S.R. 82 Tiling and Slating Code of Practice

Aidan McCann Date: May 2024

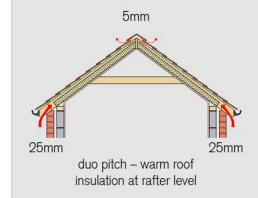


SR 82 Learning Objectives



- STANDARDS REVISION OF I.C.P. 2:2002 TO SR 82 SLATING & TILING
- **DESIGN TILE SOLUTIONS FOR VARIOUS PITCHES**
- VENTILATIONS
- DRY FIXING & ACCESSORIES
- **RIDGE DETAILS**





ROOFING SYSTEMS



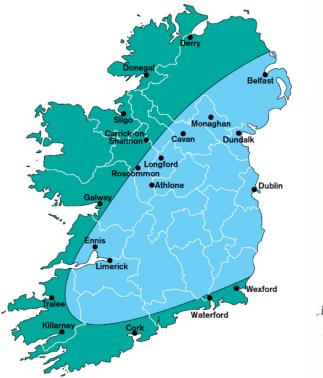
I.C.P. 2:2002 TO SR 82 SLATING & TILING – 7YRS NOW

- Significant technical changes to the Code of Practice:
 - Revisions to maps showing exposure of sites to winddriven rain and wind speeds
 - Fixing requirements have been significantly increased
 - Minimum batten sizes and requirements have been changed



ROOFING SYSTEMS NEW MAP ZONES





Carrick-on-Shannon Cavan Longford Navar Mullinga Tullamon Naas Port Laoise Wicklow Carlow Kilkenny Limerick Clonmel Moderate exposure zone Severe exposure zone

Moderate exposure is wind speeds of less than 26 m/s. Severe exposure is wind speeds greater than 26 m/s. Which equates to 58 mph

The map shows Ireland divided into two zones on the basis of wind speed.

ROOFING SYSTEMS FIXING REQUIREMENTS

THE REQUIREMENTS FOR MECHANICAL FIXING OF ROOF COVERING ELEMENTS ARE DETERMINED BY THE FOLLOWING FACTORS:

- Exposure conditions
- Roof pitch / Length
- Type of element
- Location on roof of element
- Height of building









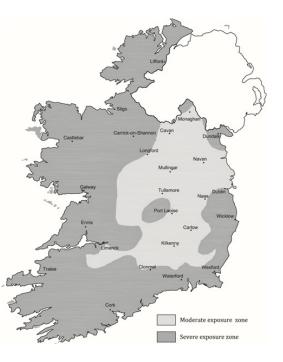


PITCH (DEGREES)	FIXING REQUIREMENTS FOR SINGLE LAP TILES			
≥ 55°	Every tile head nailed and tail clipped			
> 45° and < 55°	A. Normal locations require every tile head nailed or tail clippedB. Exposed or severely exposed locations require every tile head nailed and			
I Ridges and hips that are mortar bedded should also be Mechanically fixed !!				
	 B. Roof area excluding perimeter, normal locations require every tile in every alternate course head nailed or tail clipped C. Exposed locations require every tile head nailed or tail clipped D. Severely exposed locations require every tile head nailed and tail clipped 			

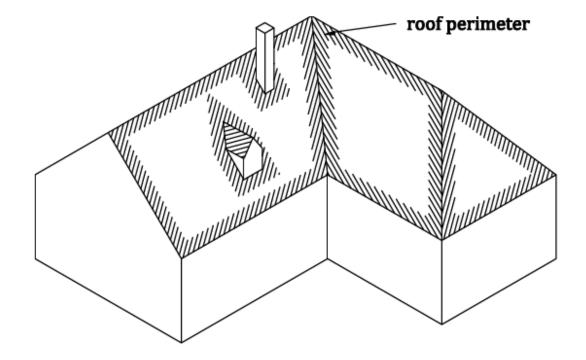
ROOFING SYSTEMS FIXING REQUIREMENTS

SEVERELY EXPOSED BUILDINGS

- Any building which stands above its surroundings or has a ridge height in excess of 12 m above adjoining ground level
- Any building on a hill slope or hill-top
- Any building which is subject to adverse wind effects, such as funnelling.



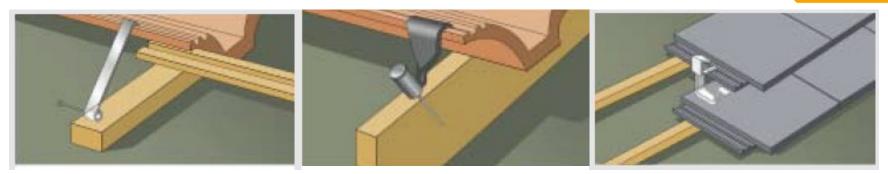
ROOFING SYSTEMS PERIMETER AREAS



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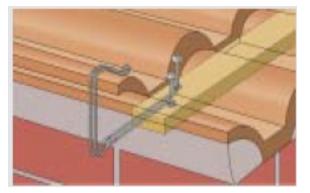
ROOFING SYSTEMS CLIPS & NAILING











ROOFING SYSTEMS New Clip







New Clip for Tiles being introduced – No need for nail.

ROOFING SYSTEMS BATTEN SIZES NEW STANDARD

	ROOF COVERING	MINIMUM BATTEN SIZE (GAUGE X DEPTH)	
	Double lap tiles	47 mm x 22 mm	
	Single lap tiles	47 mm x 35 mm	
	Fibre cement slates	47 mm x 22 mm	
	Natural slates	47 mm x 22 mm	

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Machine graded timber

Battens that are machine strength graded and CE marked should comply with the marking requirements of I.S. EN 14081-1.

47 mm x 35 mm – Minimum Batten Size

Batten marking

Strength graded battens visually graded should be marked with the following:

- a) ID of producer; and
- b) "Graded to S.R. 82".
- C) Counter battens same width as the supporting rafter and have a minimum depth of 22 mm.

ROOFING SYSTEMS WHAT TYPE OF TILE DESIGN

CONSIDERATIONS TO CONSIDER BEFORE SELECTING THE CORRECT ROOF COVERING:

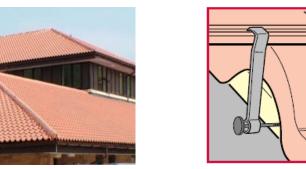
- Pitch
- Location
- Rafter Length
- Design of Roof



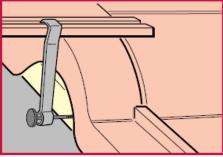
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ROOFING SYSTEMS ≥ 10° CENTURION ROOF TILES









• Weather Bar

ROOFING SYSTEMS ≥ 22.5° CAUSEWAY/DONARD/DERRIE/V2



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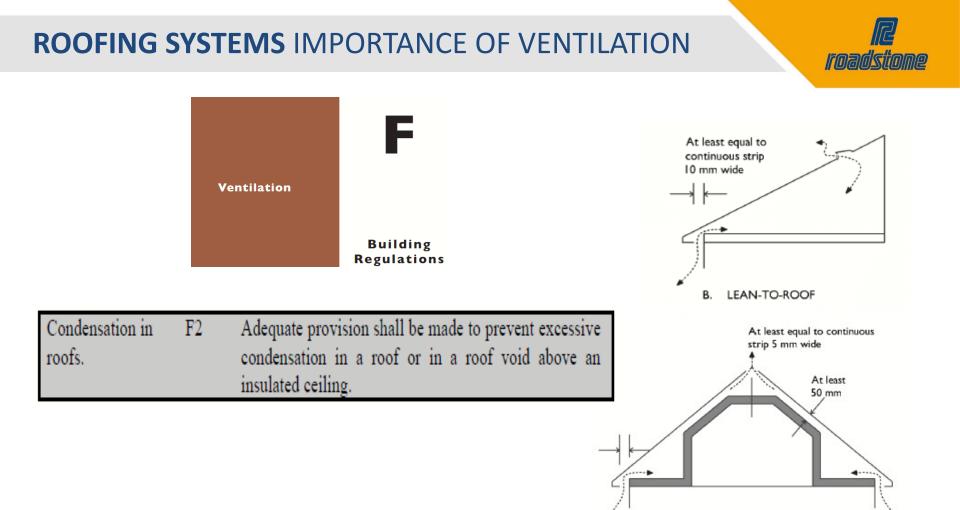
ROOFING SYSTEMS ≥ 35 ° PLAIN TILE RANGE

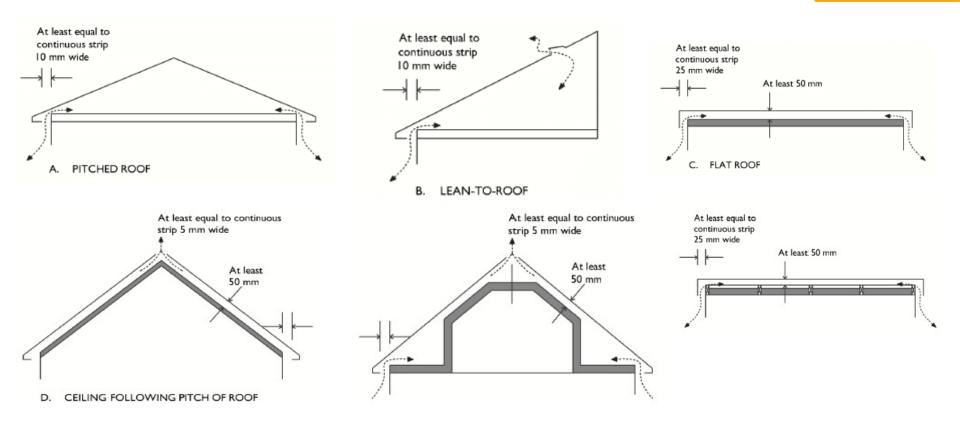


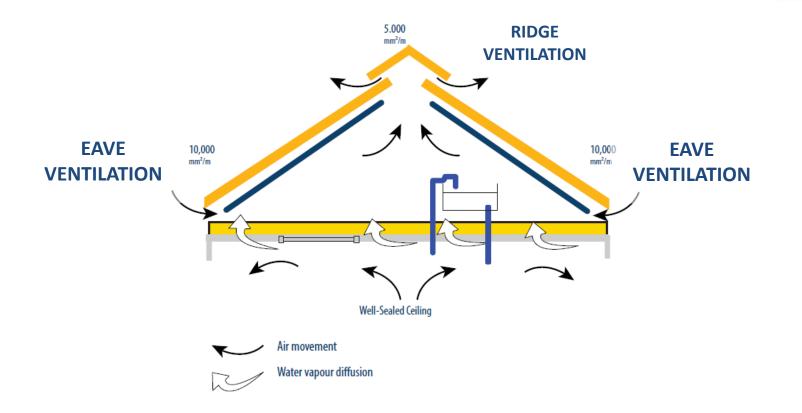


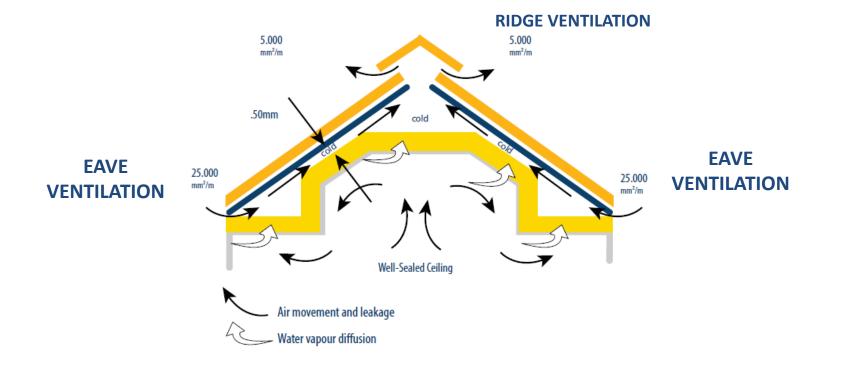


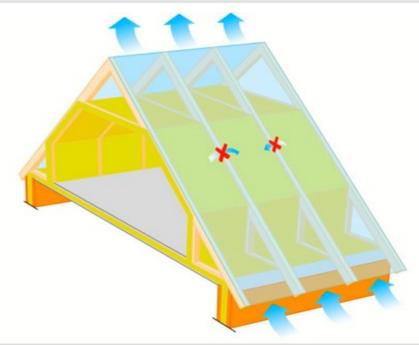
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Basic Elements of Efficient Ventilation of the Roof Space...

- Inlet at eaves
- Outlet at ridge
 Ventilation of each truss

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Ventilating across trusses is not functional

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NON-VENTILATED ROOF SPACE



NON-VENTILATED ROOF SPACE





Poor Eave Details Tilting Fillet

No Eaves Tray to carry into Gutter.

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Water Ponding Causing Leaks at Eave and unsightly staining on outer walls

ROOFING SYSTEMS – EAVE VENTILATION SYSTEM

Prevents insulating materials blocking vent grilles.

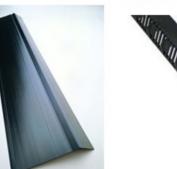
Suitable for use with or without over- hanging soffit.

Effective ventilation area 10,000 or 25,000 mm² per meter run of eaves.

Complies with requirements of Irish Building regulations for roof space ventilation.

Rafter Tray 6m

Eave Support 1.5m 1.0m



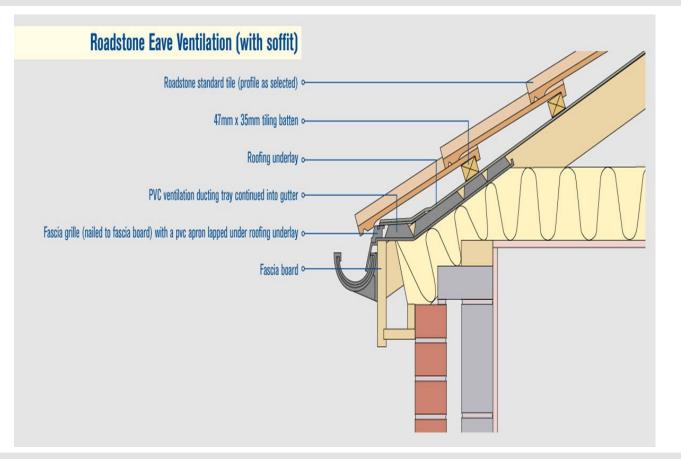








ROOFING SYSTEMS – EAVE VENTILATION SYSTEM





FLEXI PIPES

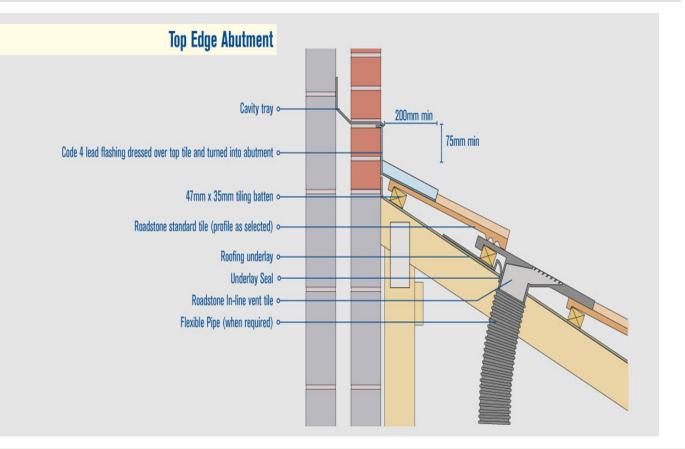


ROOFING SYSTEMS – VENT TILES





ROOFING SYSTEMS – VENT TILES



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ROOFING SYSTEMS MORTAR FAILURE



'Unfortunately, mortar will fail even when the roofer has installed it correctly'

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Structural movement is a common cause of the failure of mortar

Weather conditions are also a key factor in mortar failure

ROOFING SYSTEMS – VENT ROLL RIDGE SYSTEM



ROOFING SYSTEMS – PROFILE RIDGE SYSTEM





Eliminate the Mortar

Mechanically Fixed Ridge System Increase Security against Storm Conditions

Provides Continuous Ventilation along the Ridge Length

Eliminating Mortar Staining Provides

ROOFING SYSTEMS MORTAR FAILURE







ROOFING SYSTEMS – DRY HIP RIDGE SYSTEM





Eliminate the Mortar

Mechanically Fixed Ridge System Increase Security against Storm Conditions

Mechanically fixed Clips for Hips/Valleys

Maintenance Free System

ROOFING SYSTEMS VERGE - MORTAR FAILURE



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ROOFING SYSTEMS – DRY VERGE SYSTEM



Dry Roofing Stepped Dry Verge

The Roadstone Stepped Dry Interlocking Verge System provides a neat, mortar-free verge that eliminates the need for an undercloak. Mechanical fixing provides high resistance against wind uplift for both verge tiles and stepped verge units. Stepped Dry Verge is available in two sizes to suit:

- (a) Causeway
- (b) Donard, and Derrie tiles tiles. All units are close fitting whilst allowing for variations in headlap.



Stepped Dry Verge Roadstone standard tile (profile as selected)

Roadstone standard tile (profile as sele Interlocking stepped dry verge unit



Verge Unit

Nail fixing (see fixing instructions) 47mm x 35mm tiling batten extending 38mm over gable Roofing underlay carried across cavity Rafter



Blanking Plate



Starter







ROOFING SYSTEMS – DRY VERGE SYSTEM



Provides continuous cover and clean visual line to verge in 3mtr lengths

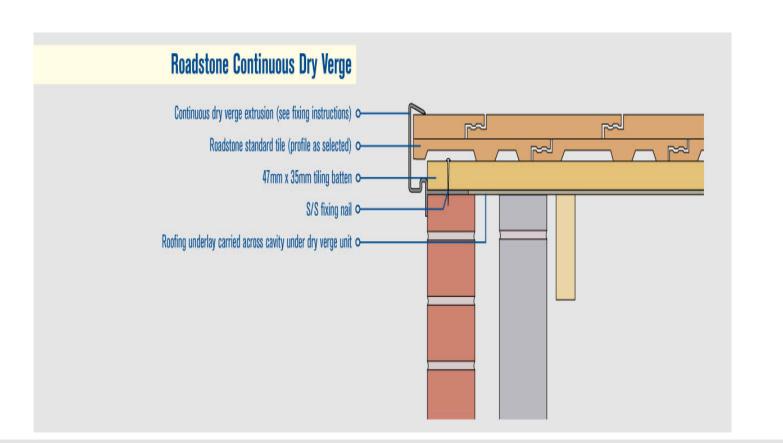
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Provides increased strength against storm conditions

No need for mortar bedding or slate undercloak

No verge clips needed

ROOFING SYSTEMS – DRY VERGE SYSTEM



ROOFING SYSTEMS VERGE - MORTAR FAILURE



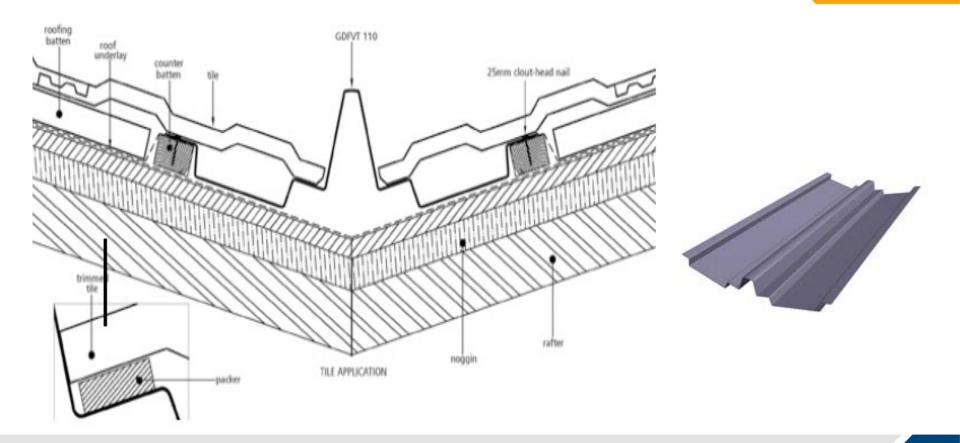


ROOFING SYSTEMS – DRY VALLEY SYSTEM



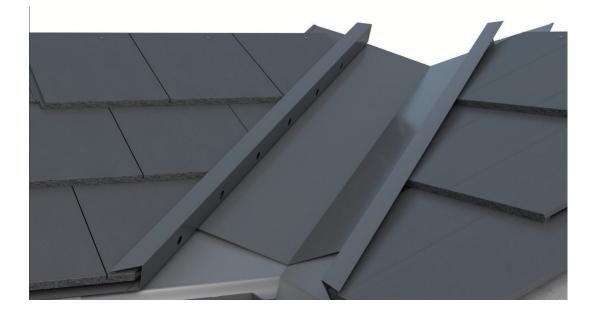


ROOFING SYSTEMS – DRY VALLEY SYSTEM



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ROOFING SYSTEMS – VALLEY TRIM ALUMINIUM



'Drip System' which allows for self-drainage of rainwater into the Valley.

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Extremely easy and quick to install.

Requires no maintenance once installed.

Removes the need to point the tiles with mortar.

ROOFING SYSTEMS



ROADSTONE ROOFING SYSTEMS

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Roof tiles
 Eave vent system
 Dry verge system
 Dry hip system
 Top abutment system
 Ridge systems
 Vent Tiles
 Ornamental ridges
 Fixing methods
 Valley Systems

Carrying out regular visual inspections of the roof, usually twice a year, in the Spring and Autumn.

Remove leaves and debris from valleys and gutters together with any moss or lichen growths that restrict the flow of water off the roof slope.

Check the condition and security of roof tiles, accessories, and flashings particularly at the more vulnerable perimeter areas of the roof at the ridge, hip, verge and valley and any abutments to walls or rooflights.

Check the function of any roof space ventilation components and clear any grilles to ensure adequate air flow within the roof void.

Roadstone offer a 60 year Structural Guarantee. Carry DOP CE Certs

All roof tiles are manufactured to the latest European Standard EN 490.

Products are manufactured to; ISO 9001, 14001 and 50001 quality, environmental and energy management systems.

Fix in accordance with the Irish code of practice for Slating & Tiling SR 82.

A full range of roofing accessories has been designed tested my Manufacture and is available to match our full range of Roof Tiles.







Thank You

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