

# Ruabon Quarry Tiles

Product Range Guide



The enduring beauty  
of Natural Welsh Clay

[www.ruabonsales.co.uk](http://www.ruabonsales.co.uk)

**Ruabon**  
WELSH CLAY PRODUCTS



# Pure Welsh Clay for over 125 years

The only remaining quarry tile manufacturer in the UK, Dennis Ruabon Quarry Tiles have been manufactured from natural Welsh clay reserves at Ruabon since 1878. Suitable for both indoor and outdoor use, they offer limitless scope for constructing floors of enduring, timeless beauty.

The versatility of Ruabon quarry tiles is unparalleled in its uses, from kitchens, conservatories and patios to shopping centres, hotel foyers and public buildings. The exceptional strength and durability, coupled with resistance to the most aggressive chemicals ensure they are the specifier's first choice for demanding industrial environments.

Ruabon's modular quarry tile range offers total flexibility to specifiers everywhere. The distinct palette of seven natural earthtones enables the designer to achieve both subtle and intricate patterns, whether traditional or contemporary.

Anti-slip and tactile tiles ensure compliance with all current legislation, ensuring public safety and fulfilment of liability obligations.

Design potential is further enhanced by a comprehensive range of ancillary fittings, decorative borders and insets. A bespoke service is available where specials and murals can be precision manufactured to customer requirements.

Architects and specifiers will find solutions for every conceivable situation and our website provides extensive technical information on all aspects of floor tiling, from planning and preparation through to maintenance and aftercare. The technical section provides downloadable data sheets & technical specifications, a brochure and product samples service, as well as fixing specifications and special applications for all our products, including paving tiles.

All of our products are produced under a Quality Management System registered to BS EN ISO 9001:2000 and products are further independently tested and certified in accordance with BS EN 14411 Annex A Group A1, which is your guarantee of consistent quality.

## Contact

For further information visit our website at [www.ruabonsales.co.uk](http://www.ruabonsales.co.uk) or contact us at:

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# Anti-Slip and Tactile Range

Standard Ruabon tiles possess good anti-slip properties and are rated as R11. However, for more demanding applications, we offer a full range of anti-slip and tactile products.



## Anti-slip

The Quarrundum range is offered in three formats: 150x150x12.5, 194x194x12.5 and 194x194x25 (Heavy Duty). The extremely high anti-slip ratings are achieved by the inclusion of premium grade silicon carbide which is rolled into the body of the tile at

the wet stage and subsequently encapsulated during drying and firing. This provides a durable surface which demonstrates a very high coefficient of friction – particularly in frequently wet conditions, slopes etc., both indoors and outdoors.



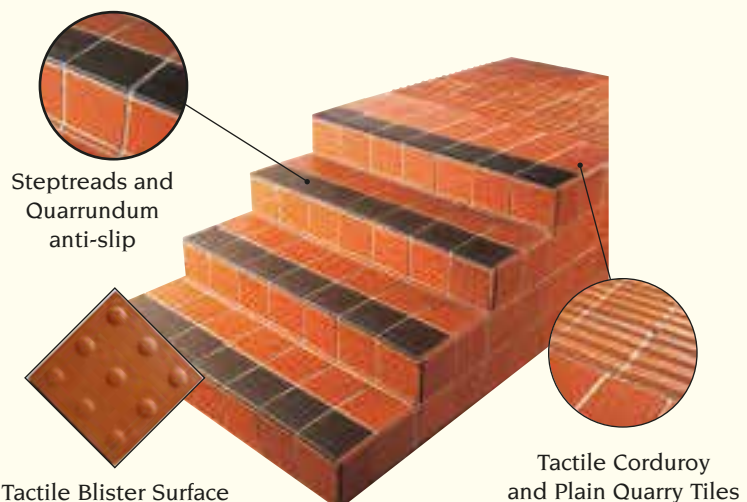
## Studded

Ruabon Studded tiles are designed to provide the ideal surface for wet barefoot areas. The protruding studs allow surface water to drain away and the natural texture of the tile finish provides the required

amount of grip to ensure secure footing in commercial shower and changing areas. When used with cove based skirting tiles they provide the perfect solution for such applications and a scheme can be augmented by the use of complementary products from the extensive Ruabon range.

## Tactile

Tactile tiles enable the specifier to ensure that schemes are fully compliant with the requirements of The Disability Discrimination Act, particularly with regards to stepped approaches and partially sighted applications. Both Tactile Corduroy and Blister surfaces are available together with ribbed, colour defined stepreads to ensure optimum safety. When used with Quarrundum anti-slip tiles the designer can plan the ultimate safe and compliant installation.



Tactile Blister Surface

Tactile Corduroy  
and Plain Quarry Tiles

# Quarry Tile Applications

A more extensive range of commercial, industrial and domestic applications can be viewed on our website

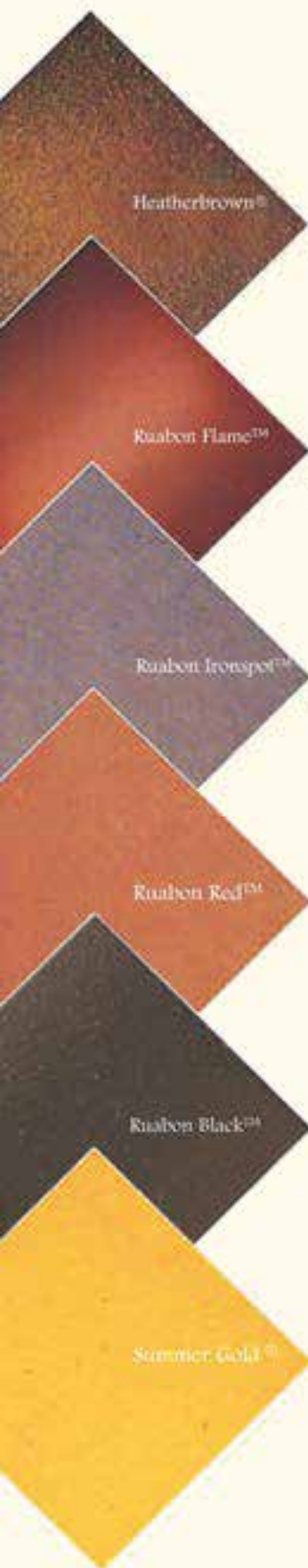
Due to the limitations of the printing process, actual tile colours may vary from those shown. Final selection should be made from actual product samples.



# Decorative Range

## Meshed Border & Panel Range

Mesh mounted borders, corners and inset panels are available in three colourways and two sizes to suit 150, 194 and 306 tiles



Red  
300x300mm  
400x400mm

Heather Brown  
300x300mm  
400x400mm

Summer Gold  
300x300mm

Dilys - 150 Format, Megan - 194 Format



Glenys - 150 Format, Olwen - 194 Format



Cerys - 150 Format



## \*NEW\* Meshed Strip Borders & Corners

New for October 2006 is the range of meshed strip borders and corners. Available in 150mm format and three colourways. They are securely mounted on mesh backing for ease of installation. Compatible with Ruabon 150mm and 306mm range of Quarry Tiles.

Black Meshed Strip Border & Corner



Summer Gold Meshed Strip Border & Corner



Red Meshed Strip Border & Corner



## Polygon Range



Brecon 194x194mm  
with 72x72mm Hafod Black insets



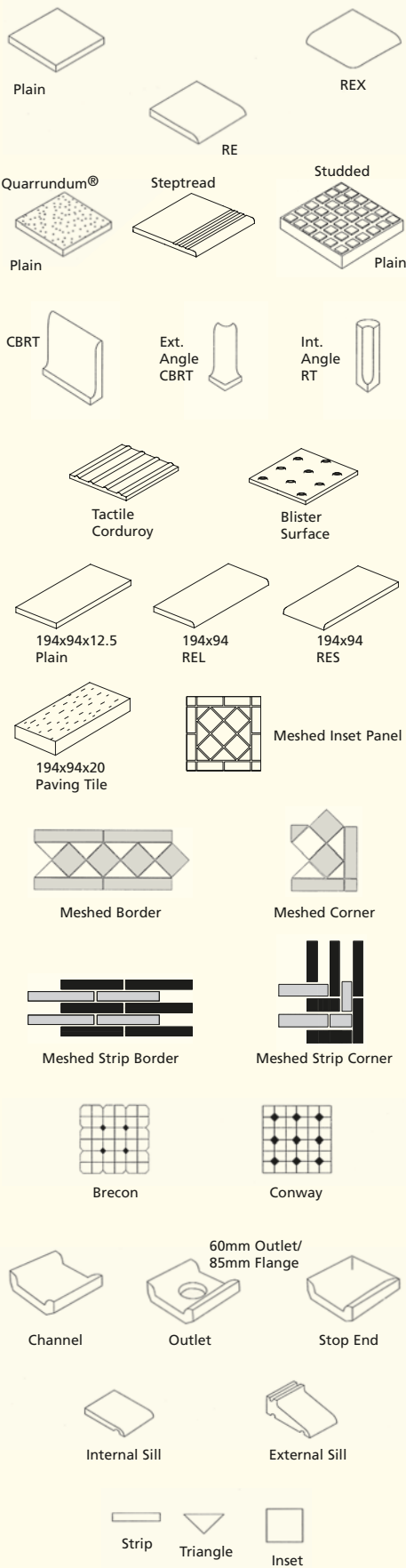
Conway 150x150mm with Hafod  
Black insets 72x72mm



Due to the limitations of the printing process, actual tile colours may vary from those shown. Final selection should be made from actual product samples.

# Product Range Summary

		HEATHER BROWN	RUABON RED	RUABON FLAME*	HAFOD BLACK	SUMMER GOLD	RUABON BLACK	IRONSPOUT
<b>150 RANGE</b>								
STANDARD	150 x 150 x 12.5 PLAIN, RE, REX	●	●	●	●	●	▲	▲
ANTI SLIP	150 x 150 x 12.5 QUARRUNDUM PLAIN, RE, REX	●	●	✗	●	✗	▲	✗
	150 x 150 x 12.5 THREE-RIB STEPTREAD	●	●	✗	●	●	✗	✗
	150 x 150 x 12.5 STUDDED PLAIN, RE, REX	●	●	✗	●	✗	✗	✗
COVE SKIRTING	150 x 150 x 12.5 CBRT	●	●	●	●	●	▲	▲
	150 x 150 x 12.5 RE	●	●	●	●	●	▲	▲
	150 INTERNAL ANGLES FOR CBRT	●	●	●	●	●	▲	▲
	150 EXTERNAL ANGLES FOR CBRT	●	●	●	●	●	▲	▲
BORDERS & INSETS	150 x 300 x 12.5 MESHED BORDER (BOX OF 6)	●	●	✗	✗	●	✗	✗
	150 x 150 x 12.5 MESHED CORNER (BOX OF 4)	●	●	✗	✗	●	✗	✗
	300 x 300 12.5 MESHED INSET PANEL	●	●	✗	✗	●	✗	✗
MESHED STRIP BORDERS & CORNERS	150 x 300 x 12.5 MESHED STRIP BORDER (BOX OF 6)	✗	●	✗	✗	●	●	✗
	150 x 300 x 12.5 MESHED STRIP CORNER (BOX OF 4)	✗	●	✗	✗	●	●	✗
<b>194 RANGE</b>								
STANDARD	194 x 194 x 12.5 PLAIN, RE, REX	●	●	▲	●	▲	▲	▲
	194 x 94 x 12.5 PLAIN, REL, RES, REX	●	●	▲	●	▲	▲	▲
HEAVY DUTY	194 x 194 x 25 PLAIN, RE, REX	●	●	✗	●	✗	✗	✗
ANTI SLIP	194 x 194 x 12.5 QUARRUNDUM PLAIN, RE, REX	●	●	✗	●	✗	✗	✗
	194 x 194 x 25 QUARRUNDUM PLAIN, RE, REX	●	●	✗	●	✗	✗	✗
	194 x 150 THREE-RIB STEPTREAD	●	●	✗	●	●	✗	✗
COVE SKIRTING	194 x 150 x 12.5 CBRT	●	●	▲	●	▲	▲	▲
	194 x 194 x 12.5 RE	●	●	▲	●	▲	▲	▲
	150 INTERNAL ANGLES FOR CBRT	●	●	▲	●	▲	▲	▲
TACTILE	194 x 194 x 12.5 CORDUROY SURFACE	●	●	▲	●	▲	▲	▲
	194 x 194 x 12.5 BLISTER SURFACE	●	●	✗	●	✗	✗	✗
BORDERS & INSETS	194 x 400 x 12.5 MESHED BORDER (BOX OF 6)	●	●	✗	✗	✗	✗	✗
	194 x 194 x 12.5 MESHED CORNER (BOX OF 4)	●	●	✗	✗	✗	✗	✗
	400 x 400 x 12.5 MESHED INSET PANEL	●	●	✗	✗	✗	✗	✗
<b>300 RANGE</b>								
	306 x 306 x 12.5 PLAIN	✗	●	✗	✗	✗	✗	✗
	306 x 150 x 12.5	✗	●	✗	✗	✗	✗	✗
<b>PAVING TILE</b>								
	194 x 94 x 20 DRAG FACE	●	●	✗	▲	✗	✗	✗
	94 x 94 x 20 DRAG FACE	●	●	✗	▲	✗	✗	✗
	194 x 194 x 20 DRAG FACE	●	●	✗	▲	✗	✗	✗
<b>POLYGON</b>								
	BRECON 194 x 194 x 12.5 (72mm INSET)	✗	●	✗	✗	✗	✗	✗
	CONWAY 150 x 150 x 12.5 (72mm INSET)	✗	●	✗	✗	✗	✗	✗
<b>CHANNELS &amp; FITTINGS</b>								
	150 x 150 x 38 CHANNEL	▲	▲	✗	▲	▲	✗	✗
	150 x 150 x 38 CHANNEL OUTLET	▲	▲	✗	▲	▲	✗	✗
	150 x 150 x 38 CHANNEL STOP END	▲	▲	✗	▲	▲	✗	✗
<b>INTERIOR &amp; EXTERIOR SILLS</b>								
	203 x 150 x 22 INTERNAL SILL	●	●	✗	▲	✗	✗	✗
	150 x 173 x 58 EXTERNAL SILL	●	●	✗	▲	✗	✗	✗
<b>DECORATIVE FLOOR COMPONENT</b>								
	STRIP 150 x 25 x 12.5	▲	●	✗	●	▲	✗	✗
	TRIANGLE 125 x 64 x 12.5	●	●	✗	●	▲	✗	✗
	INSET 94 x 94 x 12.5	●	●	✗	●	▲	✗	✗
	INSET 72 x 72 x 12.5	✗	●	✗	●	▲	✗	✗
	INSET 50 x 50 x 12.5	✗	●	✗	●	▲	✗	✗



● = AVAILABLE FROM STOCK

▲ = MADE TO ORDER PRODUCTS

✗ = NOT AVAILABLE

\*FLAME NOT CERTIFIED AS FROST PROOF

# Technical properties

## Technical properties of extruded ceramic tiles

**Frost Resistance** Ruabon quarry tiles comply with EN 202 as frost resistant and are suitable for outdoor use under most climatic conditions. However, when using quarry tiles externally it is necessary to ensure that the area is well drained.

**Chemical Resistance** All Ruabon quarry tiles are highly resistant to most household cleaners, swimming pool chemicals and a range of acids and alkalis.

**Stain Resistance** Most stains are easily removed using warm water and detergent.

**Slip Resistance** It is recommended that the Quarrundum<sup>®</sup> slip resistant finish is used in areas of high risk such as steps or particularly wet areas. The studded tile is ideal for 'barefoot' applications.

**Cleaning & Maintenance** Ruabon after-care products are recommended for all quarry tiles. Data sheets are available on request.

All Dennis Ruabon quarry tiles are manufactured to achieve technical properties which comply with the highest requirements of BS EN 14411 Group A1 with the exception of Ruabon Flame which complies with Group A1 Ia.

The technical requirements of the current British/European/International standards are detailed in table shown.

It can be seen that Dennis Ruabon quarry tiles meet the more stringent, higher classification of the International standard.

All Ruabon 1st quality products are required to undergo rigorous independent audit tests, which are carried out at the laboratories of British Ceramic Research. The British Standards Institute also endorse these tests through regular audit inspections.

**Technical Data Sheets** covering every aspect of quarry tiles from planning and preparation to maintenance and aftercare can be freely viewed and downloaded from our website or hard copies may be requested from our Sales Department.

Fixing specifications, samples request service and brochure request facilities are also available on our website at [www.dennisruabon.co.uk](http://www.dennisruabon.co.uk)



Plain tiles are suitable for normal applications which may be occasionally wet.



Quarrundum<sup>®</sup> anti-slip tiles ensure safe, durable surfaces even in frequently wet conditions.



Studded tiles are ideal for all 'barefoot' applications.

Technical property	ISO 10545 Requirement	DRL typical value
<b>Water absorption</b> ISO 10545 3 & EN 99	A1 ≤3% A11a 3-6%	~ 2.4% ~ 3.2%
<b>Modulus of rupture</b> ISO 10545 - 4 & EN 100	Group A1 Av ≥23N/mm <sup>2</sup> Group A11a Av ≥20N/mm <sup>2</sup>	Group A1 Av > 23N/mm <sup>2</sup> Group A11a Av > 23N/mm <sup>2</sup>
<b>Abrasion resistance</b> ISO 10545 - 4 & EN 102	Group A1 < 275mm <sup>3</sup> Group A11a < 393mm <sup>3</sup>	100mm <sup>3</sup> 100mm <sup>3</sup>
<b>Scratch hardness</b> EN 101	No requirement	> 7 Moh's scale
<b>Moisture expansion</b> ISO 10545 - 10 & EN 155	Not finalised	Negligible
<b>Linear thermal expansion</b> ISO 10545 - 8 & EN 103	No requirement	<5x10 <sup>-6</sup> °C
<b>Thermal conductivity</b>	No requirement	1wm <sup>-1</sup> °C
<b>Thermal shock resistance</b> ISO 10545 - 9 & EN 104	Required	Pass
<b>Frost resistance</b> EN 202	100 freeze thaw cycles	100 cycles
<b>Chemical resistance</b> EN 106		
(a) Household chemicals & pool cleaning salts – Sodium Hypochlorite & Ammonium Chloride	Manufacturer to state classification	Class UA (no visible effect)
(b) Low concentration acids & alkalis – Hydrochloric Acid 3% v/v & Citric Acid sol.		
(c) High concentration acids & alkalis – Hydrochloric Acid 18% v/v, Lactic Acid 5% v/v & Potassium Hydroxide sol.		
<b>Slip resistance</b>	Stated co-efficient of friction	R11 – R13. See Technical Data Sheet No. 6
<b>Staining resistance class 1 – 5</b>	Manufacturer to state classification 1 = not resistant 5 = highly resistant	Class 5



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