ABSOLUTE COLLECTION
CERAMIC, VITRIFIED & PORCELAIN WALL & FLOOR TILES
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ANTIQUE
GLAZED PORCELAIN | WALL & FLOOR TILES

One Size Format
Available Size:
1020x160mm
10.5mm thick

Available Fitting: Skirting

Two Finishes
Available Finishes:
N Natural Finish
G Grip Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Five Colour Options
Available Colours:

▲ Chestnut  Woodgrain Effect

▲ Acorn  Woodgrain Effect

▲ Cedar  Woodgrain Effect

▲ Birch  Woodgrain Effect

▲ Teak  Woodgrain Effect
Availability

1020x160x10.5mm
- ANT01N Chestnut Woodgrain Natural Finish
- ANT02N Acorn Woodgrain Natural Finish
- ANT03N Cedar Woodgrain Natural Finish
- ANT04N Birch Woodgrain Natural Finish
- ANT05N Teak Woodgrain Natural Finish

- ANT01G Chestnut Woodgrain Grip Finish
- ANT02G Acorn Woodgrain Grip Finish
- ANT03G Cedar Woodgrain Grip Finish
- ANT04G Birch Woodgrain Grip Finish
- ANT05G Teak Woodgrain Grip Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com

1020x80x10.5mm Round Top (Skirting)
- ANT01S Chestnut Woodgrain Natural Finish
- ANT02S Acorn Woodgrain Natural Finish
- ANT03S Cedar Woodgrain Natural Finish
- ANT04S Birch Woodgrain Natural Finish
- ANT05S Teak Woodgrain Natural Finish
- ANT015G Chestnut Woodgrain Grip Finish
- ANT025G Acorn Woodgrain Grip Finish
- ANT035G Cedar Woodgrain Grip Finish
- ANT045G Birch Woodgrain Grip Finish
- ANT055G Teak Woodgrain Grip Finish
ARICH
UN-GLAZED PORCELAIN | WALL & FLOOR TILES

Four Size Formats
Available Sizes:

<table>
<thead>
<tr>
<th>Size Format</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>600x600mm</td>
<td>9mm thick</td>
</tr>
<tr>
<td>600x300mm</td>
<td>9mm thick</td>
</tr>
<tr>
<td>450x450mm</td>
<td>9mm thick</td>
</tr>
<tr>
<td>300x300mm</td>
<td>9mm thick</td>
</tr>
</tbody>
</table>

Available Fittings: Skirtings

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>600x95mm Round Top</td>
<td>9mm thick</td>
</tr>
<tr>
<td>450x95mm Round Top</td>
<td>9mm thick</td>
</tr>
<tr>
<td>300x95mm Round Top</td>
<td>9mm thick</td>
</tr>
</tbody>
</table>

One Finish
Available Finish:

N Natural Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Six Colour Options
Available Colours:

- Beige
- Beige
- Beige
- Almond
- Almond
- Almond
- Beige
- Beige
- Almond
- Almond
- Pumice
- Pumice
- Pumice
- Dove
- Dove
- Smoke
- Smoke
- Graphite
- Graphite
- Graphite
Availability

All Sizes
- ARH01N Beige Natural Finish
- ARH02N Almond Natural Finish
- ARH04N Pumice Natural Finish
- ARH06N Dove Natural Finish
- ARH08N Smoke Natural Finish
- ARH09N Graphite Natural Finish

600x300x9mm ONLY
- ARH01T Beige Slate Natural Finish
- ARH02T Almond Slate Natural Finish
- ARH04T Pumice Slate Natural Finish
- ARH06T Dove Slate Natural Finish
- ARH08T Smoke Slate Natural Finish
- ARH09T Graphite Slate Natural Finish

All Fittings
- ARH1NS Beige Natural Finish
- ARH2NS Almond Natural Finish
- ARH4NS Pumice Natural Finish
- ARH6NS Dove Natural Finish
- ARH8NS Smoke Natural Finish
- ARH9NS Graphite Natural Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
ARTISAN
PORCELAIN | WALL & FLOOR TILES

Two Size Formats
Available Sizes:

1800x200mm
9mm thick

1200x200mm
9mm thick

Two Finishes
Available Finishes:

N Natural Finish
G Grip Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Available Mosasics:

Sheet Size: 900x300mm
Tessera Size: 900x50mm
9mm thick

Sheet Size: 300x300mm
Tessera Size: 300x30mm
9mm thick

Available Fittings: Skirtings

1200x50mm Bevel Top
9mm thick

900x50mm Bevel Top
9mm thick

Six Colour Options
Available Colours:

▲ White Oak
Woodgrain Effect

▲ Highland Ash
Woodgrain Effect

▲ Natural Oak
Woodgrain Effect

▲ Hickory
Woodgrain Effect

▲ Aspen
Woodgrain Effect

▲ Walnut
Woodgrain Effect
Availability

All Sizes
- ARN01N  White Oak  Woodgrain  Natural Finish
- ARN02N  Highland Ash  Woodgrain  Natural Finish
- ARN03N  Natural Oak  Woodgrain  Natural Finish
- ARN04N  Hickory  Woodgrain  Natural Finish
- ARN05N  Aspen  Woodgrain  Natural Finish
- ARN06N  Walnut  Woodgrain  Natural Finish

ARN01G  White Oak  Woodgrain  Grip Finish
- ARN02G  Highland Ash  Woodgrain  Grip Finish
- ARN03G  Natural Oak  Woodgrain  Grip Finish
- ARN04G  Hickory  Woodgrain  Grip Finish
- ARN05G  Aspen  Woodgrain  Grip Finish
- ARN06G  Walnut  Woodgrain  Grip Finish

1200x200x9mm ONLY
- ARN01N  White Oak  Woodgrain  Natural Finish
- ARN02N  Highland Ash  Woodgrain  Natural Finish
- ARN03N  Natural Oak  Woodgrain  Natural Finish
- ARN04N  Hickory  Woodgrain  Natural Finish
- ARN05N  Aspen  Woodgrain  Natural Finish
- ARN06N  Walnut  Woodgrain  Natural Finish

All Mosaics
- ARN1NM  White Oak  Woodgrain  Natural Finish
- ARN2NM  Highland Ash  Woodgrain  Natural Finish
- ARN3NM  Natural Oak  Woodgrain  Natural Finish
- ARN4NM  Hickory  Woodgrain  Natural Finish
- ARN5NM  Aspen  Woodgrain  Natural Finish
- ARN6NM  Walnut  Woodgrain  Natural Finish

All Fittings
- ARN1NS  White Oak  Woodgrain  Natural Finish
- ARN2NS  Highland Ash  Woodgrain  Natural Finish
- ARN3NS  Natural Oak  Woodgrain  Natural Finish
- ARN4NS  Hickory  Woodgrain  Natural Finish
- ARN5NS  Aspen  Woodgrain  Natural Finish
- ARN6NS  Walnut  Woodgrain  Natural Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
**AVOIR**

**GLAZED PORCELAIN | WALL & FLOOR TILES**

**Four Size Formats**

Available Sizes:

- **180x180mm**
  - 10mm thick

- **360x360mm**
  - 10mm thick

- **360x90mm**
  - 10mm thick

- **260x225mm Hexagon**
  - 10mm thick

- **360x90mm Square Top**
  - 10mm thick

**One Finish**

Available Finish:

- **N Natural Finish**

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

**Five Colour Options**

Available Colours:

- **Bone**
- **Beige**
- **Bone Mix**
- **Beige Mix**
- **Cement**
- **Cement Mix**
- **Smoke**
- **Smoke Mix**
- **Graphite**
- **Graphite Mix**
Availability

All Sizes
- AVR01N Bone Natural Finish
- AVR02N Beige Natural Finish
- AVR03N Cement Natural Finish
- AVR04N Smoke Natural Finish
- AVR05N Graphite Natural Finish

260x225x10mm Hexagon ONLY
- AVR01D Bone Mix Natural Finish
- AVR02D Beige Mix Natural Finish
- AVR03D Cement Mix Natural Finish
- AVR04D Smoke Mix Natural Finish
- AVR05D Graphite Mix Natural Finish

410x195x10mm [90mm ø Circles Mosaic]
- AVR1NM Bone Natural Finish
- AVR2NM Beige Natural Finish
- AVR3NM Graphite Natural Finish

360x90x10mm Square Top [Skirting]
- AVR1NS Bone Natural Finish
- AVR2NS Beige Natural Finish
- AVR3NS Cement Natural Finish
- AVR4NS Smoke Natural Finish
- AVR5NS Graphite Natural Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
BAKER STREET
GLAZED CERAMIC | WALL TILES

One Size Format
Available Size:

300x75mm
9mm thick

One Finish
Available Finish:

G Gloss Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Five Colour Options
Available Colours:

▲ Chalk
▲ Magnolia
▲ Sand
▲ Silver Mist
▲ Cobblestone
Availability

300x75x9mm
- BAK01A Chalk Gloss Finish
- BAK02A Magnolia Gloss Finish
- BAK03A Sand Gloss Finish
- BAK04A Silver Mist Gloss Finish
- BAK06A Cobblestone Gloss Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
**BASELINE**
PORCELAIN | WALL & FLOOR TILES

### Four Size Formats

**Available Sizes:**
- 900x900mm 9mm thick
- 900x450mm 9mm thick

**Additional Shapes:**
Diamond, Hexagon and Trapezium shapes are also available in the 900x900mm size format.

- Sheet Size: 450x300mm, Tessera Size: 100x20mm Spike
- Sheet Size: 300x300mm, Tessera Size: 40x35mm Hex
- Sheet Size: 300x300mm, Tessera Size: 33x33mm

### One Finish

**Available Finish:**
- Natural Finish

**N.B.** For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

### Six Colour Options

**Available Colours:**
- Powder
- Biscuit
- Dove
- Fossil
- Smoke
- Shadow

**Available Fittings:**
- 900x50mm Bevel Top 9mm thick
- 600x50mm Bevel Top 9mm thick
Availability

All Sizes & Additional Shapes
- BAS01N Powder Natural Finish
- BAS02N Biscuit Natural Finish
- BAS03N Dove Natural Finish
- BAS04N Fossil Natural Finish
- BAS05N Smoke Natural Finish
- BAS06N Shadow Natural Finish

All Mosaics
- BAS1NM Powder Natural Finish
- BAS2NM Biscuit Natural Finish
- BAS3NM Dove Natural Finish
- BAS4NM Fossil Natural Finish
- BAS5NM Smoke Natural Finish
- BAS6NM Shadow Natural Finish

All Fittings
- BAS1NS Powder Natural Finish
- BAS2NS Biscuit Natural Finish
- BAS3NS Dove Natural Finish
- BAS4NS Fossil Natural Finish
- BAS5NS Smoke Natural Finish
- BAS6NS Shadow Natural Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
**BRICS**

**GLAZED PORCELAIN | WALL & FLOOR TILES**

### One Size Format

**Available Size:**

- 250x60mm
  - 10mm thick

### One Finish

**Available Finish:**

- Natural Finish

**N.B.** For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

### Six Colour Options

**Available Colours:**

- **Montmartre White**
  - Brick Effect

- **Noho Red Blend**
  - Brick Effect

- **Tokyo Red**
  - Brick Effect

- **Octavia Beige**
  - Brick Effect

- **Brooklyn Brown**
  - Brick Effect

- **Docklands Grey**
  - Brick Effect
Availability

250x60x10mm
- BR101N Montmartre White Brick Natural Finish
- BR102N Noho Red Blend Brick Natural Finish
- BR103N Tokyo Red Brick Natural Finish
- BR104N Octavia Beige Brick Natural Finish
- BR105N Brooklyn Brown Brick Natural Finish
- BR106N Docklands Grey Brick Natural Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
BUCKINGHAM
GLAZED PORCELAIN | WALL & FLOOR TILES

Five Size Formats
Available Sizes:

- 900x450mm 9mm thick
- 600x300mm 9mm thick
- 600x600mm 9mm thick
- 900x900mm 9mm thick
- 1200x1200mm 9mm thick

One Finish
Available Finish:

- Soft Bush Hammered Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Four Colour Options
Available Colours:

- Beige
- Light Grey
- Grey
- Anthracite
Availability

All Sizes
- BUCK1B Beige Soft Bush Hammered Finish
- BUCK2B Light Grey Soft Bush Hammered Finish
- BUCK3B Grey Soft Bush Hammered Finish
- BUCK4B Anthracite Soft Bush Hammered Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
**CENTAURUS**

UN-GLAZED PORCELAIN | WALL & FLOOR TILES

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### Five Size Formats

**Available Sizes:**

- 600x600mm 10mm thick
- 600x300mm 10mm thick

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### Four Finishes

**Available Finishes:**

- Natural Finish (N)
- Polished Finish (P)
- Grip Finish (G)
- Bush Hammered Finish (B)

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**N.B.** For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

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### Five Colour Options

**Available Colours:**

- Bone
- Dove
- Wheat
- Slate
- Graphite

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**Scoring:**

- Bone
- Dove
- Wheat
- Slate
- Graphite

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**Available Fittings:** Skirtings

- 300x90mm Round Top 10mm thick
- 600x90mm Round Top 10mm thick
- 600x90mm Square Top 10mm thick
- 800x90mm Square Top 10mm thick

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**Available Mosaics:**

- Sheet Size: 300x300mm
- Tessera Size: 100x100mm 11mm thick
- Sheet Size: 300x300mm
- Tessera Size: 25x25mm 11mm thick
Availability

All Sizes
- CEN01N Graphite Natural Finish
- CEN02N Slate Natural Finish
- CEN03N Bone Natural Finish
- CEN04N Wheat Natural Finish

600x300x10mm ONLY
- CEN01P Graphite Polished Finish
- CEN02P Slate Polished Finish
- CEN03P Bone Polished Finish
- CEN04P Wheat Polished Finish

600x11mm, 600x300x10mm, & 100x100mm ONLY
- CEN01B Graphite Bush Hammered Finish
- CEN02B Slate Bush Hammered Finish
- CEN03B Bone Bush Hammered Finish
- CEN04B Wheat Bush Hammered Finish

All Mosaics
- CEN1NM Graphite Natural Finish
- CEN2NM Slate Natural Finish
- CEN3NM Bone Natural Finish
- CEN4NM Wheat Natural Finish
- CEN6NM Dove Natural Finish

All Round Top Skirtings ONLY
- CEN1PS Graphite Polished Finish
- CEN2PS Slate Polished Finish
- CEN3PS Bone Polished Finish
- CEN4PS Wheat Polished Finish
- CEN6PS Wheat Polished Finish

All Square Top Skirtings ONLY
- CEN1NS Graphite Natural Finish
- CEN1NS Slate Natural Finish
- CEN1NS Bone Natural Finish
- CEN1NS Wheat Natural Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
CONGLOMERATES
UN-GLAZED PORCELAIN | WALL & FLOOR TILES

Three Size Formats
Available Sizes:
- 600x600mm
  - 10.5mm thick
- 1200x1200mm
  - 10.5mm thick
- 1200x600mm
  - 10.5mm thick

Three Finishes
Available Finishes:
- N: Natural Finish
- P: Polished Finish
- G: Grip Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Six Colour Options
Available Colours:
- White
- Almond
- Beige
- Silver
- Grey
- Dark Grey
Availability

All Sizes
- CON01N White Natural Finish
- CON02N Almond Natural Finish
- CON03N Silver Natural Finish
- CON04N Beige Natural Finish
- CON05N Dark Grey Natural Finish
- CON06N Grey Natural Finish
- CON01P White Polished Finish
- CON02P Almond Polished Finish
- CON03P Silver Polished Finish
- CON04P Beige Polished Finish
- CON05P Dark Grey Polished Finish
- CON06P Grey Polished Finish
- CON01G White Grip Finish
- CON02G Almond Grip Finish
- CON03G Silver Grip Finish
- CON04G Beige Grip Finish
- CON05G Dark Grey Grip Finish
- CON06G Grey Grip Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
**DISTRICT**

**PORCELAIN | WALL & FLOOR TILES**

### Five Size Formats

**Available Sizes:**

- **600x300mm**
  - 9mm thick
- **600x100mm**
  - 9mm thick
- **900x900mm**
  - 9mm thick
- **900x450mm**
  - 9mm thick

### Two Finishes

**Available Finishes:**

- **N** Natural Finish
- **G** Grip Finish

**N.B.** For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

### Available Mosiacs:

#### Sheet Size: 300x300mm

- Tessera Size: 150x30mm
  - 9mm thick

#### Sheet Size: 300x300mm

- Tessera Size: 50x30mm
  - 9mm thick

#### Sheet Size: 300x300mm

- Tessera Size: Mixed Strips
  - 9mm thick

### Available Fittings: Skirtings

- **900x50mm Bevel Top**
  - 9mm thick
- **600x50mm Bevel Top**
  - 9mm thick

### Four Colour Options

**Available Colours:**

- **Stone White**
- **Ash**
- **Tarnished Silver**
- **Anthracite**
Availability

All Sizes
- DIS01N Stone White Natural Finish
- DIS02N Ash Natural Finish
- DIS03N Tarnished Silver Natural Finish
- DIS04N Anthracite Natural Finish

All Mosaics
- DIS1NM Stone White Natural Finish
- DIS2NM Ash Natural Finish
- DIS3NM Tarnished Silver Natural Finish
- DIS4NM Anthracite Natural Finish

All Fittings
- DIS1NS Stone White Natural Finish
- DIS2NS Ash Natural Finish
- DIS3NS Tarnished Silver Natural Finish
- DIS4NS Anthracite Natural Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com

900x900x9mm, 600x600x9mm, 600x300x9mm & 600x100x9mm ONLY
- DIS01G Stone White Natural Finish
- DIS02G Ash Natural Finish
- DIS03G Tarnished Silver Natural Finish
- DIS04G Anthracite Natural Finish
FLARE
GLAZED CERAMIC | WALL TILES

One Size Format
Available Size:
1200x400mm
1.25mm thick

Two Finishes
Available Finishes:
G Gloss Finish
S Satin Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Three Colour Options
Available Colours:
△ Simply White  △ Eggshell  △ Linen
Availability

1200x400x12.5mm
- FLA01G Simply White Gloss Finish
- FLA01S Simply White Satin Finish
- FLA02G Eggshell Gloss Finish
- FLA03G Linen Gloss Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
HEX25
GLAZED PORCELAIN | WALL & FLOOR TILES

One Size Format
Available Size:
250x220mm Hexagon
10mm thick

Two Finishes
Available Finishes:
N Natural Finish
A Antislip Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Twenty-Two Colour Options
Available Colours:
- Black
- Grey
- Silver
- White
- Blue
- Aqua
- Kale
- Moss
- Forest
- Cotton
- Mid Blue
- Red
- Dandelion
- Rose
- Trident
- Atom White
- Fantasy Mix
- Delta Blue
- Delta Green
- Kasbah Mix
Availability

250x220x10mm Hexagon

- HEX01F Black Natural Finish
- HEX02F Grey Natural Finish
- HEX03F Silver Natural Finish
- HEX04F White Natural Finish
- HEX05F Blue Natural Finish
- HEX06F Aqua Natural Finish
- HEX07F Kale Natural Finish
- HEX08F Forest Natural Finish
- HEX09F Moss Natural Finish
- HEX10F Cotton Natural Finish
- HEX11F Mid Blue Natural Finish
- HEX12F Red Natural Finish
- HEX13F Dandelion Natural Finish
- HEX14F Nude Natural Finish
- HEX15F Rose Natural Finish
- HEX16F Aster Blanco Natural Finish
- HEX17F Trident Blanco Natural Finish
- HEX18F Atom White Natural Finish
- HEX19F Fantasy Mix Natural Finish
- HEX20F Delta Blue Natural Finish
- HEX21F Delta Green Natural Finish
- HEX22F Kasbah Mix Natural Finish
- HEX01A Black Antislip Finish
- HEX03A Silver Antislip Finish
- HEX04A White Antislip Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
LOFT
GLAZED PORCELAIN | WALL & FLOOR TILES

One Size Format
Available Size:

280x70mm
8mm thick

One Finish
Available Finish:

Natural Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

One Colour Option
Available Colour:

▲ Beige Mix
Availability

280x70x8mm
- LOF01N Beige Mix Natural Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
**MINERALS**

**PORCELAIN & GLAZED CERAMIC | WALL & FLOOR TILES**

### Ten Size Formats

**Available Sizes:**

- 2700x900mm
- 2600x1200mm
- 1200x1200mm
- 600x600mm
- 900x900mm
- 900x450mm
- 900x300mm
- 600x600mm
- 600x500mm
- 600x100mm

**Available Fittings:**

- Skirtings: 900x50mm Bevel Top, 600x50mm Bevel Top
- Sheet Size: 300x300mm
- Tessera Size: 150x30mm
- 9mm thick

### Three Finishes

**Available Finishes:**

- N: Natural Finish
- G: Grip Finish
- B: Bush Hammered Finish

**N.B.** For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

### Available Mosaics

**Sheet Size:** 300x300mm
**Tessera Size:** 50x50mm
**Tessera Size:** Mixed Strips

**Sheet Size:** 300x300mm
**Tessera Size:** 150x30mm

**Sheet Size:** 300x300mm
**Tessera Size:** 50x50mm

### Five Colour Options

**Available Colours:**

- Chalk
- Dolomite
- Limestone
- Flint
- Slate

- Chalk Dots Effect
- Dolomite Dots Effect
- Limestone Dots Effect
- Flint Dots Effect

- Chalk Linear Effect
- Dolomite Linear Effect
- Limestone Linear Effect
- Flint Linear Effect

- Chalk Hexagons Effect
- Dolomite Hexagons Effect
- Limestone Hexagons Effect
- Flint Hexagons Effect
### Availability

#### All Sizes
- MIN01N Chalk Natural Finish
- MIN02N Dolomite Natural Finish
- MIN03N Limestone Natural Finish
- MIN04N Flint Natural Finish
- MIN05N Slate Natural Finish

#### 900x300x11mm ONLY
- MIN01G Chalk Grip Finish
- MIN02G Dolomite Grip Finish
- MIN03G Limestone Grip Finish
- MIN04G Flint Grip Finish
- MIN05G Slate Grip Finish

#### All Mosaics
- MIN01M Chalk Natural Finish
- MIN02M Dolomite Natural Finish
- MIN03M Limestone Natural Finish
- MIN04M Flint Natural Finish
- MIN05M Slate Natural Finish

#### 900x600x9mm, 600x300x9mm, 600x100x9mm & 600x50x9mm ONLY
- MIN01H Chalk Hexagons Natural Finish
- MIN02H Dolomite Hexagons Natural Finish
- MIN03H Limestone Hexagons Natural Finish
- MIN04H Flint Hexagons Natural Finish
- MIN05H Slate Hexagons Natural Finish

N.B For the most up-to-date availability information, please visit our website - [www.johnson-tiles.com](http://www.johnson-tiles.com)
MODE
UN-GLAZED PORCELAIN | WALL & FLOOR TILES

Five Size Formats
Available Sizes:

- **600x600mm**
  - 10.5mm thick
  - 11mm thick
- **600x300mm**
  - 10.5mm thick
  - 11mm thick

Three Finishes
Available Finishes:

- **N** Natural Finish
- **P** Polished Finish
- **B** Bush Hammered Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Eight Colour Options
Available Colours:

- Cotton
- Sable
- Straw
- Sepia
- Pebble
- Mink
- Nimbus
- Coal
Availability

All Sizes [11mm thick] ONLY
- MOD01N Cotton Natural Finish
- MOD02N Sable Natural Finish
- MOD03N Straw Natural Finish
- MOD04N Sepia Natural Finish
- MOD05N Pebble Natural Finish
- MOD06N Mink Natural Finish
- MOD07N Nimbus Natural Finish
- MOD08N Coal Natural Finish

600x600x10.5mm & 600x300x10.5mm ONLY
- MOD01B Cotton Bush Hammered Finish
- MOD02B Sable Bush Hammered Finish
- MOD03B Straw Bush Hammered Finish
- MOD04B Sepia Bush Hammered Finish
- MOD05B Pebble Bush Hammered Finish
- MOD06B Mink Bush Hammered Finish
- MOD07B Nimbus Bush Hammered Finish
- MOD08B Coal Bush Hammered Finish

300x300x1 [75x25mm Mosaic]
- MOD1MM Cotton Mixed Natural/Polished/Bush Hammered Finish
- MOD2MM Sable Mixed Natural/Polished/Bush Hammered Finish
- MOD3MM Straw Mixed Natural/Polished/Bush Hammered Finish
- MOD4MM Sepia Mixed Natural/Polished/Bush Hammered Finish
- MOD5MM Pebble Mixed Natural/Polished/Bush Hammered Finish
- MOD6MM Mink Mixed Natural/Polished/Bush Hammered Finish
- MOD7MM Nimbus Mixed Natural/Polished/Bush Hammered Finish
- MOD8MM Coal Mixed Natural/Polished/Bush Hammered Finish

300x300x1 [45x45mm Mosaic]
- MOD1MS Cotton Mixed Natural/Polished/Bush Hammered Finish
- MOD2MS Sable Mixed Natural/Polished/Bush Hammered Finish
- MOD3MS Straw Mixed Natural/Polished/Bush Hammered Finish
- MOD4MS Sepia Mixed Natural/Polished/Bush Hammered Finish
- MOD5MS Pebble Mixed Natural/Polished/Bush Hammered Finish
- MOD6MS Mink Mixed Natural/Polished/Bush Hammered Finish
- MOD7MS Nimbus Mixed Natural/Polished/Bush Hammered Finish
- MOD8MS Coal Mixed Natural/Polished/Bush Hammered Finish

300x300x1 [45x45mm Mosaic]
- MOD1BS Cotton Bush Hammered Finish
- MOD2BS Sable Bush Hammered Finish
- MOD3BS Straw Bush Hammered Finish
- MOD4BS Sepia Bush Hammered Finish
- MOD5BS Pebble Bush Hammered Finish
- MOD6BS Mink Bush Hammered Finish
- MOD7BS Nimbus Bush Hammered Finish
- MOD8BS Coal Bush Hammered Finish

600x100x1 [Skirting]
- MOD1NS Cotton Natural Finish
- MOD2NS Sable Natural Finish
- MOD3NS Straw Natural Finish
- MOD4NS Sepia Natural Finish
- MOD5NS Pebble Natural Finish
- MOD6NS Mink Natural Finish
- MOD7NS Nimbus Natural Finish
- MOD8NS Coal Natural Finish

600x100x1 [Skirting]
- MOD1PS Cotton Polished Finish
- MOD2PS Sable Polished Finish
- MOD3PS Straw Polished Finish
- MOD4PS Sepia Polished Finish
- MOD5PS Pebble Polished Finish
- MOD6PS Mink Polished Finish
- MOD7PS Nimbus Polished Finish
- MOD8PS Coal Polished Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
OXIDE
GLAZED PORCELAIN | WALL & FLOOR TILES

Three Size Formats
Available Sizes:

- 900x900mm 10.5mm thick
- 900x295mm 10.5mm thick
- 600x600mm 10.5mm thick

One Finish
Available Finish:

Natural Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Three Colour Options
Available Colours:

- Bronze
- Dark Grey
- Light Grey
Availability

All Sizes
- OXI01N Bronze Natural Finish
- OXI02N Dark Grey Natural Finish
- OXI03N Light Grey Natural Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
POOLS
GLAZED PORCELAIN | WALL & FLOOR TILES

Two Size Formats
Available Sizes:

- 250x62mm [Ref. 052]
  8mm thick

- 250x125mm [Ref. 122]
  8mm thick

N.B. Co-ordinating Pools fittings are also available, please visit www.johnson-tiles.com/catalog/range/pools for more details.

Two Finishes
Available Finishes:

- S Smooth Finish
- A Antislip Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Thirteen Colour Options
Available Colours:

- White
- Azure
- Marine
- Prussian Blue
- Ultra Marine
- Cream
- Lime
- Olive
- Red
- Yellow
- Steel
- Black
- Caramel
Availability

All Sizes
- Ref. 122 AP845N White Smooth Finish
- Ref. 122 AP841N Azure Smooth Finish
- Ref. 122 AP843N Marine Smooth Finish
- Ref. 122 AP074N Prussian Blue Smooth Finish
- Ref. 122 AP075N Ultra Marine Smooth Finish
- Ref. 122 AP072N Cream Smooth Finish
- Ref. 122 AP070N Lime Smooth Finish

250x125x8mm ONLY
- Ref. 122 AP850A Steel Antislip Finish
- Ref. 122 AP853A Caramel Antislip Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
**REFINE**

**PORCELAIN | WALL & FLOOR TILES**

### Five Size Formats
Available Sizes:

- **600x300mm** 9mm thick
- **600x100mm** 9mm thick
- **900x900mm** 9mm thick
- **900x450mm** 9mm thick

### Two Finishes
Available Finishes:

- **N** Natural Finish
- **G** Grip Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

### Available Fittings: Skirtings

- **900x50mm Bevel Top** 9mm thick
- **600x50mm Bevel Top** 9mm thick

### Available Mosaics:

- **Sheet Size: 300x300mm**
  - **Tessera Size: 150x30mm** 9mm thick
- **Sheet Size: 300x300mm**
  - **Tessera Size: 50x50mm** 9mm thick
- **Sheet Size: 300x300mm**
  - **Tessera Size: Mixed Strips** 9mm thick

### Four Colour Options
Available Colours:

- **Dune**
- **Pewter**
- **Lavastone**
- **Basalt**
Availability

**All Sizes**
- REF01N Dune Natural Finish
- REF02N Pewter Natural Finish
- REF03N Lavastone Natural Finish
- REF04N Basalt Natural Finish

**All Sizes EXCEPT 900x450x9mm**
- REF01G Dune Grip Finish
- REF02G Pewter Grip Finish
- REF03G Lavastone Grip Finish
- REF04G Basalt Grip Finish

**All Mosaics**
- REF1NM Dune Natural Finish
- REF2NM Pewter Natural Finish
- REF3NM Lavastone Natural Finish
- REF4NM Basalt Natural Finish

**All Fittings**
- REF1NS Dune Natural Finish
- REF2NS Pewter Natural Finish
- REF3NS Lavastone Natural Finish
- REF4NS Basalt Natural Finish

* N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
SOHO
GLAZED VITRIFIED | WALL TILES

One Size Format
Available Size:

One Finish
Available Finish:

Matt Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

90x90mm
8mm thick

Nine Colour Options
Available Colours:

White
Beige
Beige Diamond Décor
Grey
Grey Tulip Décor
Blue
Blue Square Décor
Blue Cube Décor
Blue Circles Décor
Availability

140x140x8mm

- SOH01A White Matt Finish
- SOH02A Beige Matt Finish
- SOH02C Beige Diamond Décor Matt Finish
- SOH03A Grey Matt Finish
- SOH03B Grey Tulip Décor Matt Finish
- SOH04A Blue Matt Finish
- SOH04B Blue Square Décor Matt Finish
- SOH04C Blue Cube Décor Matt Finish
- SOH04D Blue Circles Décor Matt Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
STRANDS
PORCELAIN | WALL & FLOOR TILES

Four Size Formats
Available Sizes:

- 800x800mm 7.5mm thick
- 600x600mm 7.5mm thick
- 600x300mm 7.5mm thick
- 1200x600mm 7.5mm thick

Two Finishes
Available Finishes:
- N Natural Finish
- P Polished Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Thirteen Colour Options
Available Colours:

- Calacatta Marble
- Carrara Marble
- Veneto Marble
- White Quartz
- Onyx Marble
- Zinc Granite
- Silver Granite
- Gold Granite
- Lime Stone
- Soap Stone
- Earth Stone
- Rosa Quartz
- Grey Quartz
Availability

1200x600x7.5mm & 800x800x7.5mm ONLY
- STR01N Silver Granite Natural Finish
- STR02N Earth Stone Natural Finish
- STR03N Calacatta Marble Natural Finish
- STR04N Gold Granite Natural Finish
- STR05N Carrara Marble Natural Finish
- STR06N Veneto Marble Natural Finish
- STR07N Lime Stone Natural Finish
- STR08N White Quartz Natural Finish
- STR09N Grey Quartz Natural Finish
- STR10N Rosa Granite Natural Finish
- STR11N Onyx Marble Natural Finish
- STR12N Zinc Granite Natural Finish
- STR13N Soap Stone Natural Finish

- STR01P Silver Granite Polished Finish
- STR02P Earth Stone Polished Finish
- STR03P Calacatta Marble Polished Finish
- STR04P Gold Granite Polished Finish
- STR05P Carrara Marble Polished Finish
- STR06P Veneto Marble Polished Finish
- STR07P Lime Stone Polished Finish
- STR08P White Quartz Polished Finish
- STR09P Grey Quartz Polished Finish
- STR10P Rosa Granite Polished Finish
- STR11P Onyx Marble Polished Finish
- STR12P Zinc Granite Polished Finish
- STR13P Soap Stone Polished Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
SUBWAY LAB
GLAZED CERAMIC | WALL TILES

Two Size Formats
Available Sizes:

150x75mm Liso M 8mm thick
150x75mm Canale M 8mm thick
150x75mm Peak 8mm thick
150x75mm Delta M 8mm thick
300x75mm Liso XL 8mm thick
300x75mm Dome 8mm thick
300x75mm New Bevel 8mm thick
300x75mm Delta XL 8mm thick
300x75mm Arch XL 8mm thick

Two Finishes
Available Finishes:
G Gloss Finish
M Matt Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Seven Colour Options
Available Colours:

▲ Ice White
▲ Natural
▲ Cotton
▲ Earth
▲ Pearl
▲ Ash Grey
▲ Graphite
Availability

### 150x75x8mm Liso M & 300x75x8mm Liso XL
- SUB01L Ash Grey Gloss Finish
- SUB03L Cotton Gloss Finish
- SUB04L Earth Gloss Finish
- SUB06L Graphite Gloss Finish
- SUB08L Ice White Gloss Finish
- SUB10L Natural Gloss Finish
- SUB12L Pearl Gloss Finish
- SUB02L Ash Grey Matt Finish
- SUB05L Earth Matt Finish
- SUB07L Graphite Matt Finish
- SUB09L Ice White Matt Finish
- SUB11L Natural Matt Finish

### 150x75x8mm Canale M
- SUB02C Ash Grey Matt Finish
- SUB05C Earth Matt Finish
- SUB07C Graphite Matt Finish
- SUB09C Ice White Matt Finish
- SUB11C Natural Matt Finish

### 150x75x8mm Delta M & 300x75x8mm Delta XL
- SUB01D Ash Grey Gloss Finish
- SUB03D Cotton Gloss Finish
- SUB04D Earth Gloss Finish
- SUB06D Graphite Gloss Finish
- SUB08D Ice White Gloss Finish
- SUB10D Natural Gloss Finish
- SUB12D Pearl Gloss Finish
- SUB02D Ash Grey Matt Finish
- SUB05D Earth Matt Finish
- SUB07D Graphite Matt Finish
- SUB09D Ice White Matt Finish
- SUB11D Natural Matt Finish

### 150x75x8mm Peak
- SUB01P Ash Grey Gloss Finish
- SUB03P Cotton Gloss Finish
- SUB04P Earth Gloss Finish
- SUB06P Graphite Gloss Finish
- SUB08P Ice White Gloss Finish
- SUB10P Natural Gloss Finish
- SUB12P Pearl Gloss Finish
- SUB02P Ash Grey Matt Finish
- SUB05P Earth Matt Finish
- SUB07P Graphite Matt Finish
- SUB09P Ice White Matt Finish
- SUB11P Natural Matt Finish

### 300x75x8mm Dome
- SUB01O Ash Grey Gloss Finish
- SUB03O Cotton Gloss Finish
- SUB04O Earth Gloss Finish
- SUB06O Graphite Gloss Finish
- SUB08O Ice White Gloss Finish
- SUB10O Natural Gloss Finish
- SUB12O Pearl Gloss Finish
- SUB02O Ash Grey Matt Finish
- SUB05O Earth Matt Finish
- SUB07O Graphite Matt Finish
- SUB09O Ice White Matt Finish
- SUB11O Natural Matt Finish

### 300x75x8mm New Bevel
- SUB01B Ash Grey Gloss Finish
- SUB03B Cotton Gloss Finish
- SUB04B Earth Gloss Finish
- SUB06B Graphite Gloss Finish
- SUB08B Ice White Gloss Finish
- SUB10B Natural Gloss Finish
- SUB12B Pearl Gloss Finish
- SUB02B Ash Grey Matt Finish
- SUB05B Earth Matt Finish
- SUB07B Graphite Matt Finish
- SUB09B Ice White Matt Finish
- SUB11B Natural Matt Finish

### All Fittings
- SUB01E Ash Grey Gloss Finish
- SUB03E Cotton Gloss Finish
- SUB04E Earth Gloss Finish
- SUB06E Graphite Gloss Finish
- SUB08E Ice White Gloss Finish
- SUB10E Natural Gloss Finish
- SUB12E Pearl Gloss Finish
- SUB02E Ash Grey Matt Finish
- SUB05E Earth Matt Finish
- SUB07E Graphite Matt Finish
- SUB09E Ice White Matt Finish
- SUB11E Natural Matt Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
SYMMETRY
GLAZED CERAMIC | WALL TILES

One Size Format
Available Size:

150x135mm Scales
10mm thick

One Finish
Available Finish:
G Gloss Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Four Colour Options
Available Colours:

- White
- Cream
- Flame
- Raspberry
- Jade
- Leaf
- Storm
- Harebell
- Cloud
- Zinc
- Midnight
- Black
Availability

150x135x10mm Scales

- SYM01A White Gloss Finish
- SYM02A Cream Gloss Finish
- SYM03A Flame Gloss Finish
- SYM04A Raspberry Gloss Finish
- SYM05A Jade Gloss Finish
- SYM06A Leaf Gloss Finish
- SYM07A Storm Gloss Finish
- SYM08A Harebell Gloss Finish
- SYM09A Cloud Gloss Finish
- SYM10A Zinc Gloss Finish
- SYM11A Midnight Gloss Finish
- SYM12A Black Gloss Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
TETRA
UN-GLAZED PORCELAIN | WALL & FLOOR TILES

Seven Size Formats

Available Sizes:

- 600x300mm 10mm thick
- 800x400mm 11mm thick
- 600x600mm 11mm thick
- 800x200mm 11mm thick
- 600x100mm 10mm thick
- 800x100mm 11mm thick
- 600x100mm 10mm thick

Three Finishes

Available Finishes:

- N Natural Finish
- L Lapato Finish
- G Grip Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.

Five Colour Options

Available Colours:

- Ivory
- Putty
- Dove
- Slate
- Graphite

Available Décors:

- 800x200mm Wave 11mm thick
- 600x100mm Wave 10mm thick

Available Mosaics:

- Sheet Size: 300x300mm Tessera Size: 100x20mm 11mm thick
- Sheet Size: 300x300mm 11mm thick
- Sheet Size: Mixed Strips 11mm thick
Availability

All Sizes
- TET01N Ivory Natural Finish
- TET02N Putty Natural Finish
- TET03N Dove Natural Finish
- TET04N Slate Natural Finish
- TET05N Graphite Natural Finish
- TET01L Ivory Lapato Finish
- TET02L Putty Lapato Finish
- TET03L Dove Lapato Finish
- TET04L Slate Lapato Finish
- TET05L Graphite Lapato Finish

800x400x11mm ONLY
- TET01D Ivory City Streets Lapato Finish
- TET02D Putty City Streets Lapato Finish
- TET03D Dove City Streets Lapato Finish
- TET04D Slate City Streets Lapato Finish
- TET05D Graphite City Streets Lapato Finish

All Decors
- TET1NW Ivory Natural Finish
- TET2NW Putty Natural Finish
- TET3NW Dove Natural Finish
- TET4NW Slate Natural Finish
- TET5NW Graphite Natural Finish
- TET1LW Ivory Lapato Finish
- TET2LW Putty Lapato Finish
- TET3LW Dove Lapato Finish
- TET4LW Slate Lapato Finish
- TET5LW Graphite Lapato Finish

All Mosaics
- TET1NM Ivory Natural Finish
- TET2NM Putty Natural Finish
- TET3NM Dove Natural Finish
- TET4NM Slate Natural Finish
- TET5NM Graphite Natural Finish
- TET1LM Ivory Lapato Finish
- TET2LM Putty Lapato Finish
- TET3LM Dove Lapato Finish
- TET4LM Slate Lapato Finish
- TET5LM Graphite Lapato Finish

800x800x12mm & 600x600x11mm ONLY
- TET02G Putty Grip Finish
- TET03G Dove Grip Finish
- TET04G Slate Grip Finish
- TET05G Graphite Grip Finish

N.B For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
URBAN CHIC
GLAZED PORCELAIN | WALL & FLOOR TILES

Three Size Formats
Available Sizes:

- 1200x600mm 10mm thick
- 600x600mm 10mm thick
- 600x300mm 9.5mm thick

Six Colour Options
Available Colours:

- Cloud
- Smoke
- Jet
- Royal Blue
- Sage
- Turmeric

One Finish
Available Finish:

- Natural Finish

N.B. For full details on specification and suitability please see page 54. For advice on technical issues please contact our technical helpline.
Availability

- CHIC1F Cloud Natural Finish
- CHIC2F Smoke Natural Finish
- CHIC3F Jet Natural Finish
- CHIC4F Royal Blue Natural Finish
- CHIC5F Sage Natural Finish
- CHIC6F Turmeric Natural Finish

N.B. For the most up-to-date availability information, please visit our website - www.johnson-tiles.com
TECHNICAL INFORMATION

DETAILED INFORMATION ON SPECIFICATION, FLOOR VALUES, COLOUR NOTATIONS, PHYSICAL PROPERTIES, INSTALLATION ADVICE AND CLEANING & MAINTENANCE.
## Technical Information

### Specification

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## Floor Values

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## Technical Information

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N.B Due to the manufacturing process of all floor tiles there may be small variations in slip resistance. Given this, please refer to our website or call our technical helpline for the most up-to-date information.
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CONTINUED >>>>

ABSOLUTE COLLECTION | 59
## Technical Information

### Colour Notations

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**N.B.** These results are from Johnson Tiles’ internal test reports and are to be used for guidance only. NCS: Natural Colour System. LRV: Light Reflectance Value (Reflectance Y).

---

![Buckingham Anthracite](image-url)
## Physical Properties - Ceramic Tiles

<table>
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<th>Requirements</th>
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<td>Length / Width</td>
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<td>±0.5% ≤ ±2mm</td>
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<td>Thickness</td>
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<td>±10% ≤ ±0.5mm</td>
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<td>Straightness of Side</td>
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<tr>
<td>Water Absorption</td>
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<td>10% to 20%</td>
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</tr>
<tr>
<td>Modulus of Rupture</td>
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<td>Min 15N / mm²</td>
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<tr>
<td>Frost Resistance</td>
<td>EN ISO 10545 - 12</td>
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<tr>
<td>Stain Resistance</td>
<td>EN ISO 10545 - 14</td>
<td>Min Class 3</td>
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N.B. Classed as BIII products [Glazed Ceramic]. All products conform to BS EN 14411.

## Physical Properties - Vitrified Tiles

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<tr>
<td>Thickness</td>
<td>EN ISO 10545 - 2</td>
<td>±5% ≤ ±0.5mm</td>
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<tr>
<td>Straightness of Side</td>
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<td>±0.5% ≤ ±1.5mm</td>
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<td>Water Absorption</td>
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N.B. Classed as BIIa products [Glazed Vitrified]. All products conform to BS EN 14411.

## Physical Properties - Porcelain Tiles

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<tr>
<td>Thickness</td>
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<td>±5% ≤ ±0.5mm</td>
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<td>Straightness of Side</td>
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<tr>
<td>Water Absorption</td>
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<td>≤ 0.5%</td>
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N.B. Classed as BIIa products [Glazed Porcelain]. All products conform to BS EN 14411.
# Technical Information

## Colour Shade Variation

Colour Shade Variation (CSV) values are assigned to wall and floor tiles within this booklet. These values are to be used for guidance only. Shade, colour and pattern variation are inherent characteristics of all ceramic, vitrified and porcelain tiles. Before fixing, several cartons should be opened and their contents mixed to ensure that the shade variation and/or patterning are acceptable.

Colour Shade Variation (CSV) is split into four categories:

- **V1 [Low Shade Variation]**
  - Least possible shade variation between tiles in a box. When installed and mixed correctly the effect is a consistent overall appearance.

- **V2 [Low to Moderate Shade Variation]**
  - Low to moderate shade variation within a box. When installed and mixed correctly the effect is a finish with subtle shade differences. These differences are a design feature of V2 rated tiles.

- **V3 [Moderate to High Shade Variation]**
  - Considerable shade variation within a box. When installed and mixed correctly the effect is a finish with a high degree of shade variation. These differences are a design feature of V3 rated tiles.

- **V4 [High Shade Variation]**
  - Highest possible shade variation within a box. Colours vary from tile to tile and when mixed and fixed correctly create a high degree of shade variation. This high shade variation is a design feature of V4 rated tiles.

## Pendulum 4S Results

The slip resistance of a floor finish is the most important safety consideration. Effective and suitable slip-resistant characteristics will reduce the likelihood of slipping, particularly for older, mobility impaired and visually impaired people.

The Pendulum Test is the standard and preferred Health and Safety Executive (HSE) test method for the assessment of floor slipperiness in dry and contaminated conditions. This portable test can be used to test floor products in the laboratory or in-situ and uses a swinging test apparatus, which simulates the act of walking over the flooring materials.

The 4S Slider 96 [Pendulum 4S] replicates typical shod trafficking. Products are tested dry and with a water lubricant and are then classed into one of the following three groups as an indication of their suitability:

- **0 - 24 [High Slip Potential]**
- **25 - 35 [Moderate Slip Potential]**
- **36+ [Low Slip Potential]**

The Pendulum 4S results contained in this booklet are based on Johnson Tiles’ internal test reports along with information available at the time of print and are to be used for guidance purposes only. Project-specific requirements should be used and checks should be made so that the requirements at the time of specification are incorporated. Further information is available from www.hse.gov.uk

## R Values

The German ramp test is used to generate the R Value ratings (DIN 51 130) used commonly in North Europe. This test can only be carried out in a laboratory, so does not allow in-situ testing of materials.

This is a shod foot test which uses oil as a contaminant. These results are then interpreted into one of the following five groups:

- **R9 [6° to 10°]**
  - Entrances and stairways accessed from outside, restaurants, shops, hospitals, clinic, schools etc.

- **R10 [10° to 19°]**
  - Shared toilets and showers, small kitchens in restaurants and cafés, garages and basements etc.

- **R11 [19° to 27°]**
  - Food production facilities, mid sized kitchens and cafés, working environments where there is a lot of water, laboratories, laundries, hangers etc.

- **R12 [27° to 35°]**
  - Production facilities for foods rich in fats, such as dairy products, food oils and cured meats, large kitchens in restaurants and cafés, industrial areas where slippery substances are used etc.

- **R13 [>35°]**
  - Areas where large quantities of fats are used; food processing areas etc.

R Value ratings have generally been used to assess product suitability in the UK. However, this is changing dramatically following recommendations from the HSE with the preferred test method being the Pendulum test.

## PEI Ratings and Traffic

Porcelain Enamel Institute (PEI) ratings refer to the surface abrasion resistance of a glazed floor tile. The test is only used for glazed tiles – through-body porcelain and un-glazed porcelain are tested using the EN ISO 10545-6 Deep Abrasion Test. All glazed floor tiles within this booklet are rated with a PEI value along with a foot traffic suitability recommendation, these values and recommendations are split into the following five categories:

- **PEI I [Light Domestic Traffic]**
  - Floors walked on with soft soled footwear with no scratching dirt – for example; residential, bathrooms without direct outside access, en-suite bathrooms etc.

- **PEI II [Domestic Traffic]**
  - Floors walked on with soft soled or normal footwear with occasional small amounts of scratching dirt – for example rooms in living areas of home, but not kitchens.

- **PEI III [Light Commercial Traffic]**
  - Floors walked on with normal footwear with small amounts of scratching dirt – for example; residential halls, corridors, kitchens or conservatories.

- **PEI IV [Commercial Traffic]**
  - Floors walked on by regular traffic with the presence of some scratching dirt but more severe than PEI III’s – for example; hotels, restaurants and shops without direct external access.

- **PEI V [Heavy Commercial Traffic]**
  - Floors subject to severe pedestrian traffic over sustained periods with the presence of some scratching dirt – for example; shopping centres, hotel foyers, commercial floors, institutional uses etc.
Wet Ramp

The German ramp test is used to generate the ABC ratings [DIN 51097] used commonly in North Europe. These tests can only be carried out in a laboratory, so does not allow in-situ testing of materials.

This a wet barefoot test where a soap solution is applied as a contaminant, the results from this test are placed into one of the following three categories:

Class A [12º to 17º]
Dry areas including dry changing room areas, dry barefoot corridors etc.

Class B [18º to 23º]
Same as Class A with the addition of swimming pool surrounds, communal showers, pool beach areas, disinfectant spray areas, wet changing room areas etc.

Class C [>23º]
Same as Class A and Class B with the addition of swimming pool surround inclines, walk through pools, jacuzzi floors and seats, inclined pool edges and steps etc.

ABC ratings have generally been used to assess product suitability in the UK. However, this is changing dramatically following recommendations from the HSE with the preferred test method being the Pendulum test.

Wet Barefoot Areas

The slip resistance of a floor finish is the most important safety consideration. Effective and suitable slip-resistant characteristics will reduce the likelihood of slipping, particularly for older, mobility impaired and visually impaired people.

The Pendulum Test is the standard and preferred Health and Safety Executive [HSE] test method for the assessment of floor slipperiness in dry and contaminated conditions. This portable test can be used to test floor products in the laboratory or in-situ and uses a swinging test apparatus, which simulates the act of walking over the flooring materials.

The Slider 55 [Pendulum TRRL] replicates wet barefoot trafficking for areas such as; wet changing rooms, swimming pool surrounds, shower areas, etc. Products are tested with a water lubricant and are then given a ‘Tes’ classification if they’re suitable for Wet Barefoot areas.

The Pendulum TRRL results contained in this booklet are based on Johnson Tiles’ internal test reports along with information available at the time of print and are to be used for guidance purposes only.

Project-specific requirements should be used and checks should be made so that the requirements at the time of specification are incorporated. Further information is available from - www.hse.gov.uk

Accessibility and Support

The Equality Act 2010 has replaced the Disability Discrimination Act and in general, carries forward the protection that the Disability Discrimination Act provided for disabled people. The Disability Discrimination Act was repealed in October 2010.

The Equality Act requires accessible environments to be provided for disabled people, either in their place of work or for access to goods, services or facilities [public spaces]. Those commissioning new buildings or adaptations to existing buildings must consider the implications of the Equality Act and their ability to provide buildings that do not discriminate against disabled people [physical or mental impairments].

Colour Reflectance [Contrast]
The Equality Act gives guidance on good visual contrast for the visually impaired between various elements of a building by the use of Light Reflectance Values [LRV].

LRV is a general term for contrast and is measured as the proportion of useful light reflected by a coloured object, floor, wall or ceiling.

LRV is measured on a scale of 0 to 100 where 0 is perfect black and 100 perfect white (in reality 0 and 100 are unobtainable colours).

According to NCS Colour Centre in practical terms black is approx 6 and white approx 85.

The current guidelines from Building Regulations Approved Document M on contrast are that a minimum difference of 30 LRV points should be specified for adjacent surfaces to ensure that visually impaired people are not discriminated against. In a specific example of ceramic tiles this difference should be between:

Floors to Walls
Ceiling to Walls
Handrails to Walls
Sanitary Fittings to Walls

The visual contrast between floors and walls is important in enabling visually impaired people to assess and gauge the size and shape of a room. The greatest visual contrast must occur where the floor meets the wall [skirting] as this gives the most accurate visual indication of the extent of the room. Where provided, skirtings should contrast visually with the floor and be similar in colour and tone to the wall surface.

Light Reflectance Values

LRV is a general term for contrast and is measured as the proportion of useful light reflected by a coloured object, floor, wall or ceiling. LRV is measured on a scale of 0 to 100 where 0 is perfect black and 100 is perfect white.

The current guidelines from Building Regulations Approved Document M on contrast are that a minimum difference of 30 LRV points should be specified for adjacent surfaces to ensure that visually impaired people are not discriminated against.

Colours are notated by the Natural Colour System (NCS). © Property of and used under the licence from Scandinavian Colour Institute AB. SCI Sweden SE, Stockholm, 2001. See your local NCS distributor for original NCS standard samples.
Technical Information

Installation Advice

Codes of Practice
All fixing of floor and cladding tiles should be in accordance with the following codes of practice guidelines:

- BS 5385 Part 1 - 1995
  [Code of practice for the design and installation of internal wall tiling and mosaics in normal conditions]
- BS 5385 Part 2 - 2006
  [Code of practice for the design and installation of external ceramic wall tiling and mosaics]
- BS 5385 Part 3 - 1989
  [Code of practice for the design and installation of ceramic floor tiles and mosaics]
- BS 5385 Part 4 - 1992
  [Code of practice for ceramic tiling and mosaic in specific conditions]
- BS 8000 Section 11.1 - 1989
  [Workmanship on Building Sites, Part 11, Code of practice for wall and floor tiling]

Floor and cladding tiles are made from quality refined raw materials and are classed as Bia [Porcelain] products, as such they require the use of polymer modified adhesives [classification C2*] and grouts specially formulated for fixing and grouting of porcelain tiles.

* Check with adhesive manufacturer for additional C1 product suitability.

Substrates
Before tiling is commenced it is important to ensure that the correct minimum curing periods have been observed for all substrates:

- Concrete [6 Weeks]
- Screed - Non Modified [3 Weeks]
- Rendering - Non Modified [2 Weeks]
- Gypsum Plastering [4 Weeks]
- Brickwork / Blockwork [6 Weeks]

Accuracy of the substrate must be checked to ensure that the guidance given in BS 5385 has been achieved i.e. “local variations in level for a nominally flat floor or wall should be such that, when checked with a 2m straightedge, any gap under the straightedge between points of contact does not exceed 3mm”.

Movement Joints
The location, type and scope of all movement joints must be ascertained prior to any fixing works. All structural joints must be followed through to the face of the tile at full width with intermediate movement joints [minimum 6mm wide] being situated at:

Changes of Plane
Wall / Floor Junctions
Where Tiling Abuts Other Materials

Additionally at 3 to 4.5m maximum centres for wall tiling and 8 to 10m maximum bay centres for floor tiling [in suspended floors the bay dimensions should be reduced by providing additional joints over supporting walls and beams].

Movement joints can either be filled with a suitable backer, bond breaker and filler [e.g. epoxy polysulphide – please check with manufacturer for suitability] or be of the pre-formed variety.

Design / Layout
Consideration to locations of plane changes and room sizes should be undertaken to ensure the best tile size is selected to minimise cutting and improve aesthetics.

Adhesives
Adhesives should be in accordance with BS EN 1 2004, Class C2*. Particular adhesive choice will be governed by the substrate.

* Check with adhesive manufacturer for additional C1 product suitability.

Johnson Tiles recommend the use of Norcros Adhesives products, see below:

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>Rapid Set / Rapid Set Flexible</td>
</tr>
<tr>
<td>Sand / Cement Screed</td>
<td>Rapid Set / Rapid Set Flexible</td>
</tr>
<tr>
<td>Wood Floors</td>
<td>Speed Flex</td>
</tr>
<tr>
<td>Brickwork / Blockwork</td>
<td>One Part Flexible</td>
</tr>
<tr>
<td>Sand / Cement Render</td>
<td>One Part Flexible</td>
</tr>
<tr>
<td>Plasterboard</td>
<td>One Part Flexible</td>
</tr>
<tr>
<td>Prima with Prime &amp; Seal</td>
<td></td>
</tr>
</tbody>
</table>

Grouts
The choice of grout type should reflect the expected service conditions of the installation.

For general floor tiling grouts should be class CG2 i.e. Wide Joint Flexible Grout.

For floors subject to frequent wetting i.e. showers and pool halls grout should be class CG2 for hard water areas or RG1 for soft water areas i.e. Wide Joint Flexible Grout [CG2], Easy Clean Epoxy [RG1].

Where hygiene is important i.e commercial kitchens and hospitals grout should be class RG1 i.e. Easy Clean Epoxy.

Fixing Tiles
All floor tiles should be fixed with a solid bed of adhesive, this ensures maximum durability and strength within the installation and long term adhesion performance. This is achieved with the use of a notched solid bed trowel. It is good practice to periodically remove a recently fixed tile to ensure that the correct bedding is being achieved and maintained. When fixing all tiles care must be taken to ensure that no lipping of tiles occurs.
Cleaning and Maintenance

Maintaining the appearance and characteristics [especially slip resistance values] of floor tiles is achieved with the implementation of a suitable cleaning regime. It must be stressed that the cleaning material manufacturers instructions must be followed at all times. Regular and correctly undertaken cleaning should maintain a flooring product as close to its original state as possible. Incorrect or infrequent cleaning will adversely affect the properties of the flooring material and increase potential hazards. Generally the smoother the surface of the tile the easier it is to clean. However, it should be noted that textured products, required to give adequate slip resistance when wet, can be satisfactorily cleaned – the cleanability of a surface is more a function of the contaminant than the texture of the surface. It is therefore essential when selecting and specifying a floor finish that the use of the area and likely contaminants, safety, aesthetic and hygiene requirements are all taken into account at the specification stage.

Cleaning can be split into several categories, each of which is dependant upon installation type [i.e. wet barefoot areas, shopping malls, public toilets, etc] and frequency of usage [i.e. high, medium or low traffic].

Builders Clean
This should be undertaken before a floor is being brought into service. The builders clean removes any residual film leftover from the grouting operation and is a one-off cleaning process. This must be carried out as any grout residues left behind will act as a key for dirt resulting in the installation being difficult to clean. Temporary sealers may be used to facilitate cleaning off after laying which can be removed with the use of alkaline detergents.

Cementitious Grouts
The use of a mild acid de-cementing solution followed by thorough rinsing will remove all but the most stubborn of cement residues.

Epoxide Grouts
It is essential that ALL residue must be removed from the surface of the tiles during the grouting process and before the resin cures. Failure to achieve this will result in a very difficult and expensive process using gel-type epoxide removers.

Routine Cleaning
The regular use of detergents or other cleaning agents, which are excessively acidic or alkaline could cause irreversible damage to the ceramic tile surface. Degreasing agents that contain wax, sodium silicate or other additives which leave sticky deposits and thus retain dirt should be avoided. Oil residues or build-ups of wax can be removed with a proprietary wax and polish remover.

Manual Cleaning
In normal conditions tiles require little maintenance and can be easily kept clean by sweeping and then mopping with warm water to which a neutral or nearly neutral detergent has been added. The cleaning solution should remain on the floor for 5 to 15 minutes [see manufacturers instructions] to allow it to penetrate and emulsify the dirt after which it should be removed by rinsing thoroughly with clean water. The rinsing process removes the dirt so the use of clean water is important.

Mechanical Cleaning
For larger floor areas or areas of textured tiles the use of a rotary scrubbing machine is recommended [machines should not be used at speeds in excess of 450rpm]. The choice of brush type is very important. Union mix brushes are suitable for light washing and scrubbing, polypropylene brushes are suitable where dirt deposits are especially heavy. The cleaning solution should remain on the floor for 5 to 15 minutes [see manufacturers instructions] after which a secondary scrubbing action and clean mop or suction should be undertaken to remove the solution and dirt.

High Pressure Cleaning
Tiles seldom require the use of high-pressure cleaning. Whilst the process will not damage the tiles care must be taken to avoid erosion of the grout. To minimise grout erosion ensure that the water beam is continually moved from side to side and not allowed to concentrate on the grouted joints. Water containing abrasives or steam cleaners should not be used on ceramic tiles.

Wet Areas
Wet barefoot areas may attract build-ups of body fats, soaps, oil residues and organic growth. To prevent these mainly acidic cleaning agent used regularly is preferable. If build-up has been allowed a preliminary deep clean with a proprietary cleaner is required followed by regular use of a mildly acidic cleaning agent solution.

Periodic Deep Cleaning
Occasionally foreign matter may cause surface marks that cannot be removed with the usual cleaning processes and materials. If the surface mark cannot be removed, other materials should be considered [it is advisable to experiment on a small inconspicuous area].

Paint – Paint Remover
Organic Stains – Bleach / one off treatment with Washing Soda
Rust – Masonry Cleaner
Oil / Fat / Grease – Detergent or Degreaser
Mould Growth – Household Bleach / Proprietary Cleaner
Tea / Coffee / Ink – Household Bleach / Proprietary Cleaner

Abrasive powders or cleaners should never be used on ceramic tiles.

Important Information

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

For specific suitability and fit-for-purpose details, 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 in this booklet.

In the interest of progress, 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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