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Agrément Certificate 08/4603

Product Sheet 1 Issue 5

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TAPCOSLATE ROOFING TILES

TAPCOSLATE CLASSIC

This Agrément Certificate Product Sheet⁽¹⁾ relates to TapcoSlate Classic, a polypropylene compound-moulded roof tile, for use as a weatherproof finish on pitched timber roofs with a rafter pitch of 12° and above

(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 Fifth issue: 14 June 2024
Originally certified on 22 December 2008

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 $\dot{ au}$ 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 TapcoSlate Classic, 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: B4(1) External fire spread

Comment: The product is restricted by this Requirement. See section 2 of this Certificate.

Requirement: B4(2) External fire spread

Comment: A roof incorporating the product may be restricted by this Requirement. See section 2 of

this Certificate.

Requirement: C2(b) Resistance to moisture

Comment: A roof incorporating the product will satisfy 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: 7(2) Materials and workmanship

Comment: The product is restricted 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 can contribute to a roof 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 restricted by this Regulation. See section 2 of this Certificate.

Regulation: 9 Building standards – construction

Standard: 2.6 Spread to neighbouring buildings

Comment: The product is restricted by this Standard in some circumstances, 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 walls

Comment: The product is restricted by this Standard, with reference to clause 2.7.1⁽¹⁾⁽²⁾. See section

2 of this Certificate

Standard: 2.8 Spread from neighbouring buildings

Comment: A roof incorporating the product may be restricted under this Standard, with reference

to clause 2.8.1⁽¹⁾⁽²⁾. See section 2 of this Certificate.

Standard: 3.10 Precipitation

Comment: The product will contribute to a roof satisfying this Standard, with reference to clauses

 $3.10.1^{(1)(2)}$ and $3.10.8^{(1)(2)}$. See section 3 of this Certificate.

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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: 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).



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 restricted by this Regulation. See section 2 of this Certificate.

Regulation: 28(b) Resistance to moisture and weather

Comment: The product can contribute to satisfying this Regulation in some circumstances. See

section 3 of this Certificate.

Regulation: 36(a) External fire spread

Comment: The product is restricted by this Regulation. See section 2 of this Certificate.

Regulation: 36(b) External fire spread

Comment: A roof incorporating the product may be restricted by this Regulation. See section 2 of

this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, TapcoSlate Classic, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 7.2 *Pitched roofs*.

Fulfilment of Requirements

The BBA has judged TapcoSlate Classic to be satisfactory for use as described in this Certificate. The product has been assessed as a weatherproof finish on pitched timber roofs (felt-batten or fully boarded roofs) with a rafter pitch of 12° and over.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. TapcoSlate Classic is a polypropylene compound-moulded roof tile. The product has the nominal characteristics given in Table 1:

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Table 1 Nominal characteristics of TapcoSlate Classic	
Characteristic (unit)	Value
Length (mm)	444
Width (mm)	292
Thickness (mm)	Top edge 7, bottom edge 3.5
Installed weight (kg·m ⁻²)	13.5
Finishes	Six embossed stone-like
Colours	Grey ⁽¹⁾

⁽¹⁾ Other colours available but are outside the scope of the Certificate.

The product is supplied with marked areas, for nail holes for fixing.

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 Mechanical properties

1.1.1 The results of a bending moment test are given in Table 2.

Table 2 Bending moment			
Product assessed	Assessment method	Requirement	Result
TapcoSlate	BS EN 492 : 2012 - Control	Value achieved	96 Nm·m ⁻¹

- 1.1.2 On the basis of data assessed, the product has adequate resistance to damage during site handling and installation using conventional roofing methods.
- 1.1.3 The product has satisfactory resistance to the wind and snow loads likely to be encountered in service. In situations where high local loads may occur, the designer must seek the advice of the Certificate holder, but such advice is outside the scope of this Certificate. Consideration must also be given to the guidance contained in BRE Digest 439: 1999.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 External fire spread

2.1.1 The product has been tested for external fire exposure and achieved the classification given in Table 3 for a pitch of 45°.

Table 3 External Fire test results			
System assessed	Assessment method	Requirement	Result
System comprising the following components:	BS 476-3 : 2004	Value achieved	EXT.S.AC ⁽¹⁾
 50 x 50 mm wooden frame, with⁽²⁾ 			
 30 x 30 mm wooden battens⁽²⁾ 			
 1.1 mm thick black roofing underlay⁽²⁾ 			
 TapcoSlate (Grey colour) 			
System comprising the following components:	BS 476-3 : 2004	Value achieved	EXT.S.AA ⁽³⁾
• 18 mm OSB board ⁽²⁾			
TapcoSlate (Grev colour)			

- (1) Test report reference 158117, issued by Warringtonfire, available from the Certificate holder on request.
- (2) These components are outside the scope of the Certificate.
- (3) Test report reference 153420, issued by Warringtonfire, available from the Certificate holder on request.

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2.1.2 This classification may not be achieved by other colours or constructions or pitches and can also be affected by other components of the roof, eg insulation materials, substrates/decking and membranes. These constructions must therefore be evaluated by reference to the requirements of the documents supporting the national Building Regulations and any consequent restrictions imposed by those documents, on a case-by-case basis.

2.2 Reaction to fire

- 2.2.1 The Certificate holder has not declared a reaction to fire classification for the product to BS EN 13501-1: 2018.
- 2.2.2 In England, the product must not be used on a roof pitch of 70° or more on buildings with a storey 18 m or more in height or on residential buildings more than 11 m in height or less than 1 m from a relevant boundary. Restrictions also apply on some assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.
- 2.2.3 In Wales, the product must not be used on a roof pitch of 70° or more on buildings with a storey 18 m or more in height or less than 1 m from a relevant boundary. Restrictions also apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.
- 2.2.4 In Scotland and Northern Ireland, the product does not meet the minimum performance requirements specified in the relevant documents supporting the national Building Regulations. Specifiers must seek advice from the relevant Building Control Authority.
- 2.2.5 Where the product is to be carried over compartment walls, designers must ensure that the roof/wall junction detail provides sufficient resistance to fire penetrating into the neighbouring compartment.
- 2.2.6 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 Weathertighness

3.1.1 Results of weathertightness tests are given in Table 4.

Table 4 Weathertightnes	es :		
Product assessed	Assessment method	Requirement	Result
TapcoSlate	Resistance to driving rain to		
	prEN 15601 : 2006, tested at 12°		
	Sub test B	> 30 Pa	Pass
	Sub test D	No leakage	Pass
TapcoSlate	Water absorption to MOAT 48: 1991	Value achieved	0.02 %

- 3.1.2 On the basis of data assessed, the product when used in conjunction with a suitable tile underlay or sarking has adequate resistance to the ingress of wind-driven rain or snow when installed on a roof with a minimum rafter pitch of 12°.
- 3.1.3 When fixed in accordance with the Certificate holder's instructions, the product is resistant to the effects of wind uplift likely to be encountered in the UK. Where exposure conditions may be severe, consideration must be given to the recommendations outlined in BS 5534 : 2014.
- 3.1.4 Temporary curling of the product may occur during sudden rain showers and following periods of high temperatures. This observed effect is not permanent and should not affect the weathertightness of the roof.

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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 contains polypropylene, 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.
- 8.2 Specific test data were assessed as given in Table 5.

Table 5 Results of	durability tests		
Product assessed	Assessment method	Requirement	Result
TapcoSlate	Dimensional stability to a BBA Test Method	Value achieved	
	Length change		0.02%
	Width change		0.01%
TapcoSlate	Bending moment to BS EN 492 : 2004	R _L not less than 0.75	
	- exposure to water at 23°C for 28 days and		Pass
	for 56 days		
	 heat ageing at 80°C for 28 days and for 		Pass
	or 56 days		
	- UV ageing to BS EN ISO 4892-3 : 2000 for 2000 hrs		Pass
	- 100 freeze/thaw cycles to BS EN 492: 2004		Pass
	Clause 7.4.1		
TapcoSlate (Grey)	Colour stability to BS EN ISO 7724 -3: 1984	No significant colour change	Pass
	- UV ageing to BS EN ISO 4892-3 : 2016 for 2000 hrs		
TapcoSlate	Heat/rain cycling to	No visible cracks,	Pass
	BS EN 492 : 2012	delamination or other	
		defects in the slates that	
		would affect their	
		performance in use	

8.2.1 On the basis of data assessed, there may be some fading of colour over long exposure periods, but such fading will be consistent across any one elevation.

8.3 Service life

Under normal service conditions, the product will have a life of at least 20 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

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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 Roofs incorporating the product and subject to the national Building Regulations must be designed and constructed in accordance with the relevant recommendations of BS 5250: 2021, BS 5534: 2014, BS 8000-0: 2014 and BS 8000-6: 2023. The designer must select a construction appropriate to its location, paying due attention to design detailing, workmanship and materials to be used.
- 9.1.3 The roof construction must be adequate to resist the loadings detailed in BS EN 1991-1-1: 2002, BS EN 1991-1-3: 2003 and BS EN 1991-1-4: 2005, and their UK National Annexes. The roof construction must be in accordance with the relevant requirements of BS 5534: 2014.
- 9.1.4 It is essential that roofs are designed and constructed to incorporate the normal precautions to prevent moisture penetration and the formation of condensation (eg by adequate ventilation).
- 9.1.5 The roof space and batten space must be adequately ventilated in accordance with BS 5250: 2021.
- 9.1.6 Slight colour variations may exist between batches, and therefore tiles should be randomised on site to achieve a consistent appearance when installed.

9.2 <u>Installation</u>

- 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 and the relevant recommendations contained in BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023, using conventional tiling techniques.
- 9.2.3 Where the product is to be used on an existing roof structure, the recommendations contained in BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023 on re-covering must be followed. Consideration must also be given to the advice contained in BRE Defect Action Sheets DAS 124 : 1988 and DAS 125 : 1988.
- 9.2.4 The tiles may be cut (for use at eaves and valleys) with a sharp knife and a straight edge or a circular saw. A chalk line to determine a straight edge for cutting is recommended for use with valley and hip details.
- 9.2.5 Nails can be driven through the product without the need for pre-drilling or punching.
- 9.2.6 Tiles must be laid weather-face up, with the first row of tiles (eaves course) fixed using two galvanized or stainless steel nails or screws. The eaves course must overhang a maximum of 50 mm at the eaves.
- 9.2.7 The tiles weigh considerably less than conventional roofing materials and must be securely attached to the structure to prevent wind uplift under adverse conditions.
- 9.2.8 Care is required to ensure that nails or screws are not overdriven. Nails must be tapped rather than driven home.
- 9.2.9 Each course must be laid broken bonded with tails aligned. Spacer tabs on the product ensure that the butt joints are left slightly open with a gap of approximately 9 mm.

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- 9.2.10 Each tile must be seated down correctly, adjacent to the previous one and with the course below. Butt joints between tiles must be properly constructed to provide the required degree of weathertightness and dimensional accuracy.
- 9.2.11 Ridge and hip details must be completed using preformed tiles by following the Certificate holder's instructions.
- 9.2.12 The product must be installed at 7°C or above.

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 competent roofers/tilers 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 The following requirements apply in order to satisfy the performance assessed in this Certificate:
- 9.4.2.1 Roofs covered with the product must be visually inspected twice a year to ensure continued performance, as is good practice with all roofs. Any damaged product must be replaced.
- 9.4.2.2 Care is required when carrying out maintenance and repair work on tiled roofs, and the Certificate holder's instructions and the recommendations contained in BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023 must be followed.

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 on pallets bearing the product name, date of manufacture and the BBA logo incorporating the number of this Certificate.
- 11.2 A complete pallet comprises 64 bundles of 25 tiles each and weighs approximately 1040 kg. Pallets are protected by a polyester strapped cardboard hood and shrink-wrapped polythene cover.

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- 11.3 Delivery and site handling must be performed in accordance with the Certificate holder's instructions and this Certificate, including:
- 11.3.1 The product must be stored on a level base in a dry, protected area away from the possibility of damage. The product must not be stacked on double pallets.

11.3.2 The product must be stored in original packing while onsite.

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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.

Bibliography

BS 476-3 : 2004 Fire tests on building materials and structures — Classification and method of test for external fire exposure to roofs

BS 5250: 2021 Management of moisture in buildings. Code of practice

BS 5534: 2014 + A2: 2018 Slating and tiling for pitched roofs and vertical cladding — Code of practice

 ${\tt BS~8000-0:2014~+A1:2024~Work manship~on~construction~sites-Introduction~and~general~principles}$

BS 8000-6: 2023 Workmanship on construction sites. Slating and tiling of roofs and walls

BS EN 492: 2004 Fibre cement slates and fittings. Product specification and test methods

BS EN 492: 2012 +A2: 2018 Fibre-cement slates and fittings — Product specification and test methods

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

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

EN 1991-1-3: 2003 + A1: 2015 Eurocode 1 — Actions on structures — General actions — Snow loads

NA + A2:18 to BS EN 1991-1-3:2003 + A1:2015 UK National Annex to Eurocode 1 — Actions on structures — General actions — Snow loads

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 ISO 4892-3: 2000 Plastics — Methods of exposure to laboratory light sources — Fluorescent UV lamps

BS EN ISO 4892-3: 2016 Plastics — Methods of exposure to laboratory light sources — Fluorescent UV lamps

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

BRE Defect Action Sheet DAS 124: 1988 Pitched roofs: Renovation of older type timber roofs — re-tiling or re-slating

BRE Defect Action Sheet DAS 125: 1988 Pitched roofs: Re-tiling or re-slating of older type timber roofs

BRE Digest 439: 1999 Roof loads due to local drifting of snow

ISO 7724-3: 1984 Paints and varnishes — Colorimetry — Part 3: Calculation of colour differences

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

prEN 15601 : 2006 Hygrothermal performance of buildings — Resistance to wind-driven rain of roof coverings with discontinuously laid small elements — Test method

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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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