

REFINE

PORCELAIN & CERAMIC | FLOOR & WALL TILES

STONE

2CM

MOSAICS

ABSOLUTE



JOHNSON • TILES 

MADE IN THE UK SINCE 1901

REFINE

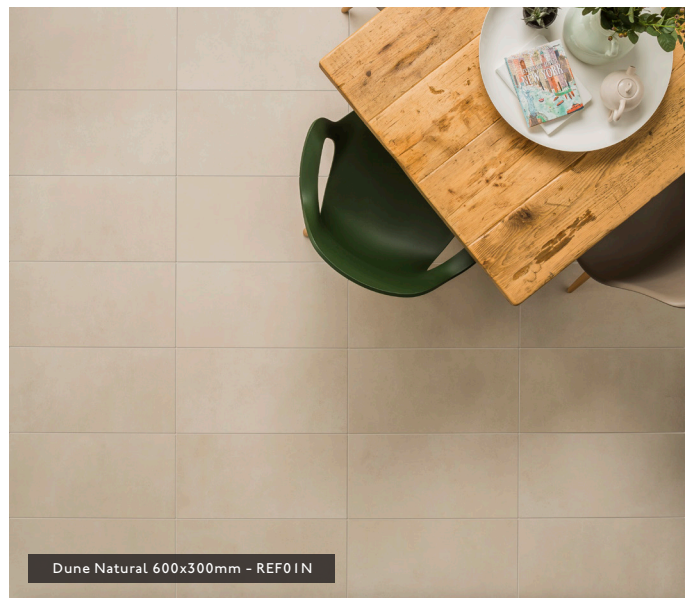
Taking inspiration from the natural characteristics of stone, Refine offers 4 colours from the warm, sandy undertones of Dune to the deep, gunmetal grey of Basalt. Natural and Grip finishes are available in all four colourways, with the Grip providing a PTV 36+ slip resistance rating, ideal for commercial installations. A Grip+ 2cm option is also featured in Dune and Pewter in 900x900mm and 1200x1200mm, perfect for extending tiling outdoors. Experiment with 9 different size options and 4 décor mosaics to choose from.

Front Cover Image: Dune Natural 2700x900mm Ductile - REF1DN.



Dune Natural 600x600mm - REF01N







Colours & Product Codes

V2: Low to Moderate Shade Variation



DUNE LRV: 62

Product Codes (All Sizes): **N** REF01N + **N** REF1DN Ductile + **G** REF01G + **E** REF01E 2cm

Mosaic Product Codes (All Sizes): **N** REF1NM + **G** REF1GM



PEWTER LRV: 29

Product Codes (All Sizes): **N** REF02N + **N** REF2DN Ductile + **G** REF02G + **E** REF02E 2cm

Mosaic Product Codes (All Sizes): **N** REF2NM + **G** REF2GM



LAVASTONE LRV: 18

Product Codes (All Sizes): **N** REF03N + **N** REF3DN Ductile + **G** REF03G

Mosaic Product Codes (All Sizes): **N** REF3NM + **G** REF3GM



BASALT LRV: 19

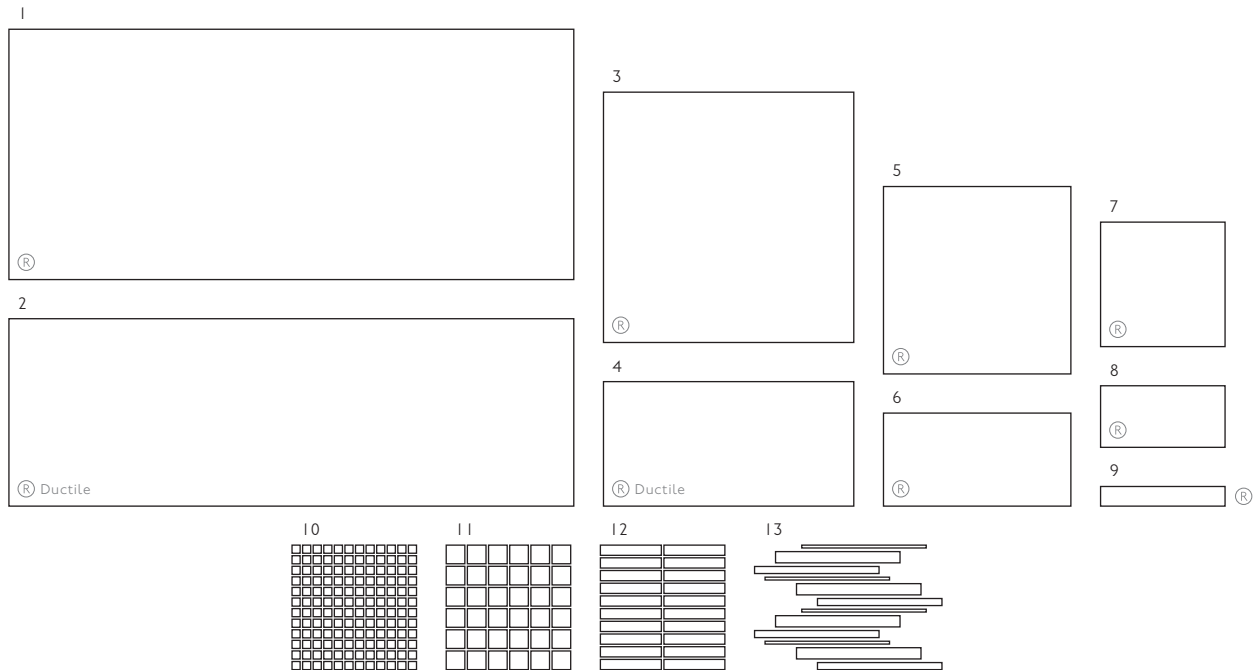
Product Codes (All Sizes): **N** REF04N + **N** REF4DN Ductile + **G** REF04G

Mosaic Product Codes (All Sizes): **N** REF4NM + **G** REF4GM



Size Formats

Finishes & Availability



#	Sizes	Finish Type	Colour Availability	Thickness	Pz / Box	M2 / Box	Kg / Box
1	2700x1200mm	(N) Only	All Colours Shown	6mm	1 Tile	3.23 m ²	45.50 kg
2	2700x900mm	(N) Ductile	All Colours Shown	6mm	1 Tile	2.42 m ²	29.04 kg
3	1200x1200mm	(N) + (G)	All Colours Shown	9mm	1 Tile	1.44 m ²	30.50 kg
		(E) 2cm	01 & 02 Only	20mm	1 Tile	1.44 m ²	66.02 kg
4	1200x600mm	(N) + (G)	All Colours Shown	9mm	2 Tiles	1.43 m ²	30.32 kg
		(N) Ductile	All Colours Shown	6mm	3 Tiles	2.16 m ²	25.80 kg
5	900x900mm	(N) + (G)	All Colours Shown	9mm	2 Tiles	1.62 m ²	34.00 kg
		(E) 2cm	01 & 02 Only	20mm	1 Tile	0.81 m ²	37.09 kg
6	900x450mm	(N) + (G)	All Colours Shown	9mm	3 Tiles	1.21 m ²	25.50 kg
7	600x600mm	(N) + (G)	All Colours Shown	9mm	3 Tiles	1.07 m ²	23.22 kg
8	600x300mm	(N) + (G)	All Colours Shown	9mm	6 Tiles	1.07 m ²	22.00 kg
9	600x100mm	(N) + (G)	All Colours Shown	9mm	10 Tiles	0.59 m ²	13.30 kg

#	Mosaics	Finish Type	Colour Availability	Thickness	Pz / Box	M2 / Box	Kg / Box
10	25x25mm Square Mosaic Sheet: 300x300mm	(N) + (G)	All Colours Shown	9mm	5 Sheets	0.44 m ²	9.00 kg
11	50x50mm Square Mosaic Sheet: 300x300mm	(N) + (G)	All Colours Shown	9mm	5 Sheets	0.44 m ²	9.00 kg
12	150x30mm Strips Mosaic Sheet: 300x300mm	(N) + (G)	All Colours Shown	9mm	5 Sheets	0.44 m ²	9.00 kg
14	Mixed Strips Mosaic Sheet: 450x300mm	(N) + (G)	All Colours Shown	9mm	5 Sheets	0.44 m ²	9.00 kg

Key to Finishes: (N) Natural (G) Grip (E) Grip+ 2cm

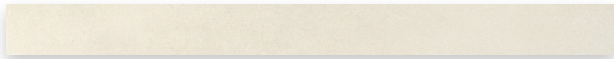
Note: All sizes indicated are metric modular. All dimensions are in millimetres. All sizes shown are nominal. For the most up-to-date availability information, please visit our website.

All LRV results are from Johnson Tiles' internal test reports and are to be used for guidance only. LRV: Light Reflectance Value. (R) Rectified Edge

Ductile - 6mm thick tiles are classed as Ceramic [BIII] and are suitable for internal and external wall applications only.



Additional Fittings Finishes & Availability



DUNE LRV: 62

Skirting Product Code (All Sizes): **N** REF1NS



PEWTER LRV: 29

Skirting Product Code (All Sizes): **N** REF2NS



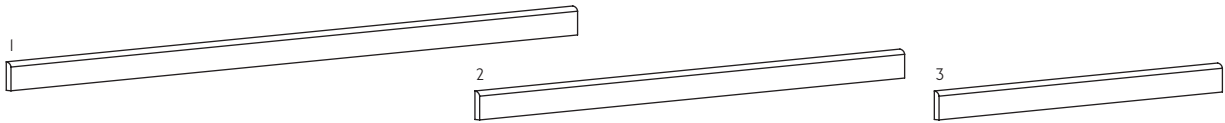
LAVASTONE LRV: 18

Skirting Product Code (All Sizes): **N** REF3NS



BASALT LRV: 19

Skirting Product Code (All Sizes): **N** REF4NS



#	Fittings	Finish Type	Colour Availability	Thickness	Pz / Box	Lm / Box	Kg / Box
1	1200x50mm Bevel Top Skirting	N Only	All Colours Shown	9mm	5 Tiles	6.00 lm	7.00 kg
2	900x50mm Bevel Top Skirting	N Only	All Colours Shown	9mm	5 Tiles	4.50 lm	5.50 kg
3	600x50mm Bevel Top Skirting	N Only	All Colours Shown	9mm	5 Tiles	3.00 lm	3.00 kg

Key to Finishes: **N** Natural

Note: All sizes indicated are metric modular. All dimensions are in millimetres. All sizes shown are nominal. For the most up-to-date availability information, please visit our website. All LRV results are from Johnson Tiles' internal test reports and are to be used for guidance only. LRV: Light Reflectance Value.



Pewter Natural 900x900mm - REF02N





Technical Information

Specification

Range	Size / Finish	Wall Suitability	Floor Suitability	Wet Barefoot	CSV	Material
Refine	All Sizes Shown [N]	Internal & External	Internal Only	-	V2	Porcelain [Bla]
	All Sizes Shown [G]	Internal & External	Internal & External	Yes	V2	Porcelain [Bla]
	All Sizes Shown [E]	Internal & External	Internal & External	Yes	V2	Porcelain [Bla]
Refine Ductile	All Sizes Shown [N]	Internal Only	-	-	V2	Ceramic [BIII]

Floor Values

Finish	Colour	PTV (4S)	PTV (TRL)	R Value	Wet Ramp	PEI	Traffic
[N] Natural	All Colours Shown	Dry 36+ Wet 25 - 35	-	R9	A	-	Commercial
[G] Grip	All Colours Shown	Dry 36+ Wet 36+	Wet 36+	R11	C	-	Commercial
[E] Grip+ 2cm	All Colours Shown	Dry 36+ Wet 36+	Wet 36+	R11	C	-	Commercial

Note: Due to the manufacturing process of all floor tiles there may be small variations in slip resistance. Given this, please refer to our website for the most up-to-date information. The slip resistance properties of a surface can only be maintained with the implementation of an effective regular cleaning and maintenance regime. The frequency of cleaning should be determined by the property manager based on the potential level of surface contaminants. The need for an additional regular cleaning and maintenance regime is further heightened when tiles are used for external floor and wet barefoot applications. CSV, Colour Shade Variation. PTV (4S): Pendulum Test Value - Slider 96. PTV (TRL): Pendulum Test Value - Slider 55. R Value (DIN 51130). Wet Ramp (DIN 51097). PEI: Porcelain Enamel Institute.

Physical Properties - Porcelain [Bla]

Test / Standard	Requirement	Test Result	Test / Standard	Requirement	Test Result
Length / Width EN ISO 10545 - 2	$\pm 0.6\% \leq \pm 2\text{mm}$	Pass	Modulus of Rupture EN ISO 10545 - 4	Min. 35N / mm ²	$\geq 52\text{N} / \text{mm}^2$
Thickness EN ISO 10545 - 2	$\pm 5\% \leq \pm 0.5\text{mm}$	Pass	Thermal Shock EN ISO 10545 - 9	Pass	Pass
Straightness of Side EN ISO 10545 - 2	$\pm 0.5\% \leq \pm 1.5\text{mm}$	Pass	Frost Resistance EN ISO 10545 - 12	Resistant	Resistant
Rectangularity EN ISO 10545 - 2	$\pm 0.5\% \leq \pm 2\text{mm}$	Pass	Chemical Resistance EN ISO 10545 - 13	Min. Class B	Pass
Surface Flatness EN ISO 10545 - 2	$\pm 0.5\% \leq \pm 2\text{mm}$	Pass	Stain Resistance EN ISO 10545 - 14	Min. Class 3	Class 5
Water Absorption EN ISO 10545 - 3	$\leq 0.5\%$	$\leq 0.5\%$	Fire Rating	-	Class A1 Non Combustible
Weight / M²	14.09 kg 6mm thick	21.19 kg 9mm thick			45.85 kg 20mm thick

Physical Properties - Ceramic [BIII] Ductile

Test / Standard	Requirement	Test Result	Test / Standard	Requirement	Test Result
Length / Width EN ISO 10545 - 2	$\pm 0.5\% \leq \pm 2\text{mm}$	Pass	Modulus of Rupture EN ISO 10545 - 4	Min. 15N / mm ²	$\geq 20\text{N} / \text{mm}^2$
Thickness EN ISO 10545 - 2	$\pm 10\% \leq \pm 0.5\text{mm}$	Pass	Thermal Shock EN ISO 10545 - 9	Pass	Pass
Straightness of Side EN ISO 10545 - 2	$\pm 0.3\% \leq \pm 1.5\text{mm}$	Pass	Frost Resistance EN ISO 10545 - 12	-	Not Suitable
Rectangularity EN ISO 10545 - 2	$\pm 0.5\% \leq \pm 2\text{mm}$	Pass	Chemical Resistance EN ISO 10545 - 13	Min. Class B	Pass
Surface Flatness EN ISO 10545 - 2	$\pm 0.5\% \leq \pm 2\text{mm}$	Pass	Stain Resistance EN ISO 10545 - 14	Min. Class 3	Class 5
Water Absorption EN ISO 10545 - 3	10% to 20%	$\geq 10\%$	Fire Rating	-	Class A1 Non Combustible
Weight / M²	10.68 kg 6mm thick Ductile				

Note: All Porcelain [Bla] and Ceramic [BIII] Ductile products listed in this overview conform to BS EN 14411.

Sustainability Information

Range	Material	EPD	Recycled Content of the Tiles	Recycled Content of the Packaging	Recyclable Content of the Packaging
Refine	Porcelain [Bla]	Yes	Up to 30%	Up to 100% (Boxes)	Up to 100% (Boxes)
Refine Ductile	Ceramic [BIII]	Yes	Up to 30%	Up to 100% (Boxes)	Up to 100% (Boxes)

Note: EPD: Environmental Product Declaration for the products shown in this overview can be found on the Refine pages on our website.

Important Information

During the manufacturing process of ceramic, vitrified and porcelain tiles, some variation in shade and pattern can occur. Before fixing any tiles; several boxes should be opened and their contents mixed to ensure that size, colour, shade and patterning are acceptable. The tiles shown are quality products and conform to the physical properties listed below.

- All sizes shown are metric modular.
- For specific suitability and fit-for-purpose details please contact our technical helpline.
- Johnson Tiles cannot accept responsibility for any tiles that have been fixed.
- Every effort has been made to ensure the accuracy of the information given.
- Johnson Tiles reserves the right to change specifications and availability without prior notice.
- Nothing in these statements does or will affect the statutory rights of the consumer.

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Basalt Natural 900x900mm - REF04N



Product Notes

Handwriting practice area with 20 sets of dashed lines on a solid background.

For more information about Refine or any
of our other product ranges simply visit
www.johnson-tiles.com |      

Where To Find Us

Johnson Tiles

Harewood Street,
Tunstall,
Stoke on Trent,
Staffordshire,
ST6 5JZ

Tel: +44 (0)1782 575 575
Fax: +44 (0)1782 577 377
Email: info@johnson-tiles.com

Samples Enquiries

Tel: +44 (0)1782 524 043
Fax: +44 (0)1782 577 379
Email: samples@johnson-tiles.com

Technical Helpline

Tel: +44 (0)1782 524 111
Fax: +44 (0)1782 577 379
Email: techadvice@johnson-tiles.com

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