

Federation

The Federation series consists of 6 different patterns and colour palettes, with a unique blend of geometric shapes. These Spanish made tiles are sure to bring to life the old world charm of traditional tessellated mosaics with the modern practicality of glazed porcelain.

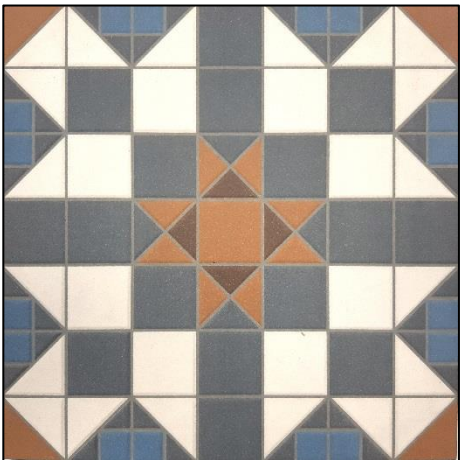


Federation

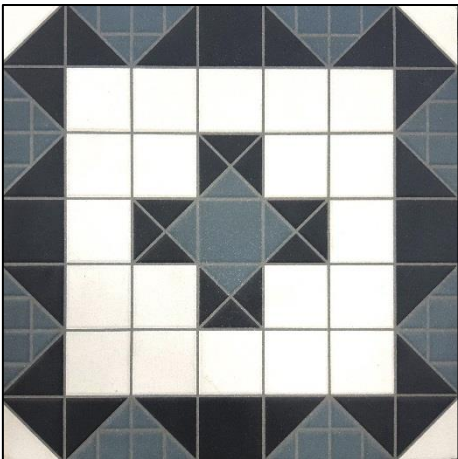
316x316 mm Matt Finish



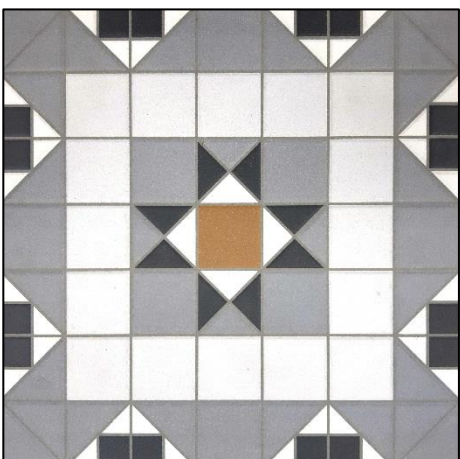
Blakeney



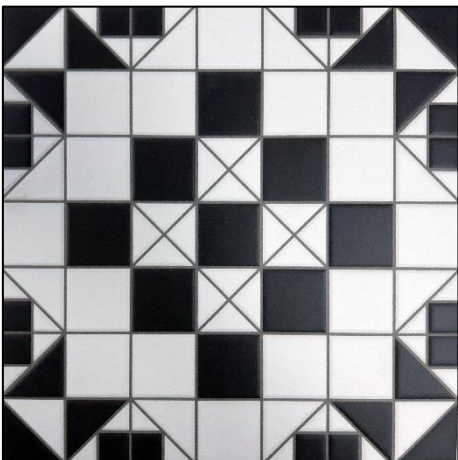
Canterbury



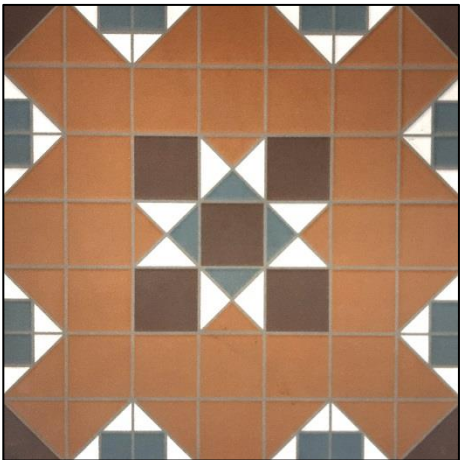
Harrogate



Kendal



Oxford



York

GNS Ceramics recommends that our retail shops pass on the following information to the installer and end-user.



Click or Scan for
Installation Instructions

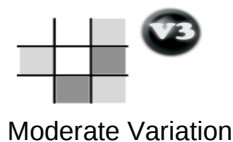
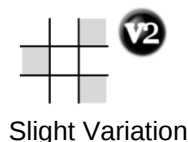
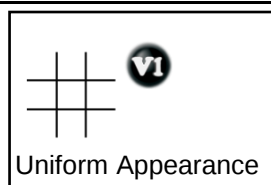
Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility of products, product failure, environmental factors skill and knowledge of the installers etc; the latter being supplied or controlled by a variety of manufacturers and tradesmen. GNS Ceramics has no involvement in the design, selling and installation processes and once goods have been dispatched from our warehouse we have no control over where and how these products are used. As a result the project manager, and or the tiler are the only people in a position to ensure that all the components used in a project are compatible and that the product is installed in accordance with the Australian Building Code and the Australian Standards.

Installation Instructions for all types of tiles can be found in the GNS Ceramics Price List, and on our website. We suggest these are followed at all times.

Cleaning and Maintenance

Do not use abrasive cleaners and chemicals which could permanently scratch and damage the surface of the tile. For daily cleaning we recommend the use of a mild PH Neutral detergent. Should a more vigorous cleaning programme be required we recommend the use of a proprietary tile cleaner from a specialty tile supplier.

Colour & Pattern Variation Guide



Slip Resistance

The best way to minimise the risk of slipping is through safe design principals. This involves a risk management approach which evaluates the likelihood and consequence of an incident to occur. Slip resistive flooring is only one of the design components to consider, other design features should also be considered, including awnings, airlocks, matting and a suitable cleaning regime to reduce the extent of contaminates. Visual aids, warning signs, handrails and lighting, along with the footwear to be worn, should also be considered.

All ceramic tiles can be slippery, particularly when wet. This includes tiles, commonly used in wet areas such as bathrooms. It is important that customers be aware of the potential danger of wet ceramic tiles and seek advice from the retailer as to the level of slip-resistance of any particular tile, and its suitability for the intended application. If there is any doubt, tiles should be tested for slip-resistance immediately after being laid, under the conditions that they will be subject to during use. While tiles may achieve an acceptable standard in a laboratory test, it is quite probable that the performance in-situ will be less than expected, due to installation methods, wear & tear, cleaning regimes and unforeseen circumstances. Test results should therefore to be seen as a relative guide to estimate the merits of one tile versus another and should be used in conjunction with the Australian Building Code and the relevant Australian Standards. Further information on slip resistance is provided in the Australian Standards HB198:2014 - An Introductory guide to the slip resistance of pedestrian surface materials.

There are many factors beyond the control of the supplier that can affect the level of slip-resistance of tiles, or contribute to the incidents of injury through slipping. Consequently, the laboratory test results presented here must not be viewed to mean that GNS Ceramics Pty Ltd, is providing any warranty, nor will accept any liability for personal injury or accidents arising from the selection or installation of tiles under any circumstances.

Classes of Use

The classification has taken into account the recommendations of the Australian Standards; however, they are given for general guidance only. They are valid for the given application under **NORMAL CONDITIONS** and should not be taken to provide accurate product specifications for specific requirements.

WARNING: Other standards and building code requirements may affect your selection of tiles.

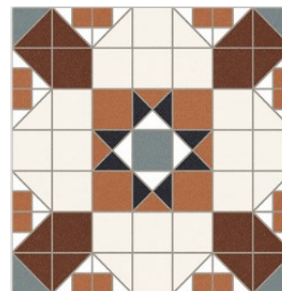
Consideration should be given to the footwear, type of pedestrian traffic and cleaning methods expected. Floors should be adequately protected against soiling from following trades during installation; they should also be protected against scratching dirt at the entrances to building by interposing footwear cleaning devices. For example, mats, shoe scrapers, static devices, etc.

CLASS 4 - Floor coverings that are walked on by regular traffic with some scratching dirt so that conditions are more severe than CLASS 3; For example, entrances, laundries with external access, living areas, entertainment areas, patio's, sales rooms, motels.



BLAKENEY

31'6X31'6



Model:

BLAKENEY

Size: 31'6X31'6 cm

Thickness: 9 mm

Material type: GRES

Technical Characteristics		Reference standard
Manufacture process	Single-firing	Dry pressed ceramic tile
Thickness (mm.)	9	UNE EN ISO 10545 Part 2
Length, width, thickness, side straightness, orthogonality, flatness.	Conforms to the requisites applicable to each model as defined in standard UNE-EN 14411 for Group B Ib	UNE EN ISO 10545 Part 2
Water absorption	0,5 %<E<3%	UNE EN ISO 10545 Part 3
Flexion resistance N/sq. mm. and breaking strength	> 30 > 1100	UNE EN ISO 10545 Part 4
Resistance to surface abrasion (Glazed tiles)	3	UNE EN ISO 10545 Part 7
Lineal thermic dilatation	< 7*10 ⁻⁶ /°C	UNE EN ISO 10545 Part 8
Thermic impact resistance	It stands the test	UNE EN ISO 10545 Part 9
Expansion due to moisture	<0,6%	UNE EN ISO 10545 Part 10
Cracking resistance	It stands the test	UNE EN ISO 10545 Part 11
Resistance to wear by pedestrian traffic	H5	UNE-138001 :2008 IN
Slip resistance	Dry 70 Wet 55	BS 7976-2:2002
	0.68	ANSI A137.1:2012 (DCOF)
	Class C	DIN - 51097
	R10	DIN - 51130

Chemical resistance		
Domestic cleaning products	Type GA	UNE EN ISO 10545 Part 13
Swimming pool salt	Type GA	
Acids and bases (low concentration)	Minimum Type GLB	
Stains resistance	Minimum Type 4	UNE EN ISO 10545 Part 14

IMPORTANT: before fixing tiles, please check the shade, calibre and choice. Claims regarding these items cannot be accepted once the material has been fixed. A minimum joint of 1 to 2 mm is required.

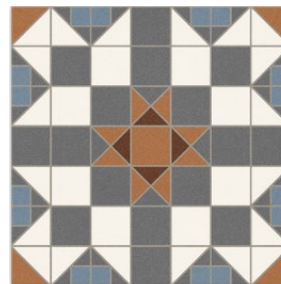
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CANTERBURY

31'6X31'6



Model:

CANTERBURY

Size: 31'6X31'6 cm

Thickness: 9 mm

Material type: GRES

Technical Characteristics		Reference standard
Manufacture process	Single-firing	Dry pressed ceramic tile
Thickness (mm.)	9	UNE EN ISO 10545 Part 2
Length, width, thickness, side straightness, orthogonality, flatness.	Conforms to the requisites applicable to each model as defined in standard UNE-EN 14411 for Group B Ib	UNE EN ISO 10545 Part 2
Water absorption	0,5 % < E < 3%	UNE EN ISO 10545 Part 3
Flexion resistance N/sq. mm. and breaking strength	> 30 > 1100	UNE EN ISO 10545 Part 4
Resistance to surface abrasion (Glazed tiles)	4	UNE EN ISO 10545 Part 7
Lineal thermic dilatation	< $7 \cdot 10^{-6} / ^\circ \text{C}$	UNE EN ISO 10545 Part 8
Thermic impact resistance	It stands the test	UNE EN ISO 10545 Part 9
Expansion due to moisture	< 0,6%	UNE EN ISO 10545 Part 10
Cracking resistance	It stands the test	UNE EN ISO 10545 Part 11
Resistance to wear by pedestrian traffic	H5	UNE-138001 :2008 IN
Slip resistance	Dry 70 Wet 55	BS 7976-2:2002
	0.68	ANSI A137.1:2012 (DCOF)
	Class C	DIN - 51097
	R10	DIN - 51130

Chemical resistance		
Domestic cleaning products	Type GA	UNE EN ISO 10545 Part 13
Swimming pool salt	Type GA	
Acids and bases (low concentration)	Minimum Type GLB	
Stains resistance	Minimum Type 4	UNE EN ISO 10545 Part 14

IMPORTANT: before fixing tiles, please check the shade, calibre and choice. Claims regarding these items cannot be accepted once the material has been fixed. A minimum joint of 1 to 2 mm is required.

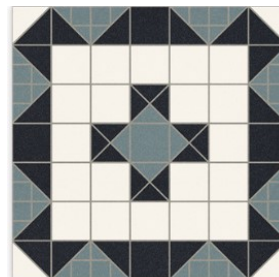
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HARROGATE

31'6X31'6



Model:

HARROGATE

Size: 31'6X31'6 cm

Thickness: 9 mm

Material type: GRES

Technical Characteristics		Reference standard
Manufacture process	Single-firing	Dry pressed ceramic tile
Thickness (mm.)	9	UNE EN ISO 10545 Part 2
Length, width, thickness, side straightness, orthogonality, flatness.	Conforms to the requisites applicable to each model as defined in standard UNE-EN 14411 for Group B Ib	UNE EN ISO 10545 Part 2
Water absorption	0,5 % < E < 3%	UNE EN ISO 10545 Part 3
Flexion resistance N/sq. mm. and breaking strength	> 30 > 1100	UNE EN ISO 10545 Part 4
Resistance to surface abrasion (Glazed tiles)	3	UNE EN ISO 10545 Part 7
Lineal thermic dilatation	< $7 \cdot 10^{-6} / ^\circ \text{C}$	UNE EN ISO 10545 Part 8
Thermic impact resistance	It stands the test	UNE EN ISO 10545 Part 9
Expansion due to moisture	< 0,6%	UNE EN ISO 10545 Part 10
Cracking resistance	It stands the test	UNE EN ISO 10545 Part 11
Resistance to wear by pedestrian traffic	H5	UNE-138001 :2008 IN
Slip resistance	Dry 70 Wet 55	BS 7976-2:2002
	0.68	ANSI A137.1:2012 (DCOF)
	Class C	DIN - 51097
	R10	DIN - 51130

Chemical resistance		
Domestic cleaning products	Type GA	UNE EN ISO 10545 Part 13
Swimming pool salt	Type GA	
Acids and bases (low concentration)	Minimum Type GLB	
Stains resistance	Minimum Type 4	UNE EN ISO 10545 Part 14

IMPORTANT: before fixing tiles, please check the shade, calibre and choice. Claims regarding these items cannot be accepted once the material has been fixed. A minimum joint of 1 to 2 mm is required.

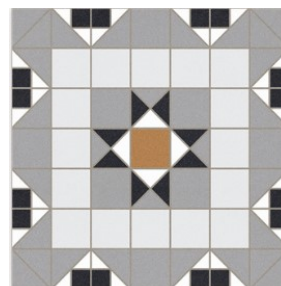
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KENDAL

31'6X31'6



Model:

KENDAL

Size: 31'6X31'6 cm

Thickness: 9 mm

Material type: GRES

Technical Characteristics		Reference standard
Manufacture process	Single-firing	Dry pressed ceramic tile
Thickness (mm.)	9	UNE EN ISO 10545 Part 2
Length, width, thickness, side straightness, orthogonality, flatness.	Conforms to the requisites applicable to each model as defined in standard UNE-EN 14411 for Group B Ib	UNE EN ISO 10545 Part 2
Water absorption	0,5 %<E<3%	UNE EN ISO 10545 Part 3
Flexion resistance N/sq. mm. and breaking strength	> 30 > 1100	UNE EN ISO 10545 Part 4
Resistance to surface abrasion (Glazed tiles)	3	UNE EN ISO 10545 Part 7
Lineal thermic dilatation	< 7*10 ⁻⁶ /°C	UNE EN ISO 10545 Part 8
Thermic impact resistance	It stands the test	UNE EN ISO 10545 Part 9
Expansion due to moisture	<0,6%	UNE EN ISO 10545 Part 10
Cracking resistance	It stands the test	UNE EN ISO 10545 Part 11
Resistance to wear by pedestrian traffic	H5	UNE-138001 :2008 IN
Slip resistance	Dry 70 Wet 55	BS 7976-2:2002
	0.68	ANSI A137.1:2012 (DCOF)
	Class C	DIN - 51097
	R10	DIN - 51130

Chemical resistance		
Domestic cleaning products	Type GA	UNE EN ISO 10545 Part 13
Swimming pool salt	Type GA	
Acids and bases (low concentration)	Minimum Type GLB	
Stains resistance	Minimum Type 4	UNE EN ISO 10545 Part 14

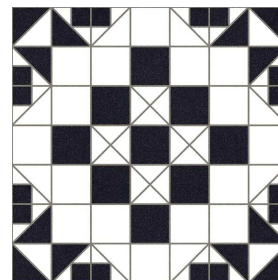
IMPORTANT: before fixing tiles, please check the shade, calibre and choice. Claims regarding these items cannot be accepted once the material has been fixed. A minimum joint of 1 to 2 mm is required.

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OXFORD 31'6X31'6



Model: OXFORD

Size: 31'6X31'6 cm

Thickness: 9 mm

Material type: GRES

Technical Characteristics		Reference standard
Manufacture process	Single-firing	Dry pressed ceramic tile
Thickness (mm.)	9	UNE EN ISO 10545 Part 2
Length, width, thickness, side straightness, orthogonality, flatness.	Conforms to the requisites applicable to each model as defined in standard UNE-EN 14411 for Group B Ib	UNE EN ISO 10545 Part 2
Water absorption	0,5 %<E<3%	UNE EN ISO 10545 Part 3
Flexion resistance N/sq. mm. and breaking strength	> 30 > 1100	UNE EN ISO 10545 Part 4
Resistance to surface abrasion (Glazed tiles)	3	UNE EN ISO 10545 Part 7
Lineal thermic dilatation	< 7*10 ⁻⁶ /°C	UNE EN ISO 10545 Part 8
Thermic impact resistance	It stands the test	UNE EN ISO 10545 Part 9
Expansion due to moisture	<0,6%	UNE EN ISO 10545 Part 10
Cracking resistance	It stands the test	UNE EN ISO 10545 Part 11
Resistance to wear by pedestrian traffic	H4	UNE-138001 :2008 IN
Slip resistance	Dry 70	BS 7976-2:2002
	Wet 55	ANSI A137.1:2012 (DCOF)
	0.68	DIN - 51097
	Class C	DIN - 51130

Chemical resistance		
Domestic cleaning products	Type A	UNE EN ISO 10545 Part 13
Swimming pool salt	Type A	
Acids and bases (low concentration)	Minimum Type LB	
Stains resistance	Minimum Type 4	UNE EN ISO 10545 Part 14

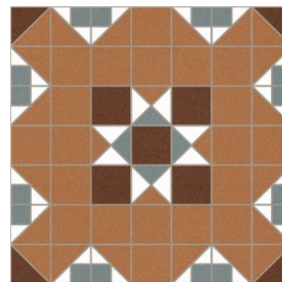
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YORK

31'6X31'6



Model:

YORK

Size: 31'6X31'6 cm

Thickness: 9 mm

Material type: GRES

Technical Characteristics		Reference standard
Manufacture process	Single-firing	Dry pressed ceramic tile
Thickness (mm.)	9	UNE EN ISO 10545 Part 2
Length, width, thickness, side straightness, orthogonality, flatness.	Conforms to the requisites applicable to each model as defined in standard UNE-EN 14411 for Group B Ib	UNE EN ISO 10545 Part 2
Water absorption	0,5 % < E < 3%	UNE EN ISO 10545 Part 3
Flexion resistance N/sq. mm. and breaking strength	> 30 > 1100	UNE EN ISO 10545 Part 4
Resistance to surface abrasion (Glazed tiles)	3	UNE EN ISO 10545 Part 7
Lineal thermic dilatation	< $7 \cdot 10^{-6} / ^\circ \text{C}$	UNE EN ISO 10545 Part 8
Thermic impact resistance	It stands the test	UNE EN ISO 10545 Part 9
Expansion due to moisture	< 0,6%	UNE EN ISO 10545 Part 10
Cracking resistance	It stands the test	UNE EN ISO 10545 Part 11
Resistance to wear by pedestrian traffic	H5	UNE-138001 :2008 IN
Slip resistance	Dry 70 Wet 55	BS 7976-2:2002
	0.68	ANSI A137.1:2012 (DCOF)
	Class C	DIN - 51097
	R10	DIN - 51130

Chemical resistance		
Domestic cleaning products	Type GA	UNE EN ISO 10545 Part 13
Swimming pool salt	Type GA	
Acids and bases (low concentration)	Minimum Type GLB	
Stains resistance	Minimum Type 4	UNE EN ISO 10545 Part 14

IMPORTANT: before fixing tiles, please check the shade, calibre and choice. Claims regarding these items cannot be accepted once the material has been fixed. A minimum joint of 1 to 2 mm is required.

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**GNS Ceramics - Vives Azulejos Gres S.A. - FEDERATION OXFORD GLAZED
PORCELAIN FLOOR TILE - Wet Sliptest - BO181219-9**

18 Dec 2019

Slip Resistance Classification of New Pedestrian Surfaces - AS4586:2013 Appendix A

Date Tested:	18 Dec 2019
Test Report Number:	BO181319-9
Client Name & Address:	GNS Ceramics Pty Ltd - 3 Cox Place GLENDENNING NSW 2761
Test Site / Surface Tested :	Vives Azulejos Gres S.A. - FEDERATION OXFORD GLAZED PORCELAIN FLOOR - MATT TILES 316x316mm
Sample Information :	Samples and Test Information Supplied by Client
Wet Pendulum Test carried out using :	Slider 96 (4S) Rubber slider
Record ambient temperature (°C)	25
Testing Officer :	Blair Ording
Testing Officer :	#0604 - Munro Portable Skid Tester #0604 - 06.02.18
Testing Officer Signatory:	

Test Results :

Sample No.	Swing 1	Swing 2	Swing 3	Swing 4	Swing 5	Mean BPN of last 3 swings :	Surface Picture
1	45	45	45	45	45	45	
2	45	45	45	45	45	45	
3	45	45	45	45	45	45	
4	40	40	40	40	40	40	
5	45	45	45	45	45	45	

Mean BPN Slip Resistance Value (SRV)

44

CLASSIFICATION using Slider 96 (4S Slider)

P3 = 35 - 44

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