



TAPCO SLATE

Strong, Versatile, Light, Recyclable



The Tapco Group has built a reputation as the leader in innovative exterior products, delivering more than forty years of superior quality, reliability and operational excellence.



The height of innovation

Tapco Slate is the next generation of premium roofing products. It's a perfect combination of the natural beauty found in slate along with the most technologically advanced methods and materials.

Multiple moulds are used to create Tapco Slate with different edges and surfaces, giving the look of authentic slate.

Strength and durability is achieved using an exclusive 100% recyclable blend of virgin resins and natural limestone that has been compression-moulded. Tapco Slate looks virtually identical to natural slate, yet it will not break or shatter and weighs 80% less than its natural counterpart.

Tapco Slate boasts the widest range of colour options in the industry allowing flexibility and creativity.

Tapco Slate's beauty, strength, durability and colour options open a whole new world of innovation.



Safeguarding the Environment

Tapco is 100% committed to ensuring the environment is protected through every element of the production process.



We practice low-level energy production methods and proudly recycle 95% of all waste material.



Tapco Slate is made from natural occurring limestone which is sourced only a short distance from the plant, cutting travel costs and minimizing harmful pollution.



Our mission at Tapco is to consider the environment in every element of the manufacturing process. We practise state-of-the-art energy-saving methods which have reduced the overall cost of running the plant.



We pride ourselves in being a very “Green” production company and endeavour to maintain and build upon these high standards of environmental awareness.

Form follows performance

Finally, nature and technology have come together to deliver a premium synthetic roofing slate. Compression, rather than injection moulding, creates a proprietary “camber effect” called Inflex™. This “camber effect” ensures a tight surface bond against wind and rain, eliminating the need for pre-bending. The special process used to make Tapco Slate also provides the ultimate protection against UV rays, hail and fire.



Built to take it...

Tapco Slate offers the professional contractor flexibility and versatility to create a traditional appearance using modern technology.

Firstly, we recreated the beauty of a natural product and moulded it to endure the harshest weather conditions.

Next, we designed Tapco Slate using innovative techniques and technology that maximize efficiency during installation.

Our exclusive ‘colour-through’ process ensures that colours stay consistent, eliminating the need for time consuming on site sorting.

Key Features

Fire Rating

Tapco Slates achieve an SAA Fire rating when used on a boarded roof and an SAC fire rating when used in conjunction with a manufacturers recommended breathable membrane on a battened roof.

Both Applications were tested to BS476 Part 3 standards.

Installation

Tapco Slates can be installed with hammer and nails, or pneumatic nail gun, and can be cut with normal hand or electrical saw.

Each slate has pre-marked nailing areas for correct fixing. The slates also feature overlap reference marks corresponding to the roof pitch, and horizontal spacers. These marking are specifically designed to ensure an accurate and fast installation.

Applications

The slates can be fixed to boarded and battened roofs, which are suitable for both refurbishment or new build. The lightweight characteristics of the slate, (12.35 kg per m²), eliminate the need for a heavy supporting roof structure.

Accessories

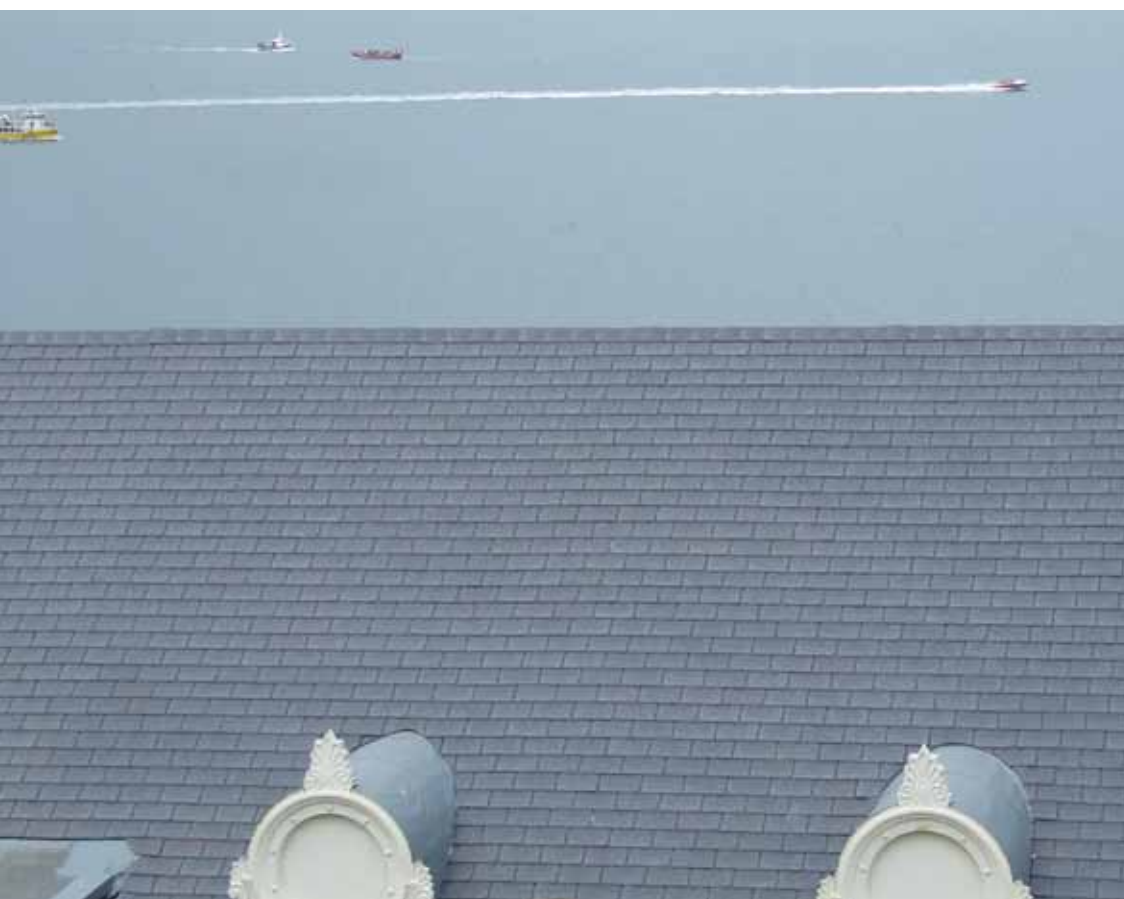
Ridge caps, dry verges, slate vents, ridgevents, end caps and a fire retardent membrane complement the Tapco Slate range.

Appearance

An exciting range of colours, six different moulds with random textures and edges offer an array of creative possibilities.

Performance

Tapco Slates are subject to stringent tests to ensure that the aesthetic qualities and overall performance last for years.



Colour Options

Tapco Slates are offered in the broadest colour palette in the industry - 4 Traditional UK Slate Colours, 7 Alternative Slate Colours and 3 blends. Custom colours are available, (subject to special enquiry) to match existing roof tiles or to create the colour you want.

The colours remain consistent from one order to the next. With no blending on the job site and no lot numbers to worry about.

Traditional UK Slate Colours



Alternative Slate Colours



Blends



What do these test results mean?

The fire rating for Tapco Slate is based upon the slates being installed on a standard boarded roof.

A fire-proof underlay is required if the slates are to be installed on a battened roof.

The Hail Rating (Class 4) proved that the slates were unaffected after long-term exposure to driving hail.

The Accelerated Ultra Violet test lasted for 9,500 + hours in the Xenon Arc Chamber.

The Wind Driven Rain/Wind Uplift test was carried out in Dade County USA where the slates were subjected to a load equivalent three times their weight. The slate did not crack, break or dislodge.

The Water Absorption tests proved that the tiles could be submerged in water for long periods of time with no signs of appreciable weight gain.

During the Temperature Cycling tests, the tiles were subjected to twenty periods of 24-hour cycles consisting of 16 hours in a controlled chamber at high temperatures (82°C), then 8 hours at a cool temperature (-40°C). No sign of cracking, curling, deformation or visible expansion was visible. There was also no sign of failure or distress at fastener locations and at the panel joints.

Further penetration tests were carried out where a 200 Pound (91 kg) load was imposed on the centre of the slate. No cracking or deformation of the slate occurred.

Performance Chart

Test	Results
Fire Rating	BS476 Part 3 Boarded Roof SAA Battened Roof SAC
Hail Rating	Class 4
Accelerated Ultra Violet Exposure	Slate exhibited virtually no fade and no trace of cracking or splitting.
Wind Driven Rain / Wind Uplift	Up to 110mph. No water infiltration through sheathing. No slates blew off, shattered or lifted.
Freeze-Thaw Cycle	No signs of damage or cracking after 300 cycles.
Water Absorption	No appreciable weight gain.
Water Permeation	Slate shown to be impermeable.
Temperature Cycling	No signs of cracking, curling, deformation, or visible expansion.
Product Certification BBA (British Board Of Agreement)	<p>Strength The products have adequate strength to resist the loads associated with the installation of the roof.</p> <p>Properties in relation to fire The products will enable a roof to be unrestricted under the Building Regulations.</p> <p>Liquid water penetration The products resist the passage of moisture into the building.</p> <p>Durability Under normal service conditions, the products will provide a durable covering with a service life of in excess of 20 years.</p>



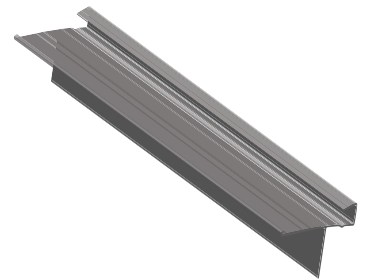


Tapco Slate Genuine Accessories

Ridge Cap



Dry Verge



Slate Vent



Ridge Vent



Limited Lifetime Warranty



Tapco Slate is a premium product with premium performance, offering beauty that is built to last, the highest performance ratings, and a transferable 50-year limited warranty.



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