

# Slates



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# Why choose Tegral?

Tegral has been an integral part of Irish homes and buildings since 1936. Tegral is a modern, innovative Irish company with a long and distinguished history, built with heart and integrity. Tried, trusted and tested, we are Ireland's only manufacturer of fibre cement slates.

With local advisors across all corners of Ireland, as well as a dedicated internal customer service and technical team, Tegral are on hand to guide you through every stage of your project.

With over 80 years experience, we have developed a deep sense of understanding of the roofing requirements for the Irish market and our slates are specifically designed for Ireland's volatile weather.

We also train roofers across Ireland at our Tegral Roofing Academy, which is Ireland's only training facility for roofing and slating, to ensure you can have access to the best quality products and workmanship.

As market leader, Tegral is committed to driving the Irish industry forward by developing affordable and environmentally sustainable building products. Everything we do is underpinned by a dedication to striking a balance between aesthetics and quality, along with eco-friendliness as sustainability and energy efficiency become more prevalent than ever before.

We also offer the best guarantees for our roofing products, so you can have complete peace of mind that you are protecting your roof and what's under it when you choose Tegral.


- Irish made for Irish weather
- Proven reliability over generations
- A modern material with classic appearance
- Can be used on both roof and facade
- Wide range of colours, shapes, sizes and surface textures
- Fully certified and guaranteed for structure and colour
- BES 6001 "Excellent" rating for responsible sourcing

# Ireland's Strongest Slate

Thrutone Endurance & Rivendale

When it comes to designing and building your home, your roof is often overlooked in the planning stage. However, it is one of the most visible parts of your home and will be the only thing keeping you and your family safe from the elements. Think about the look you want to achieve and the budget you have available, but remember, a quality roof is an investment worth making. You may need or want to change many things in your home over the course of your lifetime, but with Tegral slates, your roof won't be one of them!





Tegral slates have been Ireland's best-selling fibre cement slates for decades, tried and trusted on thousands of homes and buildings throughout the country. Building on this proud tradition, Tegral's commitment to continual innovation, research and ever-improving standards has enabled us to develop Thrutone Endurance and Rivendale – Ireland's strongest slates. Both come with a 30 year structural guarantee and 20 year colour guarantee to give you complete peace of mind when choosing the roof that will be over your heads. There are various colours, textures and edges available in this range to give you maximum design scope. Whatever your dream home... we can help you achieve it!

### **IRISH MADE FOR IRISH WEATHER**

Tegral slates are designed to withstand the toughest of conditions which are unique to our island

### **HIGHEST DENSITY OF ANY FIBRE CEMENT SLATE**

Extra reinforcing fibres & more cement make our slates stronger & more resilient than any other

### **UNIQUE SILICONISED PAINT & HIGHEST WATER REPELLENCY**

Guaranteeing your colour & finish will last

### **RATED "EXCELLENT" TO BES 6001 FOR RESPONSIBLE SOURCING**

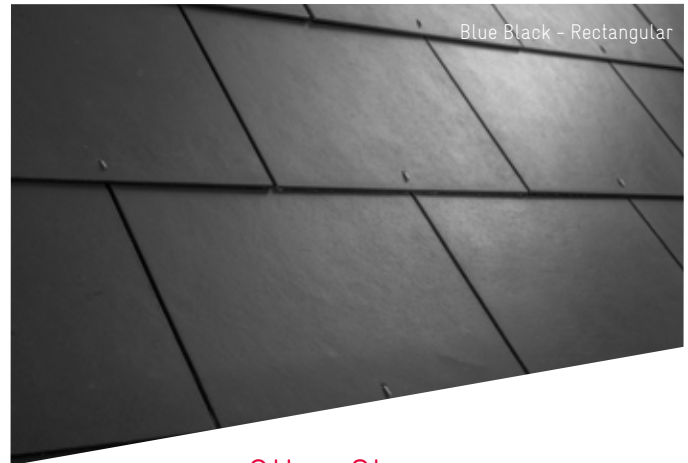
Reduce your carbon footprint by choosing Tegral who are at the forefront of sustainability

# Thrutone Endurance Smooth fibre cement slates



Thrutone Endurance Smooth slates have a superb smooth finish and square edges, which will result in a classic, elegant roof. They come with a 20-year colour and 30-year structural guarantee, giving you complete peace of mind.

Technical data		
Size of slate	600mm x 300mm	500mm x 250mm
Minimum pitch	25° (110mm head lap)	25° (100mm head lap)
Maximum pitch	90°	90°
Typical laps	100, 110mm	100mm
Batten gauge	245-250mm	200mm
Slate thickness	4mm	4mm
Covering capacity (net)	13.4 slates/m <sup>2</sup> (100mm lap) 13.6 slates/m <sup>2</sup> (110mm lap)	20.0 slates/m <sup>2</sup> (100mm lap)
Weight of slating (approx.)	20.4 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (100mm lap) 20.9 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (110mm lap)	21.3 kg/m <sup>2</sup> (0.21 kN/m <sup>2</sup> ) (100mm lap)
Battens required (net)	4.00 (net lin.m/m <sup>2</sup> ) (100mm lap)	5.00 (net lin.m/m <sup>2</sup> ) (100mm lap)
Batten size recommended (fixed to SR82)	50 x 25mm for rafters/supports not exceeding 400mm centres 50 x 35mm for rafters/supports not exceeding 600mm centres	
Fixings	Slate nails (30 x 2.65mm) Copper disc rivets (19mm dia. x 2mm stem)	Slate nails (30 x 2.65mm) Copper disc rivets (19mm dia. x 2mm stem)
Authority	EN 492	EN 492



## Other Shapes



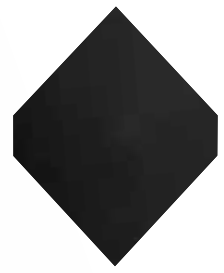
Scalloped



Chamfered



Bullnose

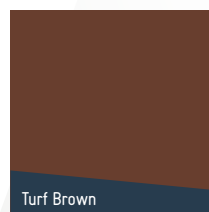
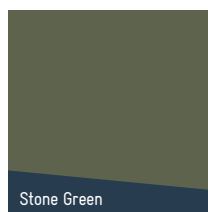
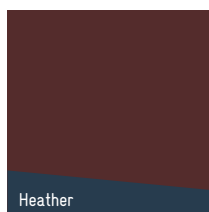
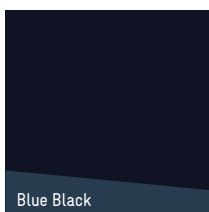


Diamond

Tegral Thrutone Endurance smooth slates are manufactured to EN492, Type NT, 4.0mm thick Fibre Cement Slates in Ireland, with a nominal density of 1970kg/m<sup>3</sup>. Thrutone Endurance smooth slates have a smooth surface with a square edge and are offered with a 20 year manufacturer's colour guarantee due to Tegral's siliconised painting process and a 30 year structural guarantee. Tegral Building Products is independently certified as meeting requirements of ISO 9001 (quality), ISO 14001 (environment), OHSAS 18001 (safety) and BES 6001 (responsible sourcing).

This information is available for download at [tegral.com](http://tegral.com)

## Colours



The printing process restricts the exact representation of products. For true colour and shape reference, please request product samples. The five non-standard colours and shapes may require extended lead times and be subject to minimum order quantities. Talk to us today about availability.



Thrutone Endurance Smooth, Ireland's best selling slate, combines the best of both worlds in terms of function and beauty.

# Thrutone Endurance Textured fibre cement slates



Thrutone Endurance Textured slates have an attractive textured surface with square edges which can enhance the overall aesthetic quality of your roof and home. They come with a 20-year colour and 30-year structural guarantee.

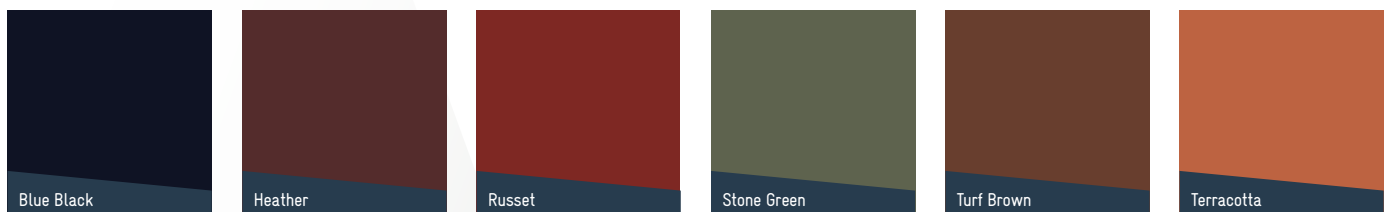


Technical data		
Size of slate	600mm x 300mm	500mm x 250mm
Minimum pitch	25° (110mm head lap)	25° (100mm head lap)
Maximum pitch	90°	90°
Typical laps	100, 110mm	100mm
Batten gauge	245-250mm	200mm
Slate thickness	4mm	4mm
Covering capacity (net)	13.4 slates/m <sup>2</sup> (100mm lap) 13.6 slates/m <sup>2</sup> (110mm lap)	20.0 slates/m <sup>2</sup> (100mm lap)
Weight of slating (approx.)	20.4 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (100mm lap) 20.9 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (110mm lap)	21.3 kg/m <sup>2</sup> (0.21 kN/m <sup>2</sup> ) (100mm lap)
Battens required (net)	4.00 (net lin.m/m <sup>2</sup> ) (100mm lap)	5.00 (net lin.m/m <sup>2</sup> ) (100mm lap)
Batten size recommended (fixed to SR82)	50 x 25mm for rafters/supports not exceeding 400mm centres 50 x 35mm for rafters/supports not exceeding 600mm centres	
Fixings	Slate nails (30 x 2.65mm) Copper disc rivets (19mm dia. x 2mm stem)	Slate nails (30 x 2.65mm) Copper disc rivets (19mm dia. x 2mm stem)
Authority	EN 492	EN 492

Tegral Thrutone Endurance textured slates are manufactured to EN492, Type NT, 4.0mm thick Fibre Cement Slates in Ireland, with a nominal density of 1970kg/m<sup>3</sup>. Thrutone Endurance textured slates have a textured surface with a square edge and are offered with a 20 year manufacturer's colour guarantee due to Tegral's siliconised painting process and a 30 year structural guarantee. Tegral Building Products is independently certified as meeting requirements of ISO 9001 (quality), ISO 14001 (environment), OHSAS 18001 (safety) and BES 6001 (responsible sourcing).

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## Colours



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## Other Shapes



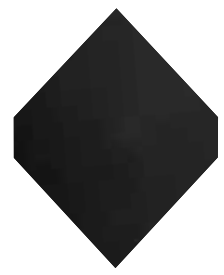
Scalloped



Chamfered



Bullnose



Diamond

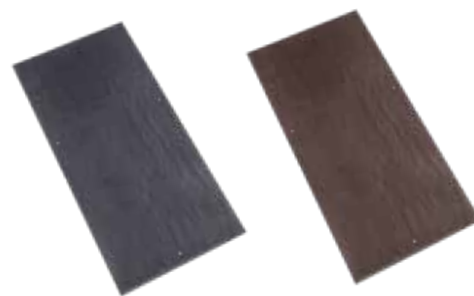




Thrutone Endurance Textured slates offer the same strength and durability as our flagship smooth slate, but have a subtle textured finish which will enhance your roof and home.

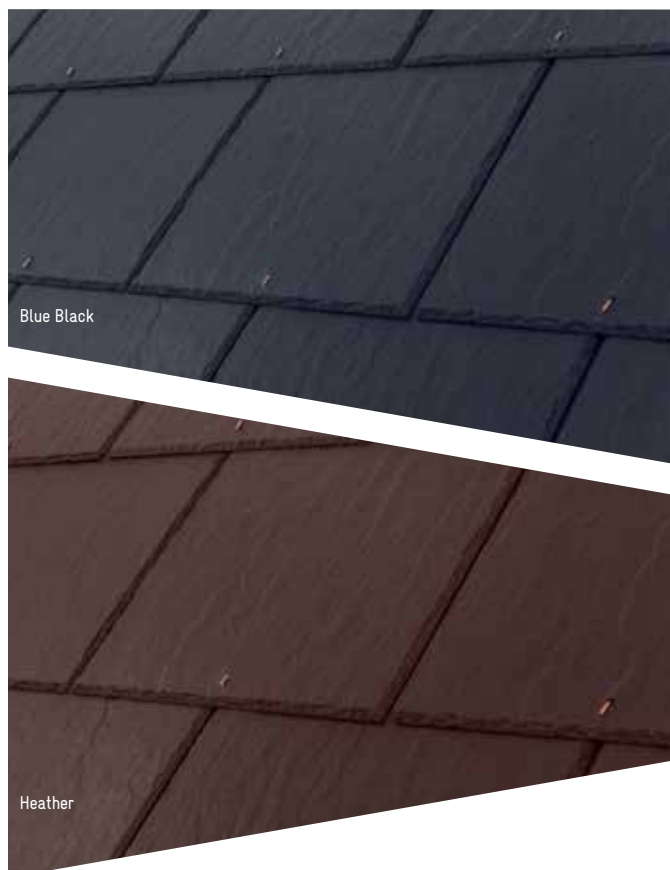
# Rivendale

## fibre cement slates



Tegral Rivendale slates are designed to reflect the qualities of natural slate, at a fraction of the cost. Available in blue black or heather, Rivendale slates have a beautifully textured surface and dressed edges, combining the benefit of modern slate technology with the look of a natural slate. They come with a 20-year colour and 30-year structural guarantee.

Technical data	
Size of slate	600mm x 300mm
Minimum pitch	25° (110mm head lap)
Maximum pitch	90°
Typical laps	100, 110mm
Maximum gauge	245-250mm
Slate thickness	4mm
Covering capacity (net)	13.4 slates/m <sup>2</sup> (100mm lap) 13.6 slates/m <sup>2</sup> (110mm lap)
Weight of slating (approx.)	20.4 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (100mm lap) 20.9 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (110mm lap)
Battens required (net)	4.00 (net lin.m/m <sup>2</sup> ) (100mm lap)
Batten size recommended (fixed to SR82 )	50 x 25mm for rafters/supports not exceeding 400mm centres 50 x 35mm for rafters/supports not exceeding 600mm centres
Fixings	Slate nails (30 x 2.65mm) Copper disc rivets (19mm dia. x 2mm stem)
Authority	EN 492



The printing process restricts the exact representation of colours.  
For true colour reference, please request product samples.

Tegral Rivendale slates are manufactured to EN492, Type NT, 4.0mm thick Fibre Cement Slates in Ireland, with a nominal density of 1970kg/m<sup>3</sup>. Rivendale slates have a textured surface with a dressed edge and are offered with a 20 year manufacturer's colour guarantee due to Tegral's siliconised painting process and a 30 year structural guarantee. Tegral Building Products is independently certified as meeting requirements of ISO 9001 (quality), ISO 14001 (environment), OHSAS 18001 (safety) and BES 6001 (responsible sourcing).

This information is available for download at [tegral.com](http://tegral.com)



A beautifully detailed surface and dressed edge that together reproduce the attractive appearance of natural slate.

# Supercem & Graphite Blue

Tegral's Supercem and Graphite Blue slates are our economy roof slate products. Both are available in 600mm x 300mm and are rectangular in shape. Supercem slates are deep black in colour, while Graphite Blue are blue-grey in colour. Both have a smooth finish and come with a 10-year colour guarantee and a 30-year structural guarantee.

Technical data	
Size of slate	600mm x 300mm
Minimum pitch	25° (110mm head lap)
Maximum pitch	90°
Typical laps	100, 110mm
Batten gauge	245-250mm
Slate thickness	4mm
Covering capacity (net)	13.4 slates/m <sup>2</sup> (100mm lap) 13.6 slates/m <sup>2</sup> (110mm lap)
Weight of slating (approx.)	20.4 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (100mm lap) 20.9 kg/m <sup>2</sup> (0.20 kN/m <sup>2</sup> ) (110mm lap)
Battens required (net)	4.00 (net lin./m <sup>2</sup> ) (100mm lap)
Batten size recommended (fixed to SR82)	50 x 25mm for rafters/supports not exceeding 400mm centres 50 x 35mm for rafters/supports not exceeding 600mm centres
Fixings	Slate nails (30 x 2.65mm) Copper disc rivets (19mm dia. x 2mm stem)
Authority	EN 492

Tegral Supercem and Graphite Blue slates are manufactured to EN492, Type NT, 4.0mm thick Fibre Cement Slates in Ireland, with a nominal density of 1970kg/m<sup>3</sup>. Supercem and Graphite Blue slates have a smooth surface with square edges and are offered with a 10 year manufacturer's colour guarantee due to the unique painting process and a 30 year structural guarantee. Tegral Building Products is independently certified as meeting requirements of ISO 9001 (quality), ISO 14001 (environment), OHSAS 18001 (safety) and BES 6001 (responsible sourcing).

This information is available for download at [tegral.com](https://tegral.com)



The printing process restricts the exact representation of colours. For true colour reference, please request product samples.



# Properties & performance of Tegral fibre cement slates

## Features of Tegral fibre cement slates

- > Minimum service life of 60 years confirmed by the Building Research Establishment (BRE)
- > Can achieve an A+ rating in the BRE Green Guide
- > Low carbon footprint of 19.4 kg CO2 – Eq
- > BES 6001 certified as "Excellent"
- > Clean, low energy production process
- > Fully recyclable

## Authority

Tegral fibre cement slates are manufactured in accordance with a quality management system registered to ISO 9001 'Quality Management Systems requirements' for products manufactured to EN 492 'Fibre cement slates and fittings – Product specification and test methods'.

Tegral fibre cement slates are also designed to meet the relevant performance requirements of SR82 'Irish code of

practice for slating and tiling' and BS5534 'British code of practice for slating and tiling'.

Additionally, the manufacturing location operates an environmental management system certified to ISO 14001 'Environmental management systems' and Health and Safety Management Standard, OHSAS 18001.

Demonstrating our commitment to sustainable building, all of our roofing products are certified "Excellent" under the BES 6001 standard for responsible sourcing.

## Traceability

Tegral exceed the requirements of the product standard EN 492: 2012 which state a minimum of 15% of slates must feature a manufacturing code on the underside of the slates. We mark a minimum of 50% of our slates.

## Environmental Product Declarations

An Environmental Product Declaration has been issued for Tegral fibre cement slates and is available on [tegral.com](http://tegral.com).

## Declarations of performance

Declarations of performance are available on [tegral.com](http://tegral.com).

## Anatomy of a Thrutone Endurance slate

Clear wax coating on underside

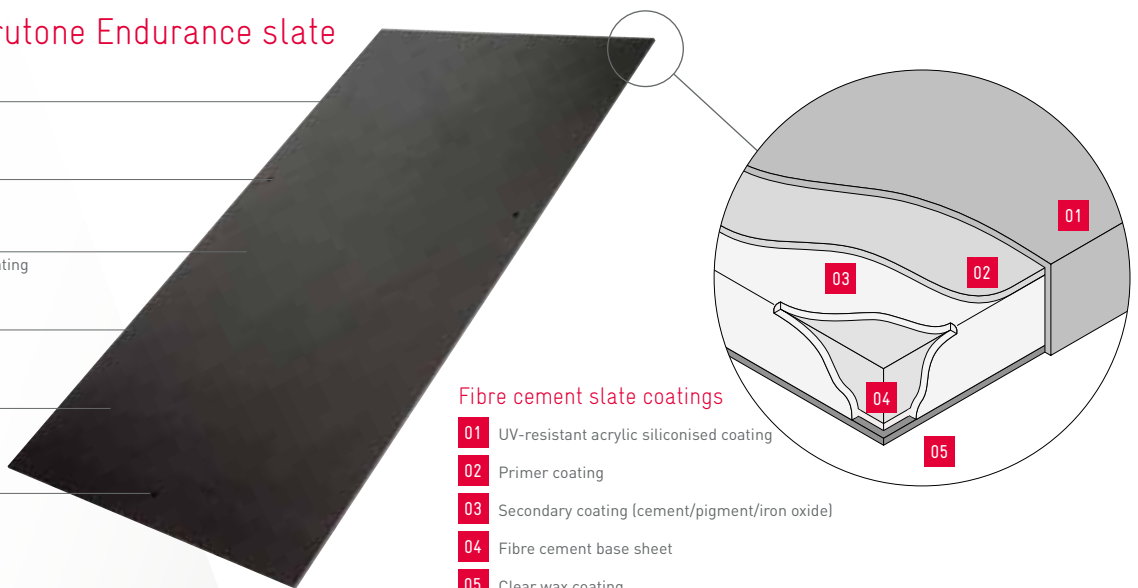
Nail hole

UV-resistant acrylic siliconised coating

Square edges

Smooth or textured surface

Crampion / disk rivet hole



### Fibre cement slate coatings

- 01 UV-resistant acrylic siliconised coating
- 02 Primer coating
- 03 Secondary coating (cement/pigment/iron oxide)
- 04 Fibre cement base sheet
- 05 Clear wax coating

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## Recyclability

At 'end of life' crushed fibre cement products can be recycled without need for further processing, as a raw material for use in manufacturing Portland cement.

## Composition and manufacture

Tegral slates are made from cement, water, selected cellulose and polymeric fibres which are all bonded together using the Hatschek rotational cylinder process. Slates are cut from formed base sheets, pressed and cured and in a separate process cured slates are sealed on the reverse, coated with an acrylic siliconised coating, cooled and stacked.

## Density and thickness

Tegral Fibre Cement Slates have an average density of 1970kg/m<sup>3</sup> (minimum of 1750kg/m<sup>3</sup>) when tested to EN492 and a nominal thickness of 4mm.

## Performance

The slates are tested for resistance to wind driven rain and meet the requirements of SR82 'Irish code of practice for slating and tiling' and BS5534 'British code of practice for slating and tiling' with respect to wind loading, when fixed in accordance with our recommendations.

## Strength

Tegral fibre cement slates meet the strength requirements of EN 492 (where the Standard requirement is >45Nm/m), achieving an average bending moment of 65Nm/m.

## Fire resistance

Tegral fibre cement slates are non-combustible and considered 'deemed to satisfy without the need for further testing' in relation to the requirements for external fire performance when tested for fire protection and spread of flame to EN 1187 'Test methods for external fire exposure to roofs' (BS 476-3).

The slates are designated A2-S1, d0 in accordance with EN 13501-1 and Class 0 for Part B of the Building Regulations, meaning their usage on roofs and walls is unrestricted. When tested in accordance with BS 476: Part 3, they achieved an EXT SAA designation; under BS 476: Part 6, they achieved an index rating of less than 12 and a sub-index rating of less than 6; and under BS 476; Part 7, they achieved a Class 1 rating.

## Environmental effects

### Thermal

The thermal resistance (R) of fibre cement slates when dry is 0.011m<sup>2</sup>K/W. For the purpose of thermal transmittance calculations, the 'R' values above should be substituted by a figure of 0.12m<sup>2</sup>K/W which includes the roof covering and airspace behind the slates. An 'R' value of 0.002m<sup>2</sup>K/W should be added for the roof underlay.

### Heat

Slates are normally unaffected by the range of climatic temperatures (-20°C to +70°C). Slates should be laid with a maximum gap of 5mm to accommodate any movement induced by changes in temperature and to facilitate the fitting of the crampion / disk rivet.

### Frost

Unaffected by frost and meets the requirements of EN 492.

### Atmospheric pollution

Suitable for most rural, marine and normal industrial environments. Avoid discharge of gases or liquids from chemical processes onto the surface of slates. Resistant to all but the most highly polluted atmospheres where sulphur dioxide levels exceed 70 microgrammes/m<sup>3</sup> of air.

## Health and safety guidance

Tegral slates are fully compressed and are solid and inert when supplied. All component materials are essentially non-volatile and of low toxicity. The major components can be regarded as essentially harmless. Tegral slates can be cut by scribing and breaking over a straight edge or by using a hand slate cutter. The use of power tools to cut fibre cement slates is not recommended as it can generate harmful dusts. The use of any power tools to cut or drill fibre cement slates should be carefully risk assessed and appropriate controls put in place. Guidance on harmful dusts in the workplace is available from the Health & Safety Authority, Ireland, the Health and Safety Executive Northern Ireland and UK.

## Fixing specification

Tegral slates should be fixed in accordance with the recommendations of SR82 'Irish code of practice for slating and tiling' and BS5534 'British code of practice for slating and tiling'. The Tegral Technical Support Department can provide a fixing specification, given the relevant criteria relating to the type of slate, site location, topography and building/roof dimensions.

# Natural Slates

Quality, naturally

Tegral also offer a range of classic natural slates, sourced from the world's foremost quarries to ensure the highest quality selection available in the Irish market. Superbly practical, durable and low maintenance, natural slates typically have a natural tonal variation that will add character and beauty to your home.

In our extensive range of natural slates, you'll find a selection of colours and finishes, all with their own unique rock characteristics which will enhance the aesthetic qualities of your building.

Our dedicated local advisors and technical team can provide guidance specific to your building project, to help ensure you choose the natural slate that is right for you.





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# Natural Slates

## Quality, naturally

### VILLAR DEL REY

Villar del Rey are exceptional quality natural slates with a distinctive smooth surface, fine grain and dark charcoal grey colour. They are sourced from Villar del Rey (Village of the King) near Badajoz in Spain, which is one of the most prestigious and historic quarries in the world. They are the most superior slate in our natural slate offering and come with a 75 year guarantee.



### TORRES

Torres are a top quality natural slate with a beautiful textured finish and mid-grey colour. One of the most sought after natural slates in the Tegral range, they originate from Northern Spain. Torres come with a 50 year guarantee.



### MOLINA

Molina high quality natural slates are sourced from Northern Spain. Their coarse texture and blue grey colour will add character and give a roof a traditional appearance. Molina come with a 50 year guarantee.



The printing process restricts the exact representation of colours.  
For true colour reference, please request product samples.

Tegral guarantee our natural slates when fixed in accordance with Irish and British codes of Practice.  
Because it is a natural product, the characteristics of the slates may vary.  
We recommend you talk to your local Tegral Advisor for further information and samples.

For advice, literature, technical support or samples call +353 (0) 59 863 1316 or visit [tegral.com](http://tegral.com)



Ulster House of the Year -  
Broadstone Architects



Superbly practical, durable and low maintenance, natural slates typically have a natural tonal variation that will add character and beauty to your home.

# Tegral

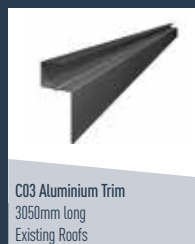
## Fixings & Accessories



C01 Aluminium Trim  
3050mm long  
New Roofs



C02 Aluminium Trim  
3050mm long  
Flush Gables



C03 Aluminium Trim  
3050mm long  
Existing Roofs



C04 Aluminium Ridge Cap Small  
3050mm long



C05 Aluminium Ridge Cap Large  
3050mm long



C06 Aluminium Soaker  
330mm long



C07 Aluminium Valley Trim  
3050mm long

Available in Blue Black and Black

### Trims

### Eaves



TCRR Rafter Roll  
6m long



UST60 Rafter Tray  
600mm long



UST12 Eaves Carrier  
1.5m long



TCF1 Eaves Comb Filler  
1000mm long



TFV10 & TFV25 Over-Fascia Vents  
1000mm long

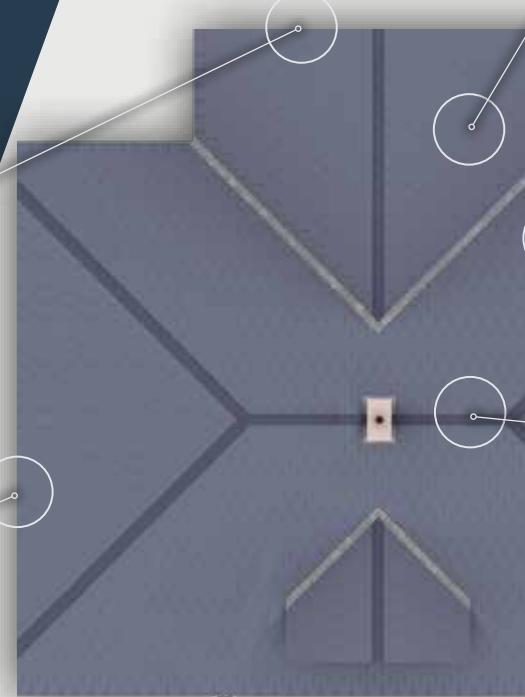


TSV10 & TSV25 Soffit Vents  
2.5m long

## Battens & Underlays

**Battens**  
JB Reds

**Underlays**  
Ventex Duo Strong 160g  
Ventex Uno 120g



Slater's Tub  
2,000 Stainless Steel Nails  
(30mm x 2.65mm gauge)  
1,000 Copper Disk Rivets /Crampions



Copper Crampions  
(Natural Copper)



Black Lacquered Drive Screws  
For FC Ridge 110mm long



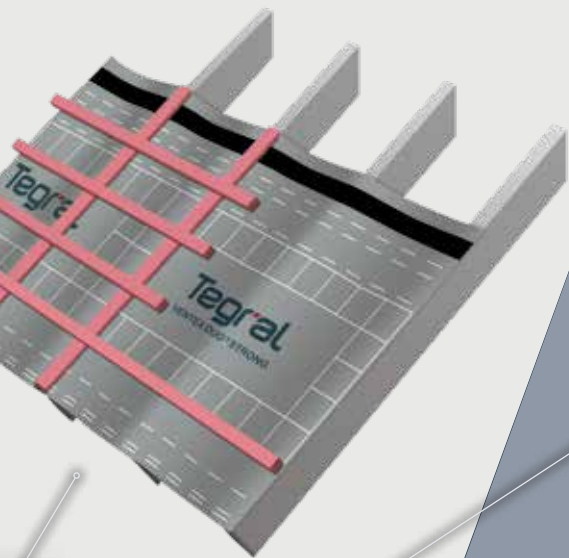
Copper Nails  
Various Sizes



Stainless Steel Slate Hooks  
Various Sizes

[www.tegral.com](http://www.tegral.com)

## General Fixings



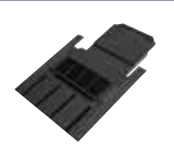
## Main Roof



TV1 & TVP1 Economy Vent  
5,000mm<sup>2</sup>  
Free Area



TVS2 Utility Slate  
(Pipe not included -  
for illustration purposes only)



TVP11 Nature Vent  
10,000mm<sup>2</sup>  
Free Area



TVP5 Large Capacity Vent  
20,000mm<sup>2</sup>  
Free Area



TVPP Flexitube  
Including 1 Jubilee Clip  
110mm



TVFW Felt Weir



Ridge & Hip Roll  
for continuous ventilation  
310mm wide. 2 x 5m rolls

## Ridges & Hips



Fibre Cement Ridge  
525mm cover  
Blue Black, Black & Colours



Fibre Cement Mono Ridge  
525mm cover  
Blue Black, Black & Colours



Fibre Cement Stop-End  
190mm cover  
Blue Black, Black & Colours



Fibre Cement Hip Stop-End  
525mm cover  
Blue Black, Black & Colours



No.2 Clay Universal Ridge  
380mm cover  
Black, Red



No.2 Clay Universal Hip Starter  
380mm  
Black, Red



No.2 Clay Universal Ridge  
Stop-End Insert  
Black, Red



Clay Plain Angle Ridge  
450mm  
Black, Red



Clay Half Round Ridge  
305mm  
Black, Red



Clay Mono Ridge  
305mm  
Black, Red

### Available Ridge & Hip Angles

Fibre Cement Standard Angles: 145°; 135°; 120°; 105°; 90°; 72 1/2°

Fibre Cement Mono Angles: 67 1/2°; 62 1/2°; 55°; 45°

Clay Standard Angles: 135°; 125°; 115°; 105°; 90°; 75°

Clay Mono Ridge: This ridge suits all roof pitches between 35° & 45°

No.2 Clay Universal Ridge: This ridge suits all roof pitches between 22 1/2° & 40°



Clay Capped Angle Ridge  
450mm  
Black, Red



PAR Dry Fix Ridge Junction Long  
Suitable for 135° - 105°  
10 per box



PAR Dry Fix Ridge Junction Short  
Suitable for 90° - 75°  
10 per box

All Tegral accessories comply with SR82 and BS5534:2013 and are available ex stock

# Vertigo

## slate rainscreen cladding system

### Versatility & Vision

For new build as well as renovation work, the Vertigo range of fibre cement slates offers an excellent aesthetic and protective solution.

Existing buildings with irregularities in walls can be corrected at the same time as being radically embellished and given real added value.

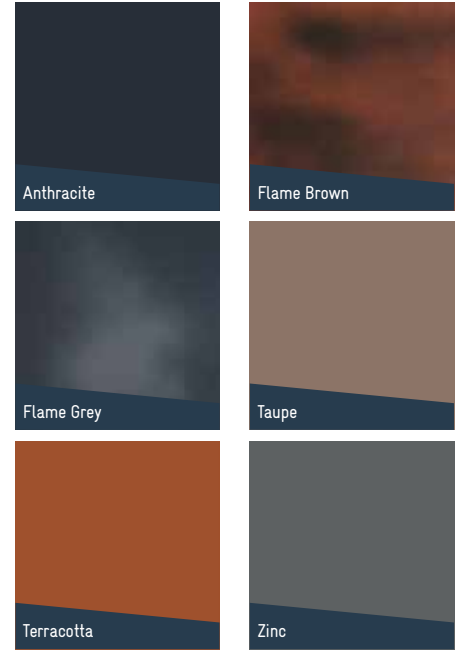
Without impact on the interior surface of buildings or causing disruption to the occupants, Vertigo slates allow regeneration and insulation of facades in an elegant, original and effective way.

Each building is unique and we have designed the Vertigo range to respond to the huge scope of architectural requirements for both new build and renovation, aesthetically and in terms of performance.

A range of 6 colours, both flat and brindled, including two beautifully riven, textured colours, offers generous design scope. Added to this are a number of configuration and fixing permutations to create the façade you want for your building.

With their invisible fastening, the different colours in the range combined with the different types of installation allow total freedom of design.

### Colour availability



May require extended lead times or be subject to minimum order quantities. Talk to us today about availability.

## Vertigo

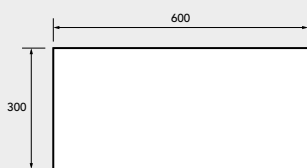
### how it works...



01

#### Traditional

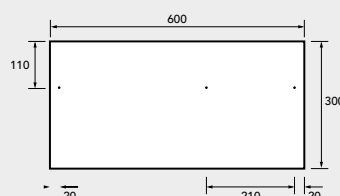
Natural slate appearance with slate hooks. No drilling.



02

#### Broken Bond

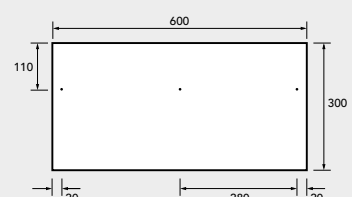
Staggered panels giving close boarded effect. Pre-holed for broken bond installation.



03

#### Panel

Regular bond panels giving geometric precision. Pre-holed for regular installation.



The slates shown in these diagrams are Flame Grey. For full information on rainscreen cladding installation requirements and design for traditional, broken bond and panel installation systems, including typical abutment details and standard accessories, visit [tegral.com](http://tegral.com)

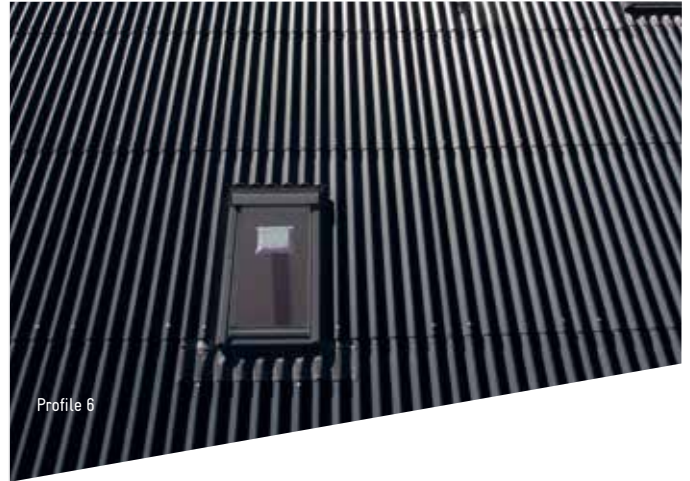


BGA Architects

Avant-garde or traditional, Vertigo gives free rein to your creativity and brings a new dimension to design with fibre cement slates.

# Profiled Sheetting

The low maintenance benefits and aesthetic qualities of Tegral's profiled sheetting make it a unique and versatile roofing and cladding material, equally striking in both a rural or urban setting and on a traditional or modern home. Available in two profile depths and a range of colours. Profile 6 has a built in polypropylene reinforcement strip ensuring a strong and durable roof.

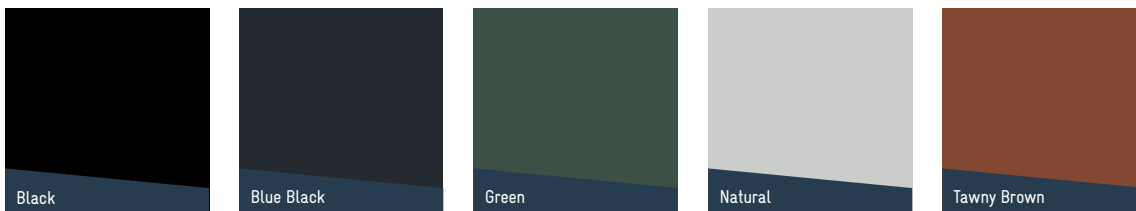


Technical data	Profile 6	Profile 3
Overall width	1086mm	782mm
Net covering width	1016mm	650.8mm
Thickness (nominal)	6.7mm	5.8mm
Density (nominal)	1450kg/m <sup>3</sup>	1450kg/m <sup>3</sup>
Pitch of corrugations (nominal)	146.5mm	72.3mm
Depth of profile	47.6mm	19.8mm
Profile height category	C	A
Side lap	70mm	131.2mm
Minimum end lap	150mm	150mm
Maximum purlin centres	1375mm	925mm
Maximum rail centres	1825mm	1525mm
Maximum unsupported overhang	350mm	250mm
Approx. weight of roof as laid, with end laps, single skin including fixings	17kg/m <sup>2</sup>	14.5kg/m <sup>2</sup>
Minimum roof pitch	10°	10°

Tegral Profiled Sheetting is manufactured to EN494, with a nominal density of 1450kg/m<sup>3</sup>. Its composition of Portland cement and water, reinforced with a combination of both natural and synthetic fibres means it has a life expectancy of at least fifty years. It meets the latest requirements for roof safety as laid down by the HSA (Ireland) and HSE (Northern Ireland). Tegral's Profiled Sheetting is manufactured for Tegral by one of our sister companies within the Etex Group and is independently certified as meeting requirements of ISO 9001 (quality), ISO 14001 (environment), OHSAS 18001 (safety) and BES 6001 (responsible sourcing).

This information is available for download at [tegral.com](http://tegral.com)

## Colours



The printing process restricts the exact representation of colours. For true colour reference, please request product samples.





Profile 3

Grand Designs House  
- Micah T. Jones Architect



For something truly unique, profiled sheeting is equally striking in both a rural or urban setting and on a traditional or modern home.



# Tegral | ACADEMY

Raising the Standards of Roofing

The Tegral Academy, Ireland's first-ever dedicated training facility for roofing, was launched in 2015 as part of an initiative to raise the standard of roofing in Ireland. Topics covered at Academy training sessions include codes of practice SR82 and BS5534, BC(A)R regulations, common defects in roof construction and how to avoid them, ventilation, roof light installation, the fibre cement manufacturing process and Tegral's quality testing procedures.

Find an Academy  
trained roofer at  
[www.tegral.com](http://www.tegral.com)



"Everything was really useful. If you stick to Tegral's specifications, you can't go wrong after today's lesson."

Jack Goucher Roofing

"Seeing exactly how the slates were made and the amount of tests done to meet Tegral's very high standard was impressive. I hadn't been aware before just how many products Tegral supply!"

Redmond Roofing Ltd.



# Our 10 point checklist raising the standards of roofing

- |                         |  |
|-------------------------|--|
| 01 Eaves                | Are the eaves constructed correctly?   |
| 02 Batten Gauge         | Are the battens set to the gauge correctly?                                  |
| 03 Underlay             | Is the underlay laid correctly?  |
| 04 Fixings              | Are the ventilation products installed correctly?                            |
| 05 Ventilation          | Does the roof ventilation comply with the building regulations?              |
| 06 The Ridge            | Is the ridge fixed in accordance with Tegral's recommendations?              |
| 07 The Hip              | Is the hip fixed in accordance with Tegral's recommendations?                |
| 08 Pitched Metal Valley | Is the valley constructed correctly with valley boards set at correct level? |
| 09 The Verge            | Is the verge correctly detailed?   |
| 10 Slates               | Have the slates been laid correctly?   |

Over 1,000  
roofers trained  
to date

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# Support & Backup

At Tegral, we are committed to providing outstanding customer care, supporting your project at every stage.

## Customer Service & Sales

We have a team of highly experienced local advisors covering every corner of Ireland who are available to discuss your roofing requirements, as well as a dedicated internal customer service team, who are on hand to support.

Tel: +353 (0) 59 863 1316 Email: [info@tegral.com](mailto:info@tegral.com)

## Technical Support

At Tegral, we pride ourselves on our technical expertise. Our Technical Support Department, which are staffed by a highly qualified team, have specialist knowledge not only of Tegral products, but also crucially, how those systems integrate with other roofing components and comply with building regulations, health and safety and environmental criteria.

For all technical queries, please contact us at:

Tel: +353 (0) 59 863 1316 Email: [support@tegral.com](mailto:support@tegral.com)



# Sustainability & Environment

Credits, credentials & clarity of information

## Quality Standards & CE Marking

Tegral is certified to ISO 9001, ISO 14001 and OHSAS 18001. All of our products covered by an EN Standard carry an appropriate CE Mark. This means that our products meet the required European health, safety and environmental protection legislation.

## BES 6001 "Excellent"

Demonstrating our commitment to sustainable building, all of our fibre cement products are certified "Excellent" under the BES 6001 standard for responsible sourcing.

## Embodied Carbon

Embodied carbon figures are available at product level for our entire roofing range. This absolute clarity of environmental information allows our customers to make informed choices.

## Gold Member of Irish Green Building Council

We are proud to be gold members of the IGBC whose objective is to transform the Irish industry to sustainable practices through policy creation, education and provision of tools to measure and accelerate progress.

## Guaranteed Irish

Tegral are one of the founding members of Guaranteed Irish and proud to be the only manufacturer of fibre cement slates in Ireland. We are committed to sourcing our raw materials locally where possible and are the largest employer in South Kildare.



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# Thrutone Endurance & Rivendale Guarantee

30 year structural, 20 year colour

## Description

Thrutone Endurance and Rivendale slates are manufactured in Ireland under the ISO 9001:2008 Quality Management System certified by both NSAI and in accordance with the European Norm EN 492:2012.

## Use

Thrutone Endurance and Rivendale slates are for use on pitched roofs, or hung vertically in accordance with the fixing of fibre cement slates as specified in the Irish Code of Practice for Slating and Tiling SR82, or the British Code of Practice for Slating and Tiling BS5534:2014 and BS8000: Part 6. Reference should also be made to Tegral's Slating Manual.

## Structural Guarantee

Thrutone Endurance and Rivendale slates meet the requirements of EN 492:2012 and when fixed in accordance with SR82 and BS5534:2014 carry a 30 year structural guarantee from the date of manufacture. If during the period of guarantee the product is found not to conform to the stated properties in the Product Standard EN492, the affected slates will be replaced at no cost.

## Thrutone Colourisation

The Thrutone colourisation system, used on Thrutone Endurance and Rivendale, is a multi-stage process, incorporating water-based coatings and ensuring a highly durable surface finish.

## Colour Guarantee

Tegral Building Products Limited guarantee the Thrutone colourisation system for a period of 20 years. The slates will be affected by weather as described below and will take on a more matt appearance over time. However, when the roof/wall is viewed at a reasonable distance from ground level, the slates will continue to show their generic colour appearance. If Thrutone Endurance or Rivendale slates fail to give their generic colour appearance within the 20 year period, then an on-site treatment to the affected area(s) will be applied free of charge.

This guarantee does not affect consumers' statutory rights.

## Weathering

On exposure the slate surface and/or its coating will be affected by weathering which may vary with site location, aspect, pitch of roof and duration of exposure. Any deterioration in this respect shall not detract from the mechanical and physical characteristics as specified in the standard or from the function of the slate as a durable element.

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# Supercem & Graphite Blue Guarantee

30 year structural, 10 year colour

## Description

Supercem and Graphite Blue slates are manufactured in Ireland under the ISO 9001: 2008 Quality Management System certified by both NSAI and BSI and in accordance with the European Norm EN 492:2012.

## Use

Supercem and Graphite Blue slates are for use on pitched roofs, or hung vertically in accordance with the fixing of fibre cement slates as specified in the Irish Code of Practice for Slating and Tiling SR82, or the British Code of Practice for Slating and Tiling BS5534:2014 and BS8000: Part 6. Reference should also be made to Tegral's Slating Manual.

## Structural Guarantee

Supercem and Graphite Blue slates meet the requirements of EN 492:2012 and when fixed in accordance with SR82 and BS5534:2014 carry a 30 year structural guarantee from the date of manufacture. If during the period of guarantee the product is found not to conform to the stated properties in the Product Standard EN492, the affected slates will be replaced at no cost.

## Etercem Colourisation

The Etercem colourisation system consists of a highly durable water-based coating and a pigmentation process using colour-fast quality pigments.

## Colour Guarantee

Tegral Buildings Products Limited guarantee the Etercem colourisation system for a period of 10 years. The slates will be affected by weather as described below and will take on a more matt appearance over time. However, when the roof/wall is viewed at a reasonable distance from ground level, the slates will continue to show their generic colour appearance. If Supercem and Graphite Blue slates fail to give their generic colour appearance within the 10 year period, then an on-site treatment to the affected area(s) will be applied free of charge.

This guarantee does not affect consumers' statutory rights.

## Weathering

On exposure the slate surface and/or its coating will be affected by weathering which may vary with site location, aspect, pitch of roof and duration of exposure. Any deterioration in this respect shall not detract from the mechanical and physical characteristics as specified in the standard or from the function of the slate as a durable element.

Thank you to the home owners who allowed us to photograph their home and the architects who supplied images - Dermot Troy Architect, Ryan W. Kennihan Architects, Quentin Keohane Architect, Adrian Hill Architect, Broadstone Architects, BGA Architects and Micah T. Jones Architect.

Under certain climatic conditions, moisture movement in fibre cement slates can cause flexing of the exposed edges. This will not affect their structural integrity or their weatherproof performance. Tegral fibre cement slates are manufactured to EN 492:2012. They are also manufactured under the ISO 9001 Quality Management System.

This publication is based on the latest data available at time of printing. Due to product changes, improvements and other factors, Tegral reserves the right to change or withdraw information contained herein without prior notice. For specific applications users should refer to the Technical Support Department and relevant Standards and Codes of Practice for guidance. The photography in this document should not necessarily be taken as recommendations of good practice. The printing process restricts the exact representation of colours. For true colour reference, please request product samples.

# Tegral

an **etex** company

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