

# **ROOF TILES AND ACCESSORIES**













#### Available accessories for these tiles

✓ Standard Verge

✓ Dry Ridge

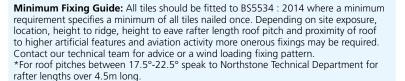
- ✓ Dry Hip
- ✓ Dry Verge
- ✓ Finials
- ✓ Ornamental Ridge ✓ Dry Valley
  - ✓ Vent Tiles

Standard Ridge = Universal Angle



### TECHNICAL DATA

Description	T-EN490-IL-0-RF-297-/-/-399-5.2
Size of Tile	419mm x 330mm
Pallet Size	1000 x 1065mm
Pallet Weight	1023kg (approximately)
Tiles per Pallet	192 tiles
Minimum Pitch	17.5° (100mm headlap)* 22.5° (75mm headlap)
Maximum Pitch	54° (without special fixing) see fixing information, page 23
Minimum Headlap	75mm
Maximum Gauge	344mm
Hanging Length	399mm
<b>Nominal Cover Width</b>	297mm
Tile Weight	5.2kg
Nail Hole Diameter	5-8mm
Nail Hole position	40mm from top of tile
Covering Capacity per m2	9.8 tiles @ 75mm headlap
Weight of Tiling (approx.)	51kg/m2 @ 75mm headlap
Battens Required (net)	2.95Lm @ 75mm headlap
Batten Size	50mm x 25mm for rafters not exceeding 600mm centres
Tile Nails	50mm x 3.35mm
Tile Clips	Tile, Verge and Eave
Eave	Standard Tile
Verge Bedded	Purpose made Left and Right Hand Half Tiles, and Left Hand Full tiles, bedded over a soffit strip
Verge Dry Fix	Roo Verge Dry Verge System
Ridge Bedded	Universal Angle Ridge 0.455mm long
Ridge Dry Fix	Roovent Dry Ridge System
Hip Bedded	Hip Angle Ridge 0.455m long
Hip Dry Fix	Roo Ridge Dry Hip System







Granite Grey



**Basalt Grey** 







Antique Red



### **DERRIE**

The Derrie tile has a traditional double roll pattern which has a proven performance for over forty years. The double roll gives the tile an inherent strength and far exceeds any strength tests specified by the British and European standards for roof tiles. The raised interlock and wide anti capillary bars improves the products performance at lower pitches. The Derrie also performs well in areas of high winds. A full range of maintenance free dry fix accessories is available and additional fixings have been designed for extremely exposed environments and steep and low pitched roofs. The Derrie is manufactured with through coloured pigment.







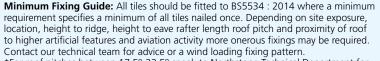


#### Available accessories for these tiles

Av	ailable accessories f	or these tiles		
~	Standard Verge	✓ Dry Hip	✓ Dry Valley	✔ Ornamental Ridge
~	Dry Ridge	✓ Dry Verge	✓ Finials	✓ Vent Tiles
Sta	ndard Ridge = Universal A	ngle		
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### TECHNICAL DATA

Description	T-EN490-IL-0-RF-297-/-/-399-5.2
Size of Tile	419mm x 330mm
Pallet Size	1000 x 10656mm
Pallet Weight	1013kg (approximately)
Tiles per Pallet	192 tiles
Minimum Pitch	17.5° (100mm headlap)* 22.5° (75mm headlap)
Maximum Pitch	54° (without special fixing) see fixing information, page 23
Minimum Headlap	75mm
Maximum Gauge	344mm
Hanging Length	405mm
Nominal Cover Width	300mm
Tile Weight	5.15kg
Nail Hole Diameter	5-8mm
Nail Hole position	33mm from top of tile
Covering Capacity per m2	9.7 tiles @ 75mm headlap
Weight of Tiling (approx.)	50kg/m2 @ 75mm headlap
Battens Required per m²	2.95Lm @ 75mm headlap 3.1Lm @ 100mm headlap
Batten Size	50mm x 25mm for rafters not exceeding 600mm
Tile Nails	70mm x 3.35mm
Tile Clips	Tile, Verge and Eave
Eave	Standard Tile
Verge Bedded	Purpose made Left Hand Full tiles, bedded over a soffit strip
Verge Dry Fix	Northstone Dry Verge System
Ridge Bedded	Universal Angle Ridge 0.455mm long
Ridge Dry Fix	Roovent Dry Ridge System
Hip Bedded	Hip Angle Ridge 0.455m long
Hip Dry Fix	Roo Ridge Dry Hip System



<sup>\*</sup>For roof pitches between 17.5°-22.5° speak to Northstone Technical Department for rafter lengths over 4.5m long.







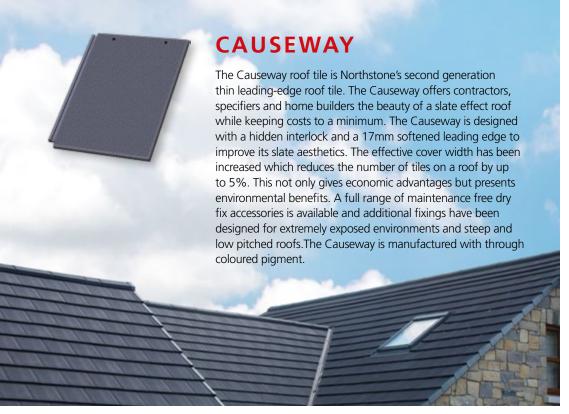
**Basalt Grey** 







Antique Red





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#### Available accessories for these tiles ✓ Standard Verge ✓ Dry Hip ✓ Dry Valley ✓ Ornamental Ridge ✓ Dry Ridge ✓ TLE Dry Verge ✓ Finials ✓ Vent Tiles Standard Ridge = Universal Angle

#### TECHNICAL DATA

**Hip Dry Fix** 

Description	T-EN490-IL-0-RF-311-/-/-400-4.65
Size of Tile	420 x 334mm
Leading Edge Depth	17mm approximately
Pallet Size	1000 x 1065mm
Pallet Weight	1140kg (approximately)
Tiles per Pallet	240 tiles
Minimum Pitch	17.5° (100mm headlap)* 25° (75mm headlap)
Maximum Pitch	54° (without special fixings)
Minimum Headlap	75mm
Maximum Gauge	345mm
Hanging Length	400mm
Normal Cover Width	311mm (approximately)
Tile Weight	4.65kg (approximately)
Nail Hole Diameter	5-8mm
Nail Hole Position	38mm from top of tile
Covering Capacity per m <sup>2</sup>	9.45 tiles at 75mm headlap 10.2 tiles at 100mm headlap
Weight of Tiling per m <sup>2</sup>	44kg/m2 at 75mm headlap (approximately) 47.5Kg/m2 at 100mm headlap (approximately)
Battens Required per m2	2.95m at 75mm headlap 3.1m at 100mm headlap
Batten Size	50mm x 25mm for rafters not exceeding 600mm centres
Tile Nails	45mm x 3.35mm ring shanked aluminium clout nail
Tile Clips	Tile, Verge and Eave clips
Eave Tiles	Standard tile single lap
Verge Dry Fix	Northstone Dry Verge System (mechanically fixed)
Ridge Dry Fix / EasyFix	Universal Angle Ridge 450mm long fixed with Northstone Dry Ridge system

Minimum Fixing Guide: All tiles should be fitted to BS5534 : 2014 where a minimum requirement specifies a minimum of all tiles nailed once on the right hand nail hole. Depending on site exposure, location, height to ridge, height to eave, rafter length, roof pitch and proximity of roof to higher artificial features and aviation activity more onerous fixings may be required. Contact our technical team for advice or a wind loading fixing

Northstone Dry Hip System

Universal Hip Angle Ridge 450mm long fixed with

\*For roof pitches between 17.5°-25° speak to Northstone Technical Department for rafter lengths over 4.5m long





**Basalt Grey** 



Granite Grey

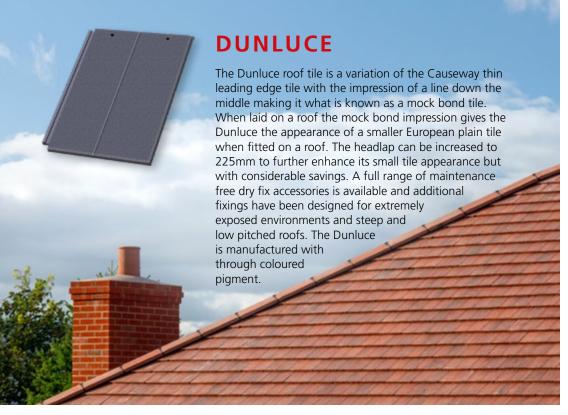




Brick Red



Antique Red









#### Available accessories for these tiles

- ✓ Standard Verge
- ✓ Dry Hip
- ✓ Finials
- Ornamental Ridge



### TECHNICAL DATA

Description	T-EN490-IL-0-RF-311-/-/-400-4.65
Size of Tile	420 x 334mm
Leading Edge Depth	17mm approximately
Pallet Size	1000 x 1065mm
Pallet Weight	1140kg (approximately)
Tiles per Pallet	240 tiles
Minimum Pitch	17.5° (100mm headlap)* 25° (75mm headlap)
Maximum Pitch	54° (without special fixings)
Minimum Headlap	75mm
Maximum Gauge	345mm
Hanging Length	400mm
<b>Nominal Cover Width</b>	311mm (approximately)
Tile Weight	4.65kg (approximately)
Nail Hole Diameter	5-8mm
Nail Hole position	38mm from top of tile
Weight of Tiling	44kg/ m2 at 75mm headlap (approximately) 47.5kg/ m2 at 100mm headlap (approximately)
Covering Capacity per m <sup>2</sup>	9.45 tiles @ 75mm headlap 10.2 tiles @ 100mm headlap
Battens required per m²	2.95m at 75mm headlap 3.1m at 100mm headlap
Batten Size	50mm x 25mm for rafters not exceeding 600mm centres
Tile Nails	45mm x 3.35mm ring shanked aluminium clout nail
Tile Clips	Tile, Verge and Eave clips
Eave Tiles	Standard tile single lap
Verge Dry Fix	Northstone TLE Dry Verge System
Ridge Dry Fix	Universal Angle Ridge 455mm long fixed with Northstone Dry Ridge system
Hip Dry Fix	Universal Hip Angle Ridge 455mm long fixed with Northstone Dry Hip System

**Minimum Fixing Guide:** All tiles should be fitted to BS5534 : 2014 where a minimum requirement specifies a minimum of all tiles nailed once. Depending on site exposure, location, height to ridge, height to eave rafter length roof pitch and proximity of roof to higher artificial features and aviation activity more onerous fixings may be required. Contact our technical team for advice or a wind loading fixing pattern. \*For roof pitches between 17.5°-25° speak to Northstone Technical Department for rafter lengths over 4.5m long.





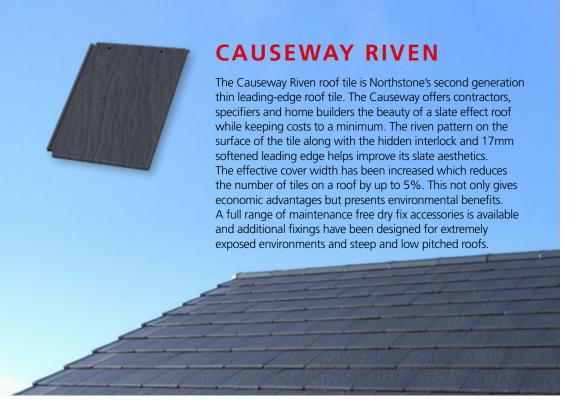








Antique Red







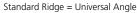


#### Available accessories for these tiles

✓ Standard Verge

✓ Dry Ridge

- ✓ Dry Hip
- ✓ Dry Verge
- ✓ Dry Valley
- ✓ Finials
- Ornamental Ridge
- ✓ Vent Tiles



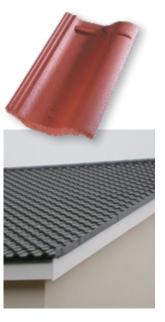




### **GEMINI**

The award winning tile that's helping developers, planners and the environment

- Aesthetic appearance of a traditional plain tile when laid
- Lays to lower roof pitches 22.5° (plain tiles 35°)
- Only 16.3 to 18.1 tiles per m<sup>2</sup> (60 for plain tiles)
- Hidden Tile Fixings
- Full Range of Dry Fix systems available
- Full Range of Ventilation Products
- Over 40% less timber battens required compared to plain tiles
- Lighter than plain tiles per m<sup>2</sup>
- Thin leading edge
- 40% CO2 saving in manufacture compared to concrete plain tiles



### **CENTURION**

The versatile concrete tile for low pitched roofing solutions.

- Manufactured since 1962
- Can be laid as low as 10°\*
- Wind barriers behind leading edge to combat wind driven rain
- Hidden tile clip fixing
- Available in grey, brown and red
- Range of dry fix fittings
- Kitemarked to BS EN 490

\*Call Technical Department for further information.



### **VANGUARD V2**

Traditional square top roof tile design

- Proven in tests to be one of the strongest tiles of its type
- Interlock feature, proven to give better driven rain, and 'ice blocking' performance
- Batten supports to allow free flow of air keeps battens dry
- Available in Brown, Grey and Red
- Kitemarked to BS EN 490

<sup>\*</sup>Call Technical Department for further information.



### **PLAIN TILE**

Traditional appeal for roofing and vertical hanging at an affordable cost

- Hanging nibs designed and positioned for maximum strength
- Shape designed to improve air circulation between tile and batten
- New design gives greater resistance to wind uplift
- Available in Black, Brown, Grey and Red
- Kitemarked to BS EB 490:2011

### FIXING ACCESSORIES

#### DONARD

**DERRIE & SEVILLE** 

**CAUSEWAY & DUNLUCE** 

NAILS







TILE CLIPS







**VERGE CLIPS** 







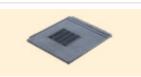
EAVE CLIPS



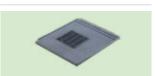




INLINE VENT TILES







ADAPTERS



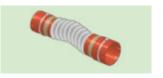




FLEXIBLE PIPES







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<sup>\*</sup>Call Technical Department for further information.

# **RIDGE TILES**

### **RIDGE TILES**



Universal Angle Ridge



Hip Angle Ridge



Half Round Ridge



Victoria Tall Ball Finial



Victoria Scroll Finial



Crown Ridge



Third Round Ridge



Block End Angle Ridge



Block End Hip Angle Ridge



Victoria Ridge



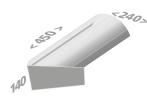
Tall Ball Finial



Short Ball Finial



Block End Half Round Ridge



Block End Hip Third Round Ridge



Mono Ridge



Scroll Finial



Crown Ball Finial

### PLEASE NOTE:

With ornamental ridge tiles allow for a four week lead time from order. All dimensions shown in mm.



Block End Mono Ridge



Baby Angle Ridge



Baby Half Round Ridge





Granite Grey



Matt Black



Brick Red

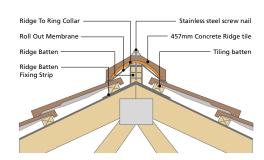


Basalt Grey



Turf Brown

### **FAST DRY RIDGE & HIP**





### Roofing Benefits:

- Maintenance free
- Eliminates the need for wet mortar
- Quick and easy to fix
- Internal union bracket providing discrete joint system
- Can be fitted in all weathers
- Defined mechanical fixing to BS5534:2014
- Complies with Building Regulations for mechanical fixing and ventilation
- Provides 5000mm2/m air flow
- Provides a weatherproof ventilation path from the outside when used as a complete system with Northstone roof tiles
- Wind resistance to 3800n/m2 (min)
- Northstone Fast dry Ridge has been designed for use with all Northstone flat Roof Tiles. No liability can be accepted for use with any other tiles (separate system available for Derrie roof tile)

### Components in a 5m Box:

	Item	Qty.
1	5m Fast Ventilated Ridge Roll	x1
2	Fast Unions (Universal Angle or Half Round)	x10
3	Fast Union Clips	x10
4	Ridge batten Connectors	x10
(5)	100 x 4.5mm Stainless Steel Screw	x10
6	6m Hip Accessory Pack, for use when Dry Fixing Hip Ridge	x1

### **FAST RIDGE FIXING GUIDE**





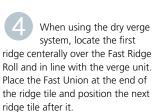


Install the underlay 30mm down from the ridge apex and nail the ridge batten connectors to the roof rafters with two Galvanized Clout nails. Wrap the other legs around the 50 x 50mm ridge batten and secure with Galvanized Clout nails.

Lay the roof tiles within specification. Place the fast Ridge Roll centrally over the ridge batten and ensure the tiles are dust free and dry.

Remove the tape protector and smooth the ridge roll over the laid tiles without crushing the corrugations.







Position the Fast Union Clip into the slot in the top of the Fast Union and secure with the Fast Drive Screw.

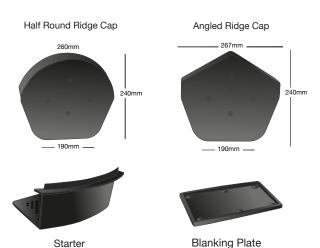


Finish the ridge with either a block end ridge or ridge end cap from the dry verge system.

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### UNIVERSAL EASY DRY VERGE

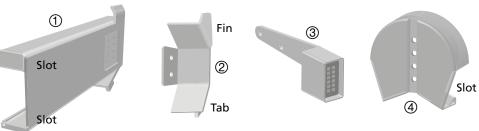
# Top Four Key Points: 1. UN-handed units - Verge U can be used on both the left and the right verge. 2. Unique design to create a completely sealed verge, preventing water ingress and infestation. 3. Manufactured from Polypropelene for excellent flexibility and UV stability. 4. Complies with BS5534:2014 for verge fixing systems. \_\_\_ 150mm



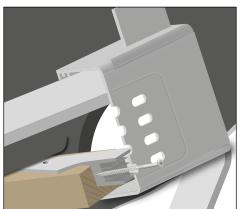
### **CAUSEWAY TILE DRY VERGE**



### Component System:

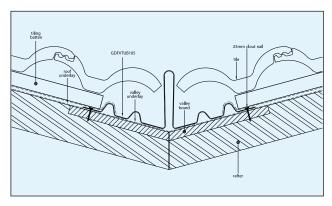


- 1 Verge Cloak Unit
- ② Verge Eave End Unit
- 3 Batten End Nail Bracket
- 4 Ridge End Cloak Unit



- Unique slim dry verge design with straight edge bottom
- Manufactured from uPVC for excellent flexibility and U V stability
- Special sealing strip prevents rain ingress into verge system
- Complies with BS5534:2014 for verge fixing systems.

### **DRY VALLEY**





Roll Tile Dry Valley, 105 mm upstand

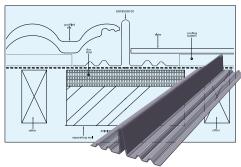


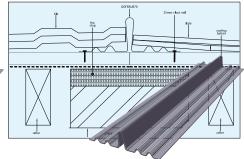
Flat Tile Dry Valley, 80 mm upstand

Valley Troughs and Bonding strips are manufactured from lead free grey GRP (Glass Reinforced Polyester) to provide a cost effective alternative to traditional lead roof.

- Life expectancy of over 30 years
- Light and easy to transport, handle and install
- Virtually maintenance free
- BBA Certification (No 07/4492)

### **BONDING STRIP**





The GRP Bonding Gutter creates a weather-tight joint between dissimilar roof coverings on semidetached and terrace homes whether it be new build or refurbishment



### Manufacturing, Handling and Surface Characteristics.

Northstone (NI) Ltd manufacture roof tiles in accordance with the British & European standard BS EN 490 and within an accredited Management system to BS EN 9001.

Whilst every effort is made to produce a consistent product in every aspect we would point out that due to nature of the product, and as a consequence of the manufacturing & handling processes the following surface characteristics may occur. These are fully recognised both within the trade and by BS EN 490.

Scratches & Abrasions: These can be caused by packing, loading, transport and handling on site: These are surface marks only and will disappear with normal weathering conditions.

Efflorescence: This is a naturally occuring phenomenon in concrete products caused by weather conditions penetrating into the pores of the concrete and dissolving lime, the water then evaporates leaving a white film of lime. The same chemical process continues enabling it to be degraded and washed away with

the rain, so that the efflorescence disappears by itself. The level of lime and weather conditions can vary therefore the level of efflorescence can fluctuate also.

Mosses & Lichens: Mosses and lichen tend to grow on roofs which are in the vicinity of trees or in shady, damp conditions. North facing slopes remain damper longer and attract moss and lichen growth more so than roof slopes which dry out quicker.

In normal circumstances these growths are not deleterious to the tile and does not effect the overall performance of the tile.

The majority of concrete roof tiles

#### **Surface Coating:**

manufactured in the world are surface treated, the major benefit being to protect the tile during the early, critical stages of its lifespan. It is recognised in the roofing industry that the surface coating of a concrete tile is temporary, lasting only for a few years; long enough to give that protection to the early life of the product. The performance of the roof tile is not affected by any of the above conditions and the quality requirements of the tile remain intact.

#### **Fixing Notice**

Where the wind load is calculated in accordance with BS 5534: 2014, it provides an uplift force which exceeds the dead load of the tile, mechanical fixings, in addition to the minimum fixings will be necessary. Factors which must be considered:

- Exposure and location of the site
- Roof pitch and rafter Length
- Height of the roof
- Local wind speeds
- Proximity to natural or artificial features affecting wind speeds

The Northstone digital wind loading fixing specification service is available free on request.

#### Colours

Colours and textures in this brochure are as accurate as can be reproduced by the printing process, however actual samples can be provided before ordering.

#### **Terms and Conditions**

Terms and conditions of sale and guarantees for products available in England Scotland and Wales are available on request.

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### Other products available from Northstone Materials



#### Concrete Blocks

Northstone manufacture concrete blocks and bricks at five strategic locations around Northern Ireland. Our depots are open for both collection and deliveries from Newtownards, Ballynahinch, Toomebridge, Coleraine, and Omagh yards.

#### **Ready Mixed Concrete**

Northstone operate strategically placed concrete depots in the vicinity of all major population centres, providing an efficient service to its customers. All depots are members of QSRMC (The Quality Scheme for Ready Mixed Concrete) and subscribe fully to their quality and management standards bringing customers the ultimate in product quality and service.





### **Supply and Fix Roofing**

Northstone is the largest and most professional roof tile supply and fix provider in the country. Expert roof tilers provide the total solution to roofing, either a new dwelling or re-roofing an existing house. The company are members of NRFC (National Federation of Roofing Contractors) and subscribe to Trustmark, a Government backed quarantee scheme.

#### **Sands and Decorative Gravels**

Northstone offer a complete range of sands suitable for the building, wet concrete industry and specialist sands for use in the horticulture and sports turf sectors. All sands are produced to comply with the most stringent British and European specifications.

A wide range of decorative gravels are also available for use in hard landscape areas.





#### **Quarry Stone**

Northstone have seven hard rock quarries strategically located province wide to supply aggregates and fill products to the construction and agricultural markets

#### **Traditional and Liquid Floor Screeds**

Floor screed is available from three strategically placed locations to provide the floor screeder with a consistent quality floor screed throughout Northern Ireland and Donegal.





#### Materials Division

Shinny Road, Macosquin, Coleraine BT51 4PS | Toomebridge BT41 3SD T: 028 7032 1100 F: 028 7032 2222

#### Roof Tile Location

51 Creagh Road, Toomebridge BT41 3SD T: 028 7965 1317

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