

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

TapcoSlate

Description of Product

This is an assessment of Tapco slates that are manufactured from a recyclable blend of limestone and polypropylene and are made to resemble a natural slate pattern.

Each slate measures 445mm in height and 295mm in width and has ridge caps that are 152mm by 457mm. Each slate and ridge cap weigh approx. 0.7 kgs each.

The TapcoSlate has a CE declaration of performance No. 120916-TAPDOE-365.22.33.



Key Factors Assessed

- Mechanical Resistance & Stability
- Safety in case of Fire
- Safety in Use
- Durability serviceability and identification

Validity

This certificate was first issued on 19th December 2017 and is valid until 19th December 2018
Issue Dated 19th December 2017

Scope of Registration

The tiles can be easily cut on site with a shape trades knife or circular saw and they carry a 40 year manufacturer's warranty. They also carry a BBA certificate No 08/4603 Product Sheet 1 and are approved for roof pitches of 14.5° and upwards on both felt & batten and fully boarded applications.

There are 5.5 ridge caps per linear metre and the laid weight is approx. 12kg per m² and the tile coverage is:

Roof Pitch: 14.5° to 25° **Gauge:** 152 mm **No. Tiles per m²:** 22

Roof Pitch: 25° to 27.5° **Gauge:** 165 mm **No. Tiles per m²:** 20

Roof Pitch: 27.5 to 30° **Gauge:** 178 mm **No. Tiles per m²:** 19

Roof Pitch: 30° to 90° **Gauge:** 191 mm **No. Tiles per m²:** 18

The slates should be fixed with a large 10mm diameter head, galvanised 1.2" (30mm) by 0.1" (2.5mm) steel nails or 1.2" (30mm) by 0.14" (3.5mm) outdoor Phillips bugle screws (using hammer/screwdriver or nail/screw-gun). A longer 3" (76mm) nail or outdoor Phillips bugle screw is required for fixing ridges and hips.

Caution should always be used to ensure against over/under penetration of the fastener. Do not over-drive the fastener. The fastener head should be contacting the slate within the centre of the nailing target circle. Improper fastening can compromise the roof system and voids the manufacturers' warranty.

The slates must be conditioned at a temperature no lower than 7°C for 24 hours prior to use. They can be installed at temperatures as low as 0°C but must only be hand fastened. Fastening by a nail gun should only be done in temperatures above 7°C.

The slates have been tested in accordance with BS 476 -3: 2004 and when mechanically fixed to an oriented strand board deck, achieve an EXT.SAA designation.

When installed on a tile batten with rafters they achieved an EXT.SAC designation. Therefore a roof incorporating the slates are designated either AA or AC and is consequently unrestricted by the relevant requirements of the national Building Regulations.

Fire test results are supported by Warrington test reports: No. 153420 and No. 158117.

The slates have been tested and have passed all requirements in accordance with Miami-Dade County Protocol TAS 100-95 – Test procedure for wind and wind driven rain resistance of discontinuous roof systems which tests roofing products up to wind speeds equivalent to 110 mph.

The slates have hail rating: Class IV and have been subjected to accelerated UV exposure testing and showed no fade or trace of cracking or splitting.

Slates have been tested with over 300 freeze/thaw cycles and showed no signs of damage or cracking.

For Scotland purposes:

In exceptionally high wind areas the product should be fixed to a solid substrate, such as sarking board, OSB or weather grade ply. The recommended OSB thickness is 18mm.

Conditions of Certificate

TapcoSlate have produced a concise fixing guide which should be closely followed at all times to ensure correct installation. If deemed necessary, further checks can be made direct with the manufacturer.

Nail fixing by pneumatic nail gun should not be carried out when the temperature falls below 7°C.

A correct roof ventilation system must be incorporated into the roof design as Tapco will not provide a warranty to an unvented roof and/or improperly vented roof system.

For Scotland purposes:

The products used as components of the system shall be manufactured and installed strictly in accordance with the manufacturer's instructions, in accordance with the certificate holder's instructions and fully in accordance with the accredited certification and supporting test reports.

The specifications and materials referred to have been assessed and approved in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 October 2017.

Where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this registered detail.

The materials specified shall not be changed without first gaining approval so to do. Failure to do so will invalidate the registered detail.

This Registered Detail should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 2003 enacted from 1 May 2005. It supports the site-specific building warrant submission required in every case.



LABC and LABSS consider that, TapcoSlate will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;

The Building Regulations 2010 (as amended) England & Wales

Regulation 7	Materials and workmanship
Note:	The products are acceptable.
AD B	Fire Safety
Note:	The products are acceptable.
AD C	Resistance to Moisture
Note:	The products are acceptable.



The Building Regulations 2010 (as amended) England

AD B	Fire Safety
Note:	The products are acceptable.



The Building Regulations 2010 (as amended) Wales

AD B	Fire Safety
Note:	The products are acceptable.



The Building (Scotland) Regulations 2004 (as amended)

Regulation 8	Durability, workmanship and fitness of materials
0.8.5:	Ways of establishing the fitness of materials
Note:	Installation should be in accordance with the manufacturers fixing guide using stainless steel nails.
Regulation 9	Building Standards applicable to construction
Note:	Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.
Mandatory	
Standard 2.8	Spread from neighbouring buildings
Note:	The products are acceptable provided it is constructed in accordance with the manufacturer's details.

Mandatory

Standard 3.10

Note:

Precipitation

The products are acceptable provided it is constructed in accordance with the manufacturer's details and by an accredited contractor.

The product has been subjected to wind driven rain testing under severe exposure by the BRE. Testing was carried out in accordance with requirements of prEN 15601 Tests B and D. Results demonstrate satisfactory performance.

Mandatory

Standard 3.15

Note:

Condensation

The products are acceptable provided it is constructed in accordance with the manufacturer's details and by an accredited contractor.

Mandatory

Standard 6.2

Note:

Building insulation envelope

The products will achieve the required U-value provided it is constructed in accordance with the manufacturer's details and by an accredited contractor.

Non-Regulatory Information



LABC Warranty

The use of the TapcoSlate has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to technical.services@labcwarranty.co.uk

Supporting Documentation

Tapco Declaration of performance: No. 120916-TAPDOE-365.22.33

Tapco Slate product brochure

BBA Certificate number 08/4603

European Technical Assessment Cert. No ETA16/0571

Warrington Fire Test Report No. 153420

Warrington Fire Test Report No. 158117

Tapco slate fixing guide November 2016

Tapco technical bulletin 4-07R Windload performance of slates

Tapco care and maintenance sheet

Tapco chemical compatibility of roofing products Class A and Class C

TapcoSlate Fixing Guide 2017 2nd Draft

Additional for Scotland purposes:

BRE Test Report - Wind Driven Rain Testing of Tapco Slates – Issue 2

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