the product may be worked by conventional techniques including brake-pressing, roll-forming, bending, drilling and punching.

2 Safety in case of fire

- 2.1 Reaction to fire
- 2.1.1 The product achieved the reaction to fire classifications given in Table 4

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Table 4 Reaction to fire classifications		
Product	Method/report reference (1)	Classification
PREFA Prefalz P10	EN 13501-1 : 2018	A1
Reverse surface facing	Magistratsabteilung 39	A1
into a cavity	report No MA 39 – 24-07250	

⁽¹⁾ Copies available from the Certificate holder on request.

- 2.1.2 On the basis of data assessed, the product is unrestricted in terms of building height and proximity to a relevant boundary.
- 2.1.3 When used as an internal lining, the product is similarly unrestricted.
- 2.1.4 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 (which must not impede ventilation and drainage pathways), service penetrations and combustibility limitations for other materials and components used in the overall construction.

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.

2.3 External fire spread

- 2.3.1 The product, in isolation, can be classified as $B_{ROOF}(t4)$ without the need for further testing in accordance with BS EN 14782 : 2006 or BS EN 14783 : 2013 and therefore, it is unrestricted in terms of proximity to a relevant boundary.
- 2.3.2 This performance can be affected by other components of the roof, such as underlays and insulations. These specifications/constructions must therefore be evaluated by reference to the requirements of the documents supporting the relevant national Building Regulations and any consequent restrictions imposed by those documents, on a case-by-case basis.

3 Hygiene, health and the environment

Not applicable.

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

Data were assessed for the following characteristics.

7.1 Environmental information

The product contains aluminium, which can be recycled.

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8 Durability

- 8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in this product were assessed.
- 8.2 Specific test data were assessed as shown in Table 5.

Table 5 Durability			
Product assessed	Assessment method	Requirement	Result
PREFA Prefalz P10	Resistance to sulfur dioxide to	No significant blistering,	Pass
	BS EN ISO 3231 : 1998	deterioration, loss of adhesion,	
	(10 cycles)	rust staining, change of colour or	
		embrittlement	
PREFA Prefalz P10	Resistance to salt spray to	No significant blistering,	Pass
	BS EN ISO 9227 : 2017	deterioration, loss of adhesion,	
	after 1000 hour of exposure	rust staining, change of colour or	
		embrittlement	
PREFA Prefalz P10	Resistance to water immersion to	No significant blistering,	Pass
	BS EN 13523-9 : 2014	deterioration, loss of adhesion,	
	after a period of 28 days	rust staining, change of colour or	
		embrittlement	
PREFA Prefalz P10	Colour stability to BS EN 13523-3: 2021	No significant change of colour or	Pass
All colours	following exposure to UVB – 4 hours at	embrittlement	
	60°C / 4 hours condensation at 50°C		
	2008 hours total		
PREFA Prefalz P10	Cross-cut adhesion to	Value achieved	Class 0
	BS EN ISO 2409 : 2020 following		
	exposure to UVB-4 hours at 50°C/4		
	hours condensation at 50°C 2000 hours		
	total		
PREFA Prefalz P10	Resistance to staining to	No sign of effect on coating film	Pass
	BS EN ISO 2812-4 : 2017		
PREFA Prefalz P10	Abrasion resistance to	Value achieved	0.07 g
	BS EN ISO 7784-2 : 2016		
	(500 g weight)		
PREFA Prefalz P10	Scratch resistance to	Value achieved	1700 g
	BS EN ISO 1518-1 : 2023		

^{8.2.1} On the basis of data assessed, the product is resistant to all normal atmospheric corrosive conditions (including coastal and industrial) and will withstand considerable distortion of the metal without losing adhesion between the coating and the substrate.

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8.3 Service life

- 8.3.1 Under normal service conditions, the product will perform as roofing, cladding or internal lining for a period in excess of 40 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.
- 8.3.2 The performance of the coating will depend upon the coating specification, its environment, location, aspect face and use (ie roofing and cladding). It will retain a good appearance for at least 15 years in non-corrosive environments, or for at least 10 years in coastal or severe industrial environments.

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 satisfy the performance assessed in this Certificate.
- 9.1.2 The profiled product, when incorporated into a cladding or roofing system designed and installed in accordance with conventional good practice and this Certificate, and installed by an experienced and competent individual, can adequately resist wind loads likely to be encountered in the UK.
- 9.1.3 The profiled product, when incorporated into a roofing or cladding system designed and installed in accordance with conventional good practice and this Certificate, can adequately resist the passage of moisture.
- 9.1.4 If the building has an exposed eaves detail, and is in an aggressive environment, the reverse side must have the same specification as the face side.

9.2 Installation

- 9.2.1 Installation of PREFA Prefalz P10 must be designed and carried with the relevant parts of:
- BS 5250: 2021
 BS 5427-1: 2016
 BS 507: 2019
 CP 143-15-1973
- FTMRC— UK Guide to Good Practice in Fully Supported Metal Roofing and Cladding
- 9.2.2 The metallic coatings are directional. To avoid contrast it is important to ensure that all sheets are fixed in the same (machine) direction and not inverted. Each elevation must be clad with material from the same batch.
- 9.2.3 The product may be worked by conventional techniques including brake-pressing, roll-forming, bending, drilling and punching. It is essential that the correct tools, in good condition, are used to prevent any damage to the coating, and that any swarf is removed.
- 9.2.4 Some care is necessary when handling the product to prevent damage to the coating.

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 contractor, experienced with this type of product.

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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. The following requirements apply in order to satisfy the performance assessed in this Certificate.
- 9.4.2 In some areas (eg coastal and industrial areas, and where cladding is sheltered directly beneath a soffit), it may be necessary to clean the installation periodically, both to restore its appearance and to remove potentially corrosive deposits. This can be done by hosing with water, using a neutral detergent.
- 9.4.3 Regular maintenance inspections must be carried out to ensure that rainwater goods are present and in good order, that flashings are secure and that fixings are present and secure.

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 product is formed into profiled sheets and flashings by specialist forming companies, either on or off site. Where profiled sheet is to be delivered to site on trailers for unloading by crane, the site must have adequate access and a suitable surface for this traffic.
- 11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:
- 11.2.1 During transport, the edges and corners of the sheets must be protected against damage and the sheets must be restrained to prevent abrasion.
- 11.2.2 On site, sheets must be stored on a firm, dry base, in an upright position, away from the possibility of damage, and covered to prevent the ingress of water. They must be stored as close as possible to the building where they are to be installed and must be handled in accordance with the Manual Handling Operations Regulations 1992 (as amended).
- 11.2.3 When required for installation, the sheets must be lifted from the stack rather than dragged across it.

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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.

<u>Construction (Design and Management) Regulations 2015</u> 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 14783 : 2013.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of ISO 9001: 2015 by Quality Austria (Certificate AT.01160/0).

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Bibliography

BS EN 507 : 2019 Roofing and cladding products from metal sheet – Specification for fully supported products of aluminium sheet

BS 5250: 2021 Code of practice for control of condensation in buildings

BS 5427-1:2016+A1:2017 Code of practice for the use of profiled sheet for roof and wall cladding on buildings — Design

BS AU 148-15: 1969 Methods of test for motor vehicle paints — Part 15: Resistance to chipping

BS EN 573-3 : 2019 + A1 : 2022 Aluminium and aluminium alloys — Chemical composition and form of wrought products — Chemical composition and form of products

BS EN 13523-3 : 2021 $\it Coil\ coated\ metals-Test\ methods-Colour\ difference\ and\ metamerism-Instrumental\ comparison$

BS EN 13523-7 : 2014 Coil coated metals — Test methods — Resistance to cracking on bending (T-bend test)
BS EN 13523-9 : 2014 Coil coated metals — Test methods — Part 9: Resistance to water immersion

BS EN 14782 : 2006 Self-supporting metal sheet for roofing, external cladding and internal lining — Product specification and requirements

BS EN 14783 : 2013 Fully supported metal sheet and strip for roofing, external cladding and internal lining — Product specification and requirements

BS EN ISO 1518-1: 2023 Paints and varnishes — Determination of scratch resistance — Constant-loading method

BS EN ISO 2409: 2020 Paints and varnishes — Cross-cut test

BS EN ISO 2812-4 : 2017 Paints and varnished — Determination of resistance to liquids — Part 4: spotting methods. Method A — Horizontal test panel

BS EN ISO 3231 : 1998 Paints and varnishes — Determination of resistance to humid atmospheres containing sulfur dioxide

BS EN ISO 6272-1: 2011 Paint and Varnishes — Rapid deformation (impact resistance test)

BS EN ISO 7784-2 : 2016 Paints and varnishes — Determination of resistance to abrasion — Method with abrasive rubber wheels and rotating test specimen

BS EN ISO 9227: 2017 Corrosion tests in artificial atmospheres – Salt spray tests

 ${\tt EN~ISO~9001:2015~\it Quality~management~\it systems-Requirements}$

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

CP 143 -15: 1973 Code of Practice for Sheetroof and wall coverings

FTMRC— UK Guide to Good Practice in Fully Supported Metal Roofing and Cladding 3rd Edition.

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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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