



Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020

UK Technical Assessment	UKTA-0836-22/6064 of 21/04/2022
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	TapcoSlate Classic
Product family to which the construction product belongs:	Roofing
Manufacturer:	Tapco Europe Limited Unit 32 Tokenspire Business Park Hull Road Woodmansey Beverley HU17 0TB
Manufacturing plant(s):	4057 South Oak Street Metamora Michigan 48455 USA
This UK Technical Assessment contains:	7 pages including 1 annex which form an integral part of the document
This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 on the basis of:	United Kingdom Assessment document (UKAD) no. 22006-00-0402 for <i>Roofing slates made of polypropylene, limestone, and fillers</i>

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1. Technical description of the product

TapcoSlate Classic are compression-moulded slates manufactured from a blend of recyclable polypropylene, limestone, fillers (including fire retardants) and pigments. Ridge-caps manufactured to the same formulation are also available for use with the slates.

The slates have the nominal characteristics of:

Dimensions (mm)	445 by 305
Nominal thickness (mm)	top edge 7, bottom edge 3.5
Average density ($\text{kg}\cdot\text{cm}^{-3}$)	1.32
Installed weight ($\text{kg}\cdot\text{m}^{-2}$)	13.5
Colours	Stone Black, Pewter Grey, Plum, Brick Red, Chestnut Brown, Mist Grey, Brandywine, Red Rock, Olive, Sage Green, Grey/Black blend, Evergreen, Ash Grey, Granite, and Graphite.
Finishes	Six embossed pattern finishes are available.

Slight colour variations may exist between batches and the product should be randomised on site to achieve a consistent appearance when installed.

The slates are marked with blind holes for installation.

2 Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

The slates are for use as a weatherproof finish to pitched roofs (see Figure 1).

Figure 1 Typical installation



The provisions made in this UK Technical Assessment are based on an assumed working life for the roof of 25 years. The indications given in the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Characteristic	Performance
Bending moment	See Annex A

3.2 Safety in case of fire (BWR 2)

Characteristic	Performance
External fire performance	See Annex A

3.3 Health, hygiene and the environment (BWR 3)

The manufacturer has made a declaration that the product does not contain any dangerous substances.

3.4 Safety and accessibility in use (BWR 4)

Characteristic	Performance
Dimensions	See Annex A
Density	See Annex A
Water absorption	See Annex A
Dimensional stability	See Annex A
Warm water immersion at ambient temperature	See Annex A
Warm water immersion at elevated temperature	See Annex A
Dry heat at elevated temperatures	See Annex A
Freeze/thaw cycling	See Annex A
UV exposure	See Annex A
Heat-rain cycling	See Annex A

3.5 Protection against noise (BWR 5)

Not relevant.

3.6 Energy economy and heat retention (BWR 6)

Not relevant.

3.7 Sustainable use of natural resources (BWR 7)

No performance assessed.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied

4.1 System of assessment and verification of constancy of performance

According to UKAD No.220006-00-0402 and Annex V of the Construction Products Regulation (Regulation (EU) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 3 applies.

Product	Intended use	Level or class	System
Roofing Slates	As roof coverings subject to external fire performance regulations	See BS EN 13501-5 F _{ROOF}	3 4
	As roof coverings subject to regulations on dangerous substances	–	3
	As roof coverings for all other uses	–	4

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable UKAD

Technical details necessary for the implementation of the Assessment and Verification of Constancy of Performance (AVCP) are laid down in the control document deposited at ETA-Danmark A/S.

5.1 UKCA marking for the product/ system must contain the following information:

- Identification number of the Approved Body
- Name/address of the manufacturer of the product/ system
- Marking with intention of clarification of intended use
- Date of marking
- UKTA number.

On behalf of the British Board of Agrément



Date of Issue: 21 April 2022

Hardy Giesler
Chief Executive



British Board of Agrément,
Bucknalls Lane,
Watford,
Hertfordshire
WD25 9BA

ANNEX A : CATEGORISATION OF LEVELS OF PERFORMANCE OF TAPCOSLATE CLASSIC

This annex applies to the TapcoSlate Classic described in the main body of the European Technical Assessment.

The product has the following characteristics as derived from results of tests:

Characteristic (units)	Value
Dimensions (mm):	
Length	444
Width	292
Thickness	3.7
Density (kg·cm ⁻³)	1.32
Water absorption (%)	1.32
Dimensional change (mm):	
longitudinal direction	+0.02
transverse direction	+0.01
Bending moment (Nm·m ⁻¹):	
Control	96
after 28 days warm water immersion at ambient temperature	98
after 56 days warm water immersion at ambient temperature	93
after 28 days warm water immersion at elevated temperature	104
after 56 days warm water immersion at elevated temperature	94
after 28 days exposure to dry heat at elevated temperature	104
after 56 days exposure to dry heat at elevated temperature	92
after 100 cycles of freeze/thaw	94
after 1000 hours UV exposure	102
after 2000 hours UV exposure	98
Heat/rain: 25 and 50 cycles	No visible damage
External fire performance	B _{ROOF} (t4) ⁽¹⁾

(1) The product achieved this classification in accordance with the UKAD under BS EN 13501-5: 2016 as part of the following systems:

- TapcoSlate Classic mechanically fixed on 18 mm OSB3 board tested at a slope angle of 45°
- TapcoSlate Classic mechanically fixed on a batten and rafter system with a layer of SBS TU-35 underlay, tested at a slope angle of 45°.



British Board of Agrément,
Bucknalls Lane,
Watford,
Hertfordshire
WD25 9BA