Absolute Collection
Ceramic, Vitrified and Porcelain
Wall and Floor Tiles
**Absolute**, a leading edge collection of contemporary tiles for both the wall and floor. Explore texture, colour and scale in high end ceramic, vitrified and porcelain. The **Absolute Collection** allows you the freedom to create the perfect design solution for any commercial or residential project.

**Selected ranges in the Absolute Collection are available from stock, the majority are available to order within 2 - 4 weeks.**

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**About us**

You can be assured that with more than 100 years’ expertise, all Johnson Tiles products are designed and manufactured to the highest possible standards and performance ratings.

We are very conscious of our part in protecting the environment. Listed in ‘The Sunday Times Best Green Companies’, each year we re-use internal water supplies, recapture and distribute heat generated from our kilns, and recycle approximately 10k tonnes of ceramic waste; and all product manufactured at our Stoke on Trent base contains up to 20% recycled ceramic materials – a unique process worldwide. Johnson Tiles is a division of Norcros Group (Holdings) Limited, Ladyfield House, Station Road, Wilmslow, Cheshire, SK9 1BU. Registered in England number 566694.

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**One portfolio...**

We operate from one core product portfolio used internationally. Three collections built on a Good, Better and Best principle. Each group has both wall and floor co-ordinating options. Our colour and design story works across all three collections allowing clients to ‘mix and match’ between price points and styles.

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**The Absolute Collection - Available ranges...**

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<td>Un-glazed Porcelain Wall and Floor Tiles</td>
<td>Glazed Ceramic Wall Tiles</td>
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<td>Un-glazed Porcelain Wall and Floor Tiles</td>
<td>Un-glazed Porcelain Wall and Floor Tiles</td>
<td>Un-glazed Porcelain Wall and Floor Tiles</td>
</tr>
</tbody>
</table>

*To learn more about these or any of our other ranges, simply go to [www.johnson-tiles.com](http://www.johnson-tiles.com)*
**Antique** is available in one bold and impactful size.

- **Size**
  - 1020 x 160mm

- **Skirting**
  - 1020 x 80mm – Round top

**Availability**

- **All sizes**
  - ANTI-N Chestnut Natural
  - ANTI-N Acorn Natural
  - ANTI-N Cedar Natural
  - ANTI-N Birch Natural
  - ANTI-N Teak Natural

- **All skirtings**
  - ANTI-G Chestnut Grip
  - ANTI-G Acorn Grip
  - ANTI-G Cedar Grip
  - ANTI-G Birch Grip
  - ANTI-G Teak Grip

**Two finishes** combine form and function.

Examples below are not to scale but have been enlarged to show detail.

- **Natural**
- **Grip**

**Thickness**

All tiles in this range are 10.5mm thick.

**Five colours** offering a neutral and contemporary palette.

- **Cedar** PEI IV
- **Birch** PEI IV
- **Acorn** PEI IV
- **Teak** PEI II
- **Chestnut** PEI III

Antique Acorn, Cedar and Birch Natural
**Arich** is available in **four sizes**, perfectly designed for seamless installation.

<table>
<thead>
<tr>
<th>Size</th>
<th>600 x 600mm</th>
<th>600 x 300mm</th>
<th>300 x 300mm</th>
</tr>
</thead>
</table>

**Thickness**
- All Polished finish tiles in this range are 8.5mm thick. All other tiles are 9mm thick.

**Skirting**
- 600 x 95mm - Round top
- 450 x 95mm - Round top
- 300 x 95mm - Round top

**Availability**
- ARH01N Beige Natural
- ARH02N Almond Natural
- ARH04N Pumice Natural
- ARH06N Dove Natural
- ARH08N Smoke Natural
- ARH09N Graphite Natural
- ARH01P Beige Polished
- ARH02P Almond Polished
- ARH04P Pumice Polished
- ARH06P Dove Polished
- ARH08P Smoke Polished
- ARH09P Graphite Polished

* Only available in 600 x 300mm

**Six colours** offering a neutral and contemporary palette.

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

**Three finishes** combine form and function.

Examples below are not to scale but have been enlarged to show detail.
Artisan is available in four sizes, perfectly designed for seamless installation.

**Size**
- 1200 x 200mm
- 900 x 150mm
- 800 x 600mm
- 900 x 150mm - Right
- 900 x 150mm - Left

**Mosaic**
- Sheet size 900 x 300mm
- Sheet size 300 x 300mm
- 900 x 50mm
- 300 x 30mm

**Skirting**
- 1200 x 50mm - Bevel top
- 900 x 50mm - Bevel top

**Thickness**
All tiles in this range are 11mm thick.

**Availability**
- All sizes: ARN01N White Oak Natural, ARN02N Highland Ash Natural, ARN03N Natural Oak Natural, ARN04N Hickory Natural, ARN05N Aspen Natural, ARN06N Walnut Natural
- All mosaics: ARN1NM White Oak Natural, ARN2NM Highland Ash Natural, ARN3NM Natural Oak Natural, ARN4NM Hickory Natural, ARN5NM Aspen Natural, ARN6NM Walnut Natural
- All skirtings: ARN1NS White Oak Natural, ARN2NS Highland Ash Natural, ARN3NS Natural Oak Natural, ARN4NS Hickory Natural, ARN5NS Aspen Natural, ARN6NS Walnut Natural
- * Only available in 1200 x 200mm

**Six colours** offering a neutral and contemporary palette.
- White Oak
- Highland Ash
- Natural Oak
- Hickory
- Aspen
- Walnut

**Two finishes** combine form and function.
Examples below are not to scale but have been enlarged to show detail:

- Natural
- Grip

*Natural Grit*
**Avoir** is available in **four sizes**, perfectly designed for seamless installation.

**Size**
- 360 x 360mm
- 180 x 180mm
- 260 x 225mm – Hexagon
- 260 x 225mm – Scored Hexagon

**Mosaic**
Sheet size 410 x 195mm

**Skirting**
360 x 90mm – Square top

**Thickness**
All tiles in this range are 10mm thick.

**Availability**

<table>
<thead>
<tr>
<th>All sizes</th>
<th>All mosaics</th>
<th>All skirtings</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVR01N Bone Natural *</td>
<td>AVR001N Bone Natural **</td>
<td>AVR01NS Bone Natural **</td>
</tr>
<tr>
<td>AVR02N Beige Natural *</td>
<td>AVR002N Beige Natural **</td>
<td>AVR02NS Beige Natural **</td>
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<td>AVR03N Graphite Natural *</td>
<td>AVR003N Graphite Natural **</td>
<td>AVR03NS Graphite Natural **</td>
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<td>AVR04N Smoke Natural *</td>
<td>AVR004N Smoke Natural **</td>
<td>AVR04NS Smoke Natural **</td>
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<tr>
<td>AVR05N Graphite Mix Natural Décor **</td>
<td>AVR005NM Graphite Natural</td>
<td>AVR05NS Graphite Natural</td>
</tr>
</tbody>
</table>

*Not available in 260 x 225mm

**10 colours** offering a neutral and contemporary palette.

- Bone PEI IV
- Beige PEI II
- Cement PEI II
- Bone Mix PEI IV
- Beige Mix PEI II
- Cement Mix PEI II
- Smoke PEI II
- Graphite PEI I
- Smoke Mix PEI II
- Graphite Mix PEI I

**Two finishes** combine form and function.

Examples below are not to scale but have been enlarged to show detail.

| Natural | Natural Décor |

For more details, please refer to the manufacturer’s specifications or contact customer service.
Baker Street is available in one subtle and versatile size.

Seven colours offering a neutral and contemporary palette.

Size
300 x 75mm

Thickness
All tiles in this range are 9mm thick.

Availability
All sizes
BAK01A  Chalk  Gloss
BAK02A  Magnolia  Gloss
BAK03A  Sand  Gloss
BAK04A  Silver Mist  Gloss
BAK05A  Pale Slate  Gloss
BAK06A  Cobblestone  Gloss
BAK07A  Coal  Gloss

One finish
Example below is not to scale but has been enlarged to show detail.

Gloss
Baseline is available in **four sizes**, perfectly designed for seamless installation.

### Size

<table>
<thead>
<tr>
<th>Size</th>
<th>900 x 900mm</th>
<th>900 x 450mm</th>
<th>600 x 600mm</th>
<th>600 x 300mm</th>
</tr>
</thead>
</table>

### N.B

Illustrated below are additional shapes that are also available in this range. These shapes are only available in 900 x 900mm.

#### Mosaic

- Sheet size: 450 x 300mm
- Sheet size: 300 x 300mm
- 100 x 20mm - Herringbone
- 40 x 35mm - Hexagon
- 33 x 33mm - Mosaic

#### Skirting

- 900 x 50mm - Bevel top
- 600 x 50mm - Bevel top

### Thickness

All tiles in this range are 11mm thick.

### Availability

#### All sizes

- BASE1N Powder Natural
- BASE2N Biscuit Natural
- BASE3N Dove Natural
- BASE4N Fossil Natural
- BASE5N Smoke Natural
- BASE6N Shadow Natural

#### All mosaics

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

#### All skirtings

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

### Six colours offering a neutral and contemporary palette.

- Powder
- Biscuit
- Dove
- Fossil
- Smoke
- Shadow

### One finish

Example below is not to scale but has been enlarged to show detail.

Natural
Brics is available in one subtle and versatile size.

**Size**

250 x 60mm

**Availability**

All sizes
- BRI01N Montmartre White Natural
- BRI02N Noho Red Blend Natural
- BRI03N Tokyo Red Natural
- BRI04N Octavia Beige Natural
- BRI05N Brooklyn Brown Natural
- BRI06N Docklands Grey Natural

**Thickness**

All tiles in this range are 10mm thick.

N.B

Brics is designed to have a high shade, colour and pattern variation. Before fixing, several cartons should be opened, and the contents mixed, to ensure that the size, shade, colour and patterning are acceptable.

**Six colours** offering a neutral and contemporary palette.

- Montmartre White PEI IV
- Noho Red Blend PEI III
- Tokyo Red PEI III
- Octavia Beige PEI IV
- Brooklyn Brown PEI II
- Docklands Grey PEI III

**One finish**

Example below is not to scale but has been enlarged to show detail.

Natural


**Centaurus** is available in **seven sizes**, perfectly designed for seamless installation.

### Size

<table>
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<tr>
<th>600 x 600mm</th>
<th>100 x 100mm</th>
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<tbody>
<tr>
<td>300 x 300mm</td>
<td>25 x 25mm</td>
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</table>

### Mosaic

Sheet size 300 x 300mm

| 100 x 100mm - Tumbled | 25 x 25mm - Tumbled | 60 x 30mm |

### Skirting

<table>
<thead>
<tr>
<th>800 x 90mm - Round top</th>
<th>600 x 90mm - Round top</th>
<th>400 x 90mm - Round top</th>
<th>300 x 90mm - Round top</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 x 90mm - Square top</td>
<td>600 x 90mm - Square top</td>
<td>400 x 90mm - Square top</td>
<td>300 x 90mm - Square top</td>
</tr>
</tbody>
</table>

### Availability

**All sizes**
- CEN01N  Graphite Natural
- CEN02N  Slate Natural
- CEN03N  Bone Natural
- CEN04N  Wheat Natural
- CEN01P  Graphite Polished *
- CEN02P  Slate Polished *
- CEN03P  Bone Polished *
- CEN04P  Wheat Polished *
- CEN06P  Dove Polished **
- CEN07P  Sienna Polished **
- CEN10P  Yellow Polished **
- CEN01G  Slate Grip **
- CEN02G  Bone Grip **
- CEN03G  Bone Grip **
- CEN04G  Wheat Grip **
- CEN11B  Graphite Bush Hammered **
- CEN12B  Slate Bush Hammered **
- CEN13B  Bone Bush Hammered **
- CEN14B  Wheat Bush Hammered **
- CEN15P  Graphite Polished
- CEN16P  Slate Polished
- CEN17P  Bone Polished
- CEN18P  Wheat Polished
- CEN19P  Dove Polished
- CEN20P  Sienna Polished
- CEN21P  Bone Polished
- CEN22P  Wheat Polished
- CEN23P  Dove Polished
- CEN24P  Sienna Polished

**All mosaics**
- CEN01NM  Graphite Natural
- CEN02NM  Slate Natural
- CEN03NM  Bone Natural
- CEN04NM  Wheat Natural
- CEN01PM  Graphite Polished
- CEN02PM  Slate Polished
- CEN03PM  Bone Polished
- CEN04PM  Wheat Polished
- CEN06PM  Dove Polished *
- CEN07PM  Sienna Polished *

**All skirtings**
- CEN01NS  Graphite Natural
- CEN02NS  Slate Natural
- CEN03NS  Bone Natural
- CEN04NS  Wheat Natural
- CEN01BS  Graphite Bush Hammered **
- CEN02BS  Slate Bush Hammered **
- CEN03BS  Bone Bush Hammered **
- CEN04BS  Wheat Bush Hammered **
- CEN06BS  Dove Polished
- CEN07BS  Sienna Polished

**300 x 90mm Round and Square top, 600 x 90mm Round and Square top and 600 x 90mm Square top skirtings**
- CEN01NS  Graphite Natural
- CEN02NS  Slate Natural
- CEN03NS  Bone Natural
- CEN04NS  Wheat Natural
- CEN06BS  Dove Bush Hammered **
- CEN07BS  Sienna Bush Hammered **

**Notes:**
- *Not available in 600 x 90mm Square top and 600 x 90mm Square top skirtings.
- **Not available in 400 x 90mm Round top and 300 x 90mm Square top skirtings.
- ***Not available in 600 x 90mm Square top.

### Thickness

600 x 600mm and 300 x 300mm tiles in this range are 11mm thick. All other tiles are 10mm thick.

### Four finishes combine form and function.

Examples below are not to scale but have been enlarged to show detail:

- **Natural**
- **Polished**
- **Grip**
- **Bush Hammered**

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Please turn over to view available colours...
Seven colours offering a neutral and contemporary palette.

- Bone
- Dove
- Wheat
- Yellow
- Sienna
- Slate
- Graphite
**Delta** is available in **three sizes**, perfectly designed for seamless installation.

<table>
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<th>Size</th>
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<td>600 x 600mm</td>
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<tr>
<td>600 x 300mm</td>
<td><img src="image2" alt="Image" /></td>
</tr>
<tr>
<td>800 x 800mm</td>
<td><img src="image3" alt="Image" /></td>
</tr>
</tbody>
</table>

**Six colours** offering a neutral and contemporary palette.

- White
- Pumice
- Smoke
- Slate
- Cocoa
- Black

**Availability**

<table>
<thead>
<tr>
<th>Size</th>
<th>DEL01N White Natural</th>
<th>DEL02N Pumice Natural</th>
<th>DEL03N Smoke Natural</th>
<th>DEL04N Slate Natural</th>
<th>DEL05N Cocoa Natural</th>
<th>DEL06N Black Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 x 600mm</td>
<td>DEL01P White Polished*</td>
<td>DEL02P Pumice Polished*</td>
<td>DEL03P Smoke Polished*</td>
<td>DEL04P Slate Polished*</td>
<td>DEL05P Cocoa Polished*</td>
<td>DEL06P Black Polished*</td>
</tr>
<tr>
<td>600 x 300mm</td>
<td>DEL01T White Textured</td>
<td>DEL02T Pumice Textured</td>
<td>DEL03T Smoke Textured</td>
<td>DEL04T Slate Textured</td>
<td>DEL05T Cocoa Textured</td>
<td>DEL06T Black Textured</td>
</tr>
</tbody>
</table>

*Nat available in 600 x 800mm

**Four finishes** combine form and function.

- Natural
- Polished
- Textured
- Grip

**Thickness**

600 x 600mm tiles in this range are 11mm thick; except Polished, which is 10mm thick. 600 x 300mm tiles are 10mm thick; except Polished, which is 9mm thick. All other tiles are 12mm thick.

![Delta Cocoa Textured](image4)
**District** is available in **five sizes**, perfectly designed for seamless installation.

<table>
<thead>
<tr>
<th>Size</th>
<th>600 x 600mm</th>
<th>900 x 450mm</th>
<th>900 x 900mm</th>
<th>600 x 300mm</th>
</tr>
</thead>
</table>

**Mosaic**
- Sheet size 300 x 300mm
- 150 x 30mm
- 50 x 50mm
- Mixed strips

**Skirting**
- 900 x 50mm - Bevel top
- 600 x 50mm - Bevel top

**Thickness**
All tiles in this range are 11mm thick.

**Two finishes** combine form and function.
Examples below are not to scale but have been enlarged to show detail:

- **Natural**
- **Grip**

**Four colours** offering a neutral and contemporary palette:
- Stone White
- Ash
- **Tarnished Silver**
- **Anthracite**

**Availability**

**All sizes**
- DIS01N Stone White Natural
- DIS02N Ash Natural
- DIS03N Tarnished Silver Natural
- DIS04N Anthracite Natural
- DIS01G Stone White Grip *
- DIS02G Ash Grip *
- DIS03G Tarnished Silver Grip *
- DIS04G Anthracite Grip *

**All mosaics**
- DIS1NM Stone White Natural
- DIS2NM Ash Natural
- DIS3NM Tarnished Silver Natural
- DIS4NM Anthracite Natural

**All skirtings**
- DIS1NS Stone White Natural
- DIS2NS Ash Natural
- DIS3NS Tarnished Silver Natural
- DIS4NS Anthracite Natural

*Not available in 900 x 450mm
Flare is available in one bold and impactful size.

**Size**
200 x 400mm

**Availability**
All sizes:
- FLA01G Simply White Gloss
- FLA01G Eggshell Gloss
- FLA01G Linen White Gloss
- FLA01S Simply White Satin

**Thickness**
All tiles in this range are 12.5mm thick.

Two finishes combine form and function.
Examples below are not to scale but have been enlarged to show detail.

Gloss
Satin

Three colours offering a neutral and contemporary palette.

Simply White
Eggshell
Linen

Flare Simply White Gloss
**Loft** is available in one subtle and versatile size.

**Size**

- 280 x 70mm

**N.B.**

Loft is designed to have a high shade, colour and pattern variation. Before fixing, several cartons should be opened, and the contents mixed, to ensure that the size, shade, colour and patterning are acceptable.

**Availability**

All sizes

LOF11 Beige Mix Natural

**One finish**

Example below is not to scale but has been enlarged to show detail.

**Thickness**

All tiles in this range are 8mm thick.

**One colour**

Beige Mix PEI IV

```
Beige Mix
```

```
Loft Beige Mix
```

Natural
**Minerals** is available in **eight sizes**, perfectly designed for seamless installation.

- **Size**
  - 600 x 1000mm
  - 600 x 500mm
  - 600 x 300mm
  - 900 x 450mm
  - 900 x 600mm
  - 900 x 900mm

- **Mosaic**
  - Sheet size 300 x 300mm
  - 150 x 30mm
  - 30 x 30mm
  - Mixed strips

- **Skirting**
  - 900 x 50mm - Bevel top
  - 600 x 50mm - Bevel top

- **Thickness**
  - All tiles in this range are 11mm thick.

**Three finishes** combine form and function.

Examples below are not to scale but have been enlarged to show detail:

- Natural
- Grip
- Bush Hammered

**Five colours** offering a neutral and contemporary palette.

- Chalk
- Dolomite
- Limestone
- Flint
- Slate

**Availability**

<table>
<thead>
<tr>
<th>All sizes</th>
<th>Chalk Natural</th>
<th>Dolomite Natural</th>
<th>Limestone Natural</th>
<th>Flint Natural</th>
<th>Slate Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN01N</td>
<td>MIN02N</td>
<td>MIN03N</td>
<td>MIN04N</td>
<td>MIN05N</td>
<td>MIN01G</td>
</tr>
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<td>MIN01B</td>
<td>MIN02B</td>
<td>MIN03B</td>
<td>MIN04B</td>
<td>MIN05B</td>
<td>MIN01G</td>
</tr>
<tr>
<td>MIN11G</td>
<td>MIN12G</td>
<td>MIN13G</td>
<td>MIN14G</td>
<td>MIN15G</td>
<td>MIN11G</td>
</tr>
</tbody>
</table>

*Not available in 900 x 450mm, 1800 x 300mm and 1800 x 600mm

**All mosaics**

- MIN01M Chalk Natural
- MIN02M Dolomite Natural
- MIN03M Limestone Natural
- MIN04M Flint Natural
- MIN05M Slate Natural

**All skirtings**

- MIN01S Chalk Natural
- MIN02S Dolomite Natural
- MIN03S Limestone Natural
- MIN04S Flint Natural
- MIN05S Slate Natural

**All mosaics**

- MIN01B Chalk Bush Hammered **
- MIN02B Dolomite Bush Hammered **
- MIN03B Limestone Bush Hammered **
- MIN04B Flint Bush Hammered **
- MIN05B Slate Bush Hammered **

**All skirtings**

- MIN01S Chalk Natural
- MIN02S Dolomite Natural
- MIN03S Limestone Natural
- MIN04S Flint Natural
- MIN05S Slate Natural

**All mosaics**

- MIN01B Chalk Bush Hammered **
- MIN02B Dolomite Bush Hammered **
- MIN03B Limestone Bush Hammered **
- MIN04B Flint Bush Hammered **
- MIN05B Slate Bush Hammered **

**All skirtings**

- MIN01S Chalk Natural
- MIN02S Dolomite Natural
- MIN03S Limestone Natural
- MIN04S Flint Natural
- MIN05S Slate Natural

**All mosaics**

- MIN01B Chalk Bush Hammered **
- MIN02B Dolomite Bush Hammered **
- MIN03B Limestone Bush Hammered **
- MIN04B Flint Bush Hammered **
- MIN05B Slate Bush Hammered **

**All skirtings**

- MIN01S Chalk Natural
- MIN02S Dolomite Natural
- MIN03S Limestone Natural
- MIN04S Flint Natural
- MIN05S Slate Natural

**All mosaics**

- MIN01B Chalk Bush Hammered **
- MIN02B Dolomite Bush Hammered **
- MIN03B Limestone Bush Hammered **
- MIN04B Flint Bush Hammered **
- MIN05B Slate Bush Hammered **

**All skirtings**

- MIN01S Chalk Natural
- MIN02S Dolomite Natural
- MIN03S Limestone Natural
- MIN04S Flint Natural
- MIN05S Slate Natural
Mode is available in five sizes, perfectly designed for seamless installation.

**Size**
- 600 x 600mm
- 600 x 300mm
- 600 x 200mm
- 600 x 150mm
- 600 x 100mm

**Mosaic**
- Sheet size 300 x 300mm
  - 75 x 25mm - Mixed
  - 45 x 45mm - Mixed
  - 45 x 45mm

**Thickness**
All Polished finish tiles in this range are 10.5mm thick. All other tiles are 11mm thick.

**Skirting**
600 x 100mm - Round top

**Availability**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Cotton Natural</th>
<th>Sable Natural</th>
<th>Straw Natural</th>
<th>Sepia Natural</th>
<th>Mink Natural</th>
<th>Nimbus Natural</th>
<th>Coal Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOD01N</td>
<td>Cotton Natural</td>
<td>Sable Natural</td>
<td>Straw Natural</td>
<td>Sepia Natural</td>
<td>Mink Natural</td>
<td>Nimbus Natural</td>
<td>Coal Natural</td>
</tr>
<tr>
<td>MOD01F</td>
<td>Cotton Polished</td>
<td>Sable Polished</td>
<td>Straw Polished</td>
<td>Sepia Polished</td>
<td>Mink Polished</td>
<td>Nimbus Polished</td>
<td>Coal Polished</td>
</tr>
<tr>
<td>MOD01B</td>
<td>Cotton Bush Hammered</td>
<td>Sable Bush Hammered</td>
<td>Straw Bush Hammered</td>
<td>Sepia Bush Hammered</td>
<td>Mink Bush Hammered</td>
<td>Nimbus Bush Hammered</td>
<td>Coal Bush Hammered</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MOD01</th>
<th>Cotton Natural</th>
<th>Sable Natural</th>
<th>Straw Natural</th>
<th>Sepia Natural</th>
<th>Mink Natural</th>
<th>Nimbus Natural</th>
<th>Coal Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOD01</td>
<td>Cotton Natural</td>
<td>Sable Natural</td>
<td>Straw Natural</td>
<td>Sepia Natural</td>
<td>Mink Natural</td>
<td>Nimbus Natural</td>
<td>Coal Natural</td>
</tr>
<tr>
<td>MOD01F</td>
<td>Cotton Polished</td>
<td>Sable Polished</td>
<td>Straw Polished</td>
<td>Sepia Polished</td>
<td>Mink Polished</td>
<td>Nimbus Polished</td>
<td>Coal Polished</td>
</tr>
<tr>
<td>MOD01B</td>
<td>Cotton Bush Hammered</td>
<td>Sable Bush Hammered</td>
<td>Straw Bush Hammered</td>
<td>Sepia Bush Hammered</td>
<td>Mink Bush Hammered</td>
<td>Nimbus Bush Hammered</td>
<td>Coal Bush Hammered</td>
</tr>
</tbody>
</table>

**45 x 45mm mosaic**
- MOD01SM Cotton Natural
- MOD01SM Sable Natural
- MOD01SM Straw Natural
- MOD01SM Sepia Natural
- MOD01SM Mink Natural
- MOD01SM Nimbus Natural
- MOD01SM Coal Natural

**45 x 45mm - Mixed and 75 x 25MM - Mixed mosaics**
- MOD01MM Cotton Natural
- MOD01MM Sable Natural
- MOD01MM Straw Natural
- MOD01MM Sepia Natural
- MOD01MM Mink Natural
- MOD01MM Nimbus Natural
- MOD01MM Coal Natural

Three finishes combine form and function.
Examples below are not to scale but have been enlarged to show detail:

- **Natural**
- **Polished**
- **Bush Hammered**

Please turn over to view available colours...
Eight colours offering a neutral and contemporary palette.

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

Mode Pebble and Nimbus Bush Hammered
Neptune is available in four sizes, perfectly designed for seamless installation.

Size

- 600 x 600mm
- 600 x 400mm
- 600 x 300mm
- 600 x 50mm

Thickness

All tiles in this range are 11mm thick.

Mosaic

Sheet size 300 x 300mm

75 x 75mm - Random

Availability

All sizes
- NEP01N Cream Natural
- NEP02N Coffee Natural
- NEP03N Sand Natural
- NEP04N Bone Natural
- NEP05N Dove Natural
- NEP06N Olive Natural
- NEP07N Gunmetal Natural

* Not available in 600 x 600mm

All mosaics
- NEP1LM Cream Lapato
- NEP2LM Coffee Lapato
- NEP3LM Sand Lapato
- NEP4LM Bone Lapato
- NEP5LM Dove Lapato
- NEP6LM Olive Lapato
- NEP7LM Gunmetal Lapato

* Not available in Round top skirtings

Skirting

- 600 x 90mm - Round top
- 400 x 90mm - Round top
- 300 x 90mm - Round top
- 600 x 90mm - Square top
- 400 x 90mm - Square top
- 300 x 90mm - Square top

Neptune Bone and Olive Natural

Please turn over to view available colours...

Two finishes combine form and function.

Examples below are not to scale but have been enlarged to show detail.

Natural

Lapato

Neptune Bone and Olive Natural

Please turn over to view available colours...
Seven colours offering a neutral and contemporary palette.
**Pools** is available in **two sizes**, perfectly designed for seamless installation.

**Size**

<table>
<thead>
<tr>
<th>Size</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 x 125mm</td>
<td>122</td>
</tr>
<tr>
<td>250 x 62mm</td>
<td>052</td>
</tr>
</tbody>
</table>

**Mosaic**

Sheet size: 310 x 330mm

<table>
<thead>
<tr>
<th>Size</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 x 25mm</td>
<td>313</td>
</tr>
<tr>
<td>25 x 25mm</td>
<td>320</td>
</tr>
</tbody>
</table>

**Thickness**

250 x 125mm and 250 x 62mm tiles in this range are 8mm thick. All mosaic tiles are 5mm thick. For fitting thicknesses, please refer to illustrations below.

**Fitting**

<table>
<thead>
<tr>
<th>Fitting</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 x 125 x 25mm</td>
<td>007</td>
</tr>
<tr>
<td>Fingergrip</td>
<td></td>
</tr>
<tr>
<td>250 x 250 x 23mm</td>
<td>204</td>
</tr>
<tr>
<td>Shallow channel</td>
<td></td>
</tr>
<tr>
<td>250 x 46 x 8mm</td>
<td>37</td>
</tr>
<tr>
<td>Bead internal</td>
<td></td>
</tr>
<tr>
<td>250 x 46 x 8mm</td>
<td>114</td>
</tr>
<tr>
<td>Bead internal three ways</td>
<td></td>
</tr>
</tbody>
</table>

**N.B**

The Fingergrip and Fingergrip internal and external corner tiles are only available in the three dual colour options.

**Availability**

Due to the complex nature of this range, please visit our website for full, up-to-date availability:

http://www.johnson-tiles.com/catalog/range/pools/

**Two finishes** combine form and function.

Examples below are not to scale but have been enlarged to show detail:

- **Smooth**
- **Antislip**
14 colours offering a vibrant and contemporary palette.

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

Pools White, Azure, Marine and Ultra Marine Smooth
**Refine** is available in **seven sizes**, perfectly designed for seamless installation.

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 x 600mm</td>
<td></td>
</tr>
<tr>
<td>800 x 300mm</td>
<td></td>
</tr>
<tr>
<td>600 x 600mm</td>
<td></td>
</tr>
<tr>
<td>900 x 900mm</td>
<td></td>
</tr>
<tr>
<td>600 x 100mm</td>
<td></td>
</tr>
<tr>
<td>600 x 300mm</td>
<td></td>
</tr>
<tr>
<td>900 x 100mm</td>
<td></td>
</tr>
</tbody>
</table>

**Mosaic**
- Sheet size 300 x 300mm
- Mixed strips
- 150 x 30mm
- 30 x 30mm

**Skirting**
- 900 x 50mm - Bevel top
- 600 x 50mm - Bevel top

**Thickness**
- All tiles in this range are 11mm thick.

**Availability**

<table>
<thead>
<tr>
<th>All sizes</th>
<th>All mosaics</th>
<th>All skirtings</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF01N Dune Natural</td>
<td>REF01M Dune Natural</td>
<td>REF01NS Dune Natural</td>
</tr>
<tr>
<td>REF02N Pewter Natural</td>
<td>REF02M Pewter Natural</td>
<td>REF02NS Pewter Natural</td>
</tr>
<tr>
<td>REF03N Lava Stone Natural</td>
<td>REF03M Lava Stone Natural</td>
<td>REF03NS Lava Stone Natural</td>
</tr>
<tr>
<td>REF04N Basalt Natural</td>
<td>REF04M Basalt Natural</td>
<td>REF04NS Basalt Natural</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skirting sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 x 50mm - Bevel top</td>
</tr>
<tr>
<td>600 x 50mm - Bevel top</td>
</tr>
</tbody>
</table>

**Four colours** offering a neutral and contemporary palette.

- Natural
- Grip
- Dune
- Pewter
- Lava Stone
- Basalt

**Two finishes** combine form and function.
- Examples below are not to scale but have been enlarged to show detail.

- Natural
- Grip

*Not available in 900 x 450mm, 1800 x 300mm and 1800 x 600mm*
**Sagittarius Slim** is available in **four sizes**, perfectly designed for seamless installation.

### Size

<table>
<thead>
<tr>
<th>Size</th>
<th>3000 x 1000mm</th>
<th>1000 x 1000mm</th>
<th>1000 x 500mm</th>
<th>500 x 500mm</th>
</tr>
</thead>
</table>

### Mosaic

<table>
<thead>
<tr>
<th>Sheet size 500 x 250mm</th>
<th>Sheet size 500 x 500mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 x 10mm</td>
<td>100 x 25mm</td>
</tr>
<tr>
<td>50 x 25mm</td>
<td>25 x 25mm</td>
</tr>
</tbody>
</table>

### Thickness

All tiles in this range are **3.5mm thick**.

### Availability

<table>
<thead>
<tr>
<th>All sizes</th>
<th>All mosaics</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLM05N Dove Natural</td>
<td>SLM05WWM Dove Natural</td>
</tr>
<tr>
<td>SLM06N Pumice Natural</td>
<td>SLM06WWM Pumice Natural</td>
</tr>
<tr>
<td>SLM07N Gunmetal Natural</td>
<td>SLM07WWM Gunmetal Natural</td>
</tr>
<tr>
<td>SLM08N Graphite Natural</td>
<td>SLM08WWM Graphite Natural</td>
</tr>
</tbody>
</table>

---

**One finish**

Example below is not to scale but has been enlarged to show detail.

![Natural](image)

**Four colours** offering a neutral and contemporary palette.

- Dove
- Pumice
- Gunmetal
- Graphite

---
**Sagittarius Slim Gouache** is available in five sizes, perfectly designed for seamless installation.

### Size

- **3000 x 1000mm**
- **1000 x 500mm**
- **500 x 500mm**
- **1000 x 49mm**
- **500 x 49mm**

### Mosaic

<table>
<thead>
<tr>
<th>Sheet size</th>
<th>(Almond, Coffee, Lava and Sand Mix)</th>
<th>(Almond, Gunmetal, Lava, Pumice and Slate Mix)</th>
<th>(Almond, Gunmetal, Lava, Pumice and Coffee Mix)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90mm - Triangle</td>
<td>SS10WM</td>
<td>SS11WM</td>
<td>SS12WM</td>
</tr>
<tr>
<td>223 x 154mm</td>
<td>SS10WM</td>
<td>SS11WM</td>
<td>SS12WM</td>
</tr>
</tbody>
</table>

### Thickness

All wall tiles in this range are 3mm thick. All other tiles are 3.5mm thick.

### Availability

<table>
<thead>
<tr>
<th>All sizes</th>
<th>SS01W Almond Natural Wall</th>
<th>SS02W Sand Natural Wall</th>
<th>SS03W Coffee Natural Wall</th>
<th>SS04W Pumice Natural Wall</th>
<th>SS05W Slate Natural Wall</th>
<th>SS06W Lava Natural Wall</th>
<th>SS07W Gunmetal Natural Wall</th>
<th>SS09W Black Natural Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>500 x 500mm</strong></td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
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<td>Not available</td>
</tr>
<tr>
<td><strong>1000 x 49mm</strong></td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>1000 x 1000mm</strong></td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Two finishes combine form and function.**

Examples below are not to scale but have been enlarged to show detail:

- **Natural Wall**
- **Natural Floor**

Please turn over to view available colours...

**Sagittarius Slim Gouache** Gunmetal and Almond, Gunmetal, Pumice and Slate Mix Triangles Mosaic
Nine colours offering a neutral and contemporary palette.

- Milk
- Almond
- Sand
- Pumice
- Coffee
- Slate
- Lava
- Gunmetal
- Black

Sagittarius Slim Gouache Gunmetal and Almond, Gunmetal, Pumice and Slate Mix Triangles Mosaic
Sagittarius Slim Lines is available in one bold and impactful size.

**Size**
3000 x 1000mm

**Thickness**
All tiles in this range are 3.5mm thick.

**Availability**
All sizes
SSL01W Blue Natural
SSL02W Yellow Natural
SSL03W Grey Natural

One finish
Example below is not to scale but has been enlarged to show detail.

Three colours offering a neutral and contemporary palette.

Yellow
Blue
Grey

Sagittarius Slim Lines Blue
**Sagittarius Slim Mauk** is available in **three sizes**, perfectly designed for easy installation.

<table>
<thead>
<tr>
<th>Size</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 x 577mm - Diamond</td>
<td>260 x 87mm - Trapezium</td>
</tr>
<tr>
<td>385mm - Triangle</td>
<td>260 x 87mm - Trapezium</td>
</tr>
</tbody>
</table>

**Thickness**

- 260 x 87mm - Trapezium tiles in this range are 3mm thick.
- All other tiles are 3.5mm thick.

**Availability**

- SSM02W Dove Natural *
- SSM02N Dove Natural **
- SSM06W Pumice Natural ***
- SSM06N Gunmetal Natural ****
- SSM07W Gunmetal Natural *
- SSM07N Gunmetal Natural

* Only available in 260 x 87mm - Trapezium
** Not available in 385mm - Triangle
*** Not available in 260 x 87mm - Trapezium

**One finish**

Example below is not to scale but has been enlarged to show detail.

**Three colours** offering a neutral and contemporary palette.

- Dove
- Pumice
- Gunmetal

Sagittarius Slim Lines Blue
**Sagittarius Slim Waves** is available in one bold and impactful size.

**Size**

3000 x 1000mm

**Thickness**

All tiles in this range are 3mm thick.

**Availability**

- All sizes: SSW01W Blue A Natural
- SSW02W Blue B Natural
- SSW03W Green A Natural
- SSW04W Green B Natural
- SSW05W Grey A Natural
- SSW06W Grey B Natural

---

**Three colours** offering a neutral and contemporary palette.

- Blue A
- Green A
- Grey A
- Blue B
- Green B
- Grey B

---

**One finish**

Example below is not to scale but has been enlarged to show detail.

**Natural**
Selene is available in two sizes, perfectly designed for easy installation.

Size

| 300 x 150mm | 130 x 114mm - Hexagon |

Mosaic

Sheet size 450 x 200mm.

| 130 x 114mm - Hexagon |

Availability

<table>
<thead>
<tr>
<th>All sizes</th>
<th>All mosaics</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEL01N White Matt *</td>
<td>SEL01N White Matt Décor</td>
</tr>
<tr>
<td>SEL02N Black Matt *</td>
<td>SEL02N Black Matt Décor</td>
</tr>
<tr>
<td>SEL01A White Design A Matt Décor **</td>
<td>SEL01A White Design A Matt Décor</td>
</tr>
<tr>
<td>SEL01B White Design B Matt Décor **</td>
<td>SEL01B White Design B Matt Décor</td>
</tr>
<tr>
<td>SEL01C White Design C Matt Décor **</td>
<td>SEL01C White Design C Matt Décor</td>
</tr>
<tr>
<td>SEL01D White Design D Matt Décor **</td>
<td>SEL01D White Design D Matt Décor</td>
</tr>
<tr>
<td>SEL02A Black Design A Matt Décor **</td>
<td>SEL02A Black Design A Matt Décor</td>
</tr>
<tr>
<td>SEL02B Black Design B Matt Décor **</td>
<td>SEL02B Black Design B Matt Décor</td>
</tr>
<tr>
<td>SEL02C Black Design C Matt Décor **</td>
<td>SEL02C Black Design C Matt Décor</td>
</tr>
<tr>
<td>SEL02D Black Design D Matt Décor **</td>
<td>SEL02D Black Design D Matt Décor</td>
</tr>
</tbody>
</table>

* Only available in 500 x 150mm
** Only available in 130 x 114mm - Hexagon

Thickness

All tiles in this range have an undulating surface, but have a maximum thickness of 10mm.

N.B

A mixture of all four designs are used to create the hexagon mosaics.

Two colours offering a monochrome and contemporary palette.

White

Black

Four designs

Design A

Design B

Design C

Design D

Two finishes combine form and function.

Examples below are not to scale but have been enlarged to show detail.

Matt

Matt Décor
**Soho** is available in one subtle and versatile size.

**Size**

140 x 140mm

**Availability**

- SOH01A  White  Matt
- SOH02A  Beige  Matt
- SOH02B  Beige Cube Décor  Matt
- SOH02C  Beige Diamond Décor  Matt
- SOH03A  Grey  Matt
- SOH03B  Grey Tulip Décor  Matt
- SOH04A  Blue  Matt
- SOH04B  Blue Square Décor  Matt
- SOH04C  Blue Cube Décor  Matt
- SOH04D  Blue Circles Décor  Matt

**Thickness**

All tiles in this range are 8mm thick.

**One finish**

Example below is not to scale but has been enlarged to show detail.

- **Matt**

**10 colours** offering a neutral and contemporary palette.

- White
- Beige Cube Décor
- Blue Square Décor
- Beige
- Beige Diamond Décor
- Blue Cube Décor
- Grey
- Grey Tulip Décor
- Blue Circles Décor
- Blue
Sokrates is available in one bold and impactful size.

Size
600 x 300mm

Mosaic
Sheet size: 600 x 300mm
Sheet size: 300 x 300mm

Availability
All sizes
SOK03N Pumice Natural
SOK04N Dove Natural
SOK05N Gunmetal Natural
SOK07N Bone Natural

All mosaics
SOK13T Pumice Textured
SOK14T Dove Textured
SOK15T Gunmetal Textured
SOK17T Bone Textured

All skirtings
SOK33N Pumice Natural
SOK43N Dove Natural
SOK53N Gunmetal Natural
SOK73N Bone Natural

Thickness
All tiles in this range are 9mm thick.

Skirting
300 x 95mm - Round top

Four colours offering a neutral and contemporary palette.

Bone
Dove
Pumice
Gunmetal

Two finishes combine form and function.
Examples below are not to scale but have been enlarged to show detail.

Sokrates Bone Textured
Two finishes combine form and function.
Examples below are not to scale but have been enlarged to show detail:

**Size**
- 150 x 75mm - Liso M
- 150 x 75mm - Canale M
- 150 x 75mm - Peak
- 150 x 75mm - Delta M
- 300 x 75mm - Liso XL
- 300 x 75mm - Dome
- 300 x 75mm - New Bevel
- 300 x 75mm - Delta XL
- 300 x 75mm - Arch XL

**Fitting**
- 8 x 8mm - Edge Corner

**Thickness**
All tiles in this range have a minimum thickness of 8mm and a maximum thickness of 17mm.

**N.B**
Canale M and Peak have 8 different variations on the design and are randomly mixed within each carton.

**Availability**

<table>
<thead>
<tr>
<th>Liso M and Liso XL</th>
<th>Canale M</th>
<th>Peak</th>
<th>Delta M and Delta XL</th>
<th>Dome</th>
<th>New Bevel</th>
<th>Arch XL</th>
<th>Edge M, Edge XL and Edge Corner</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUB01L Ash Grey Gloss</td>
<td>SUB02C Ash Grey Gloss</td>
<td>SUB01F Ash Grey Gloss</td>
<td>SUB02D Ash Grey Matt</td>
<td>SUB01O Ash Grey Gloss</td>
<td>SUB01B Ash Grey Gloss</td>
<td>SUB01E Ash Grey Matt</td>
<td></td>
</tr>
<tr>
<td>SUB03L Cotton Gloss</td>
<td>SUB02C Cotton Gloss</td>
<td>SUB003F Cotton Gloss</td>
<td>SUB03D Cotton Gloss</td>
<td>SUB01O Cotton Gloss</td>
<td>SUB003B Cotton Gloss</td>
<td>SUB003E Cotton Matt</td>
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</tr>
<tr>
<td>SUB04L Earth Gloss</td>
<td>SUB02C Earth Gloss</td>
<td>SUB003P Earth Gloss</td>
<td>SUB03D Earth Matt</td>
<td>SUB01O Earth Gloss</td>
<td>SUB003B Earth Gloss</td>
<td>SUB003E Earth Matt</td>
<td></td>
</tr>
<tr>
<td>SUB06L Graphite Gloss</td>
<td>SUB02C Graphite Gloss</td>
<td>SUB003P Graphite Gloss</td>
<td>SUB03D Graphite Matt</td>
<td>SUB01O Graphite Gloss</td>
<td>SUB003B Graphite Gloss</td>
<td>SUB003E Graphite Matt</td>
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<tr>
<td>SUB11L Natural Gloss</td>
<td>SUB02C Natural Gloss</td>
<td>SUB003F Natural Gloss</td>
<td>SUB03D Natural Matt</td>
<td>SUB01O Natural Gloss</td>
<td>SUB003B Natural Gloss</td>
<td>SUB003E Natural Matt</td>
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<td>SUB02L Pearl Gloss</td>
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<td>SUB003F Pearl Gloss</td>
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<td>SUB01O Pearl Gloss</td>
<td>SUB003B Pearl Gloss</td>
<td>SUB003E Pearl Matt</td>
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</table>

Please turn over to view available colours...
Seven colours offering a neutral and contemporary palette.

Ice White
Natural
Cotton
Earth
Pearl
Ash Grey
Graphite
**Tactile** is available in **one** bold and impactful size.

Size

400 x 400mm

**Availability**

All sizes

- KBLIS1 Graphite Blistter
- KBLIS2 Stone Blistter
- KCORD1 Graphite Corduroy
- KCORD2 Stone Corduroy

**Thickness**

All tiles in this range are 10mm thick.

**Two finishes** combine form and function.

Examples below are not to scale but have been enlarged to show detail.

- **Blistter**
- **Corduroy**

**Two colours** offering a neutral and contemporary palette.

- **Stone**
- **Graphite**

Tactile Stone Corduroy and Kerastar Hail Natural
Tetra is available in six sizes, perfectly designed for seamless installation.

Size

- 600 x 600mm
- 600 x 300mm
- 800 x 300mm
- 800 x 200mm
- 800 x 400mm
- 800 x 600mm

Thickness
600 x 100mm and 600 x 300mm tiles in this range are 10mm thick. 800 x 800mm tiles are 12mm thick. All other tiles are 11mm thick.

Décor

- 800 x 400mm - City
- 800 x 200mm - Wave
- 600 x 100mm - Wave

Mosaic
Sheet size 300 x 300mm

- 300 x 300mm
- Mixed strips

Availability

All sizes
- TET01N Ivory Natural
- TET02N Putty Natural
- TET03N Dove Natural
- TET04N Slate Natural
- TET05N Graphite Natural

All décors
- TET1NW Ivory Wave Natural
- TET2NW Putty Wave Natural
- TET3NW Dove Wave Natural
- TET4NW Slate Wave Natural
- TET5NW Graphite Wave Natural

All mosaics
- TET1NM Ivory Lapato
- TET2NM Putty Lapato
- TET3NM Dove Lapato
- TET4NM Slate Lapato
- TET5NM Graphite Lapato

* Only available in 600 x 600mm and 800 x 600mm

Five colours offering a neutral and contemporary palette.

Ivory

Putty

Dove

Slate

Graphite

Three finishes combine form and function.
Examples below are not to scale but have been enlarged to show detail:

Natural

Lapato

Grip
Technical

Detailed information on slip resistance, colour notations and CSV, PEIs, physical properties, installation and leaning and maintenance for all of the tiles illustrated in this brochure.
Slip resistance

HSE slip resistance guidelines

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.

Slip resistance of a floor depends upon many factors:

- The roughness of the surface.
- Whether it is wet or dry when in use.
- Whether the floor finish is regularly contaminated by liquids or other contaminants.
- The wear characteristics of the floor finish.
- Implementation of a suitable cleaning and maintenance schedule.

In addition to the above there are other factors that can affect the slip resistance and performance characteristics of a floor finish; these include:

- Lighting and glare.
- Humidity.
- Stains and marks.
- Visual or acoustic distractions.
- Type of footwear worn.

Where there is a change of floor material or texture there is an increased risk of slipping or tripping; therefore it is essential that the surface of the two materials varies greatly. This can be minimised by locating the materials to change at predictable locations i.e. door or wall openings.

Slip resistant floor finishes are recommended for use in areas where safety is paramount i.e. entrances, ramps, stairs and landings, escape routes, commercial kitchen areas, adjacent to hazardous machinery or activities and areas subject to frequent wetting i.e. shower floors, swimming pool surrounds – this is not an exhaustive list.

Based on recommendations from the HSE, you should use floor finishes that achieve a Pendulum 4S (Slider 96) of 36+ for shod foot areas and/or a Pendulum 4S (Slider 96) of 35+ for wet barefoot areas, to achieve a low slip potential environment.

We personally suggest using a structured tile with R Ratings (DIN 51130) – this is not an exhaustive list.

Falls in floors

Where fluid contamination cannot be avoided HSE guidance recommends that floors be laid to falls so that the majority of the contamination drains away to properly constructed outlets. The use of profiled tiles allows the contaminant to collect in the low areas whilst the high areas remain relatively dry or at least above the surface of the contaminant. The degree of slope of a fall depends upon many factors including – surface contaminant, degree of usage, affected area etc. As an example a minimum fall of 1/50 is recommended in the “Specifiers Handbook for Inclusive Design – Internal Floor Finishes” available from RIBA Bookshops for areas that are frequently or permanently wet.

Floor finishes should also be easy to clean and stain resistant to maintain hygiene.

Pendulum test

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 flooring products in the laboratory or in-situ and uses a swinging test apparatus which simulates the act of walking over the flooring material.

Pendulum 4S (Slider 96) for Shod Trafficked Areas

The 4S Slider 96 replicates typical shod trafficking. Products are tested dry and with a water lubricant and then classified into one of three groups as an indication of their suitability. Products for wet trafficked areas should have the highest grade of slip resistance.

Pendulum TRRL (Slider 55) for Wet Barefoot Areas

The TRRL Slider 55 replicates wet barefoot trafficking such as wet changing rooms, pool surrounds, showers etc. Products are tested with a water lubricant and then classified into one of three groups as an indication of their suitability. Products for wet barefoot areas should have the highest grade of slip resistance.

Commercial kitchens

Hygiene and slip resistance are extremely important in commercial kitchens. Kitchens are likely to not only receive water contamination but also wet and dry foods and oils and greases from cooking either through spillage or splashing.

Floors for commercial kitchens should provide sufficient surface roughness to create a slip resistant finish. Roughness values of over 200 µm are normally adequate ("Specifiers Handbook for Inclusive Design – Internal Floor Finishes" available from RIBA Bookshops) for areas that are frequently or permanently wet.

Surface microroughness

Testing surface microroughness with a roughness meter, is subject to on-going research and subject to a British Standard (BS 9174) – This is not used as a guide only. It must be noted that slip resistance values can vary from production batch to production batch in all floor tiles so specific batch testing should be carried out before installation. Johnson Tiles cannot be held liable for any variations in slip resistance performance once product has been fixed.

*Further information is available at www.hse.gov.uk.*
### Slip resistance ratings

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</table>

*Due to the manufacturing process of all floor tiles there may be small variations in slip resistance. Given this, we suggest you refer to our website or call our technical helpline for the most up-to-date information.*

### Colour notations and CSV

#### 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 unattainable 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 specific example of ceramic tiles this difference should be between:

- Floors to walls
- Ceiling to walls
- Handrails to walls
- Sanitary fittings to walls

Visual contrast between floors and walls is important in enabling visually impaired people to assess and gauge the size and shape of a room. It is important the greatest visual contrast occurs where the floor meets the wall (skirting) as this gives the most accurate visual indication of the extent of the room. Where provided, skirting’s should contrast visually with the floor and be similar in colour and tone to wall surface.

This information is not exhaustive and the requirements at the time of specification must be checked.

BS8300:2001 Amendment 1 indicates that there is anecdotal evidence to suggest that a 20 point LRV difference may be sufficient – especially where large adjacent areas are involved.

It must be noted that the guidance on LRV values given in this brochure is correct at the time of print.

This is a subject that may be reviewed by the regulatory body at any time so it is advisable to check the guidelines at the time of specification of product.

#### Colour shade variation (CSV)

Colour shade variation (CSV) values are assigned to wall and floor tiles in this binder. These values must only be used as a guide. Products within this binder have a CSV value of:

- **V1 low variation**
  - Least possible shade variation between tiles in a box. When installed and mixed correctly, the effect is a consistent overall appearance.

- **V2 moderate 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 high 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 random 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 variance in the installation. This high shade variance is a design feature of V4 rated tiles.
### Colour notations values

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<tr>
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<td>10</td>
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<td>BAS05N</td>
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<tr>
<td>Centaurus</td>
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<td>V2</td>
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<td>V1</td>
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</tbody>
</table>

### Technical

#### Notes
- These results are from Johnson Tiles’ internal test reports and are to be used for guidance only.
- LRV: Light Reflectance Value (Reference 1).

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- LRV: Light Reflectance Value (Reference 1).
Sagittarius Slim Gouache

Te tra Dove

Subway Lab Ash Grey

Soho Beige

Selene Black

Sagittarius Slim Waves

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Sagittarius Slim Mauk Dove

Sagittarius Slim Lines

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Sagittarius Slim Waves

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Selene

Seleno

Soho

SCH02A

SCH04A

SCH03A

SCH01A

SCH02B/3/4B

SCH02C/4C

SCH04D

Sokrates

SOK07N/7T

SOK04N/4T

SOK05N/ST

SOK03N/ST

Subway Lab

SUB01L/C/P/E/O/B/A

SUB02L/C/P/E/O/B/A

SUB03L/C/P/E/O/B/A

SUB04L/C/P/E/O/B/A

SUB05L/C/P/E/O/B/A

SUB06L/C/P/E/O/B/A

SUB07L/C/P/E/O/B/A

SUB08L/C/P/E/O/B/A

SUB09L/C/P/E/O/B/A

SUB1L/C/P/E/O/B/A

SUB1L/C/P/E/O/B/A

SUB1L/C/P/E/O/B/A

Tactile

KBS15/L/KORD1

KBS15/L/KORD2

Tetra

TET03N/3L/5G

TET05N/5L/5G

TET01N/1L

TET03N/2L/2G

TET04N/4L/4G

Note: These results are from Johnson Tiles’ internal test reports and are to be used for guidance only.

NCS

LRV

CSV

Range | Code | Colour | NCS | LRV | CSV
--- | --- | --- | --- | --- | ---
Sagittarius Slim Gouache | SSG01N | Almond | 2005-Y60R | 54 | V2
SSG09N | Black | 8000-N | 8 | V2
SSG03N | Coffee | 5005-Y50R | 24 | V2
SSG07N | Gunmetal | 7502-B | 10 | V2
SSG06N | Lava | 7502-R | 10 | V2
SSG08N | Milk | 1002-Y50R | 73 | V2
SSG04N | Pumice | 3501-B | 57 | V2
SSG02N | Sand | 3005-Y50R | 40 | V2
SSG05N | Slate | 5000-N | 26 | V2

Sagittarius Slim Lines

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Sagittarius Slim Mask

SM05N/SW

SM07N/SW

SM06N

Sagittarius Slim Waves

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Soho

SCH02A

SCH04A

SCH03A

SCH01A

SCH02B/3/4B

SCH02C/4C

SCH04D

Selene

SEL02N

SEL01N

Soho

SCH02A

SCH04A

SCH03A

SCH01A

Soh2B/3/4B

Soh2C/4C

Soh4D

Selene

Seleno

Soho

SCH02A

SCH04A

SCH03A

SCH01A

Soh2B/3/4B

Soh2C/4C

Soh4D

Selene

Seleno

Soho

SCH02A

SCH04A

SCH03A

SCH01A

Soh2B/3/4B

Soh2C/4C

Soh4D

Subway Lab

SUB01L/C/P/E/O/B

SUB02L/C/P/E/O/B

SUB03L/C/P/E/O/B

SUB04L/C/P/E/O/B

SUB05L/C/P/E/O/B

SUB06L/C/P/E/O/B

SUB07L/C/P/E/O/B

SUB08L/C/P/E/O/B

SUB09L/C/P/E/O/B

SUB1L/C/P/E/O/B

SUB1L/C/P/E/O/B

SUB1L/C/P/E/O/B

Tactile

KBS15/L/KORD1

KBS15/L/KORD2

Tetra

TET03N/3L/5G

TET05N/5L/5G

TET01N/1L

TET03N/2L/2G

TET04N/4L/4G

Technical
### Technical

#### Physical properties

<table>
<thead>
<tr>
<th>Test</th>
<th>Standard</th>
<th>Requirement</th>
<th>Typical test value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length/width</td>
<td>EN ISO 10545-2</td>
<td>±0.5% ≤ ±2mm</td>
<td>Pass</td>
</tr>
<tr>
<td>Straightness of side</td>
<td>EN ISO 10545-2</td>
<td>±0.3% ≤ ±1.5mm</td>
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<tr>
<td>Water absorption</td>
<td>EN ISO 10545-3</td>
<td>≤ 0.5%</td>
<td>Pass</td>
</tr>
<tr>
<td>Modulus of rupture</td>
<td>EN ISO 10545-4</td>
<td>≤ 0.5%</td>
<td>Pass</td>
</tr>
<tr>
<td>Frost resistance</td>
<td>EN ISO 10545-12</td>
<td>-</td>
<td>Not suitable</td>
</tr>
<tr>
<td>Stain resistance</td>
<td>EN ISO 10545-14</td>
<td>Min Class 3</td>
<td>Pass</td>
</tr>
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### Vitrified tile

<table>
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<th>Test</th>
<th>Standard</th>
<th>Requirement</th>
<th>Typical test value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length/width</td>
<td>EN ISO 10545-2</td>
<td>±0.6% ≤ ±2mm</td>
<td>Pass</td>
</tr>
<tr>
<td>Straightness of side</td>
<td>EN ISO 10545-2</td>
<td>±0.5% ≤ ±1.5mm</td>
<td>Pass</td>
</tr>
<tr>
<td>Water absorption</td>
<td>EN ISO 10545-3</td>
<td>≤ 0.5%</td>
<td>Pass</td>
</tr>
<tr>
<td>Modulus of rupture</td>
<td>EN ISO 10545-4</td>
<td>Min 22N/mm²</td>
<td>Pass</td>
</tr>
<tr>
<td>Frost resistance</td>
<td>EN ISO 10545-12</td>
<td>-</td>
<td>Not suitable</td>
</tr>
<tr>
<td>Stain resistance</td>
<td>EN ISO 10545-14</td>
<td>Min Class 3</td>
<td>Pass</td>
</tr>
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</table>

### Porcelain tile

<table>
<thead>
<tr>
<th>Test</th>
<th>Standard</th>
<th>Requirement</th>
<th>Typical test value</th>
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</thead>
<tbody>
<tr>
<td>Length/width</td>
<td>EN ISO 10545-2</td>
<td>±0.6% ≤ ±2mm</td>
<td>Pass</td>
</tr>
<tr>
<td>Straightness of side</td>
<td>EN ISO 10545-2</td>
<td>±0.5% ≤ ±1.5mm</td>
<td>Pass</td>
</tr>
<tr>
<td>Water absorption</td>
<td>EN ISO 10545-3</td>
<td>≤ 0.5%</td>
<td>Pass</td>
</tr>
<tr>
<td>Modulus of rupture</td>
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<td>Min 35N/mm²</td>
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<tr>
<td>Frost resistance</td>
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<tr>
<td>Stain resistance</td>
<td>EN ISO 10545-14</td>
<td>Min Class 3</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### Installation advice

#### Codes of Practice

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

- **BS5385 Part 1 – 1995** (Code of practice for the design and installation of internal wall tiling and mosaics in normal conditions)
- **BS5385 Part 2 – 2006** (Code of practice for the design and installation of external ceramic wall tiling and mosaics)
- **BS5385 Part 3 – 1989** (Code of practice for the design and installation of ceramic floor tiles and mosaics)
- **BS5385 Part 4 – 1992** (Code of practice for ceramic tiling and mosaic in specific conditions)
- **BS8000 Section 1 1.1 – 1989** (Workmanship on Building Sits, Part 11, Code of practice for wall and floor tiling)

Floor and cladding tiles are made from quality refined raw materials and are un-glazed class B1a (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.

#### 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

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.

#### 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 fitted with a suitable backer, bond breaker and filler (e.g. epoxy polysulphide) or 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 12004, Class C2*. Particular adhesive choice will be governed by the substrate.

#### Grouts

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

For general floor tiling grouts should be class C2G i.e. Johnson Professional Wide Flexible Grout.

For floors subject to frequent wetting i.e. showers and pool halls grout should be class C2G for hard water areas or RG1 for soft water areas i.e. Johnson Professional 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. Johnson Professional Easy Clean epoxy.

For specific adhesive or grout advice please contact Johnson Professional helpline 0870 609 2851.

#### Grouting of porcelain tiles

Grout (CG2), Easy Clean Epoxy (RG1).

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

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**Technical**

**Cleaning and maintenance**

**Wall tiles**

**Builders Clean**

This should be undertaken prior to wall being brought into use. The builders clean removes cement and residual film left over from grouting process and is a one-off cleaning process. It is important that this is carried out professionally and thoroughly as any grout residues left behind will act as a key for dirt.

**Cementitious Grouts**

The use of a mild acid decementing solution followed by thorough rinsing will remove all but the most stubborn of cement residues.

**Epoxide Grouts**

In normal conditions ceramic tiles require little maintenance. Un-glazed porcelain floor tiles can be maintained by sweeping and cleaning with warm water to which a neutral or nearly neutral detergent has been added. The cleaning solution should be allowed to remain on the floor for 5 to 15 minutes to allow it to penetrate and emulsify the dirt, after which it should be removed by rinsing thoroughly with clean water. It is the rinsing process which removes the dirt so the use of clean water is essential.

**Mechanical Floor Cleaning**

When cleaning large floor areas or areas of textured floor tiles mechanical scrubbing machines can be used – although they should not be used at over 450rpm. Rotary scrubbing machines fall into 3 categories, Rotary Action, Contra-Rotating and Cylindrical, and choice of brush is important on all three. Union brushes are suitable for light washing and scrubbing whereas Polypropylene brushes are more suitable when dirt deposits are especially heavy. The cleaning solution should be allowed to remain in contact with the dirt for 5 to 15 minutes after which a secondary scrubbing action and clean mop or suction should be undertaken to remove the dirt and solution.

**High Pressure Floor Cleaning**

This is not often required with modern porcelain floor tiles. While the process will not damage the tiles, care must be taken to avoid erosion of the grouting medium. It is important to ensure that the water beam is not allowed to concentrate on the joints but is moved side to side in a continuous flowing movement avoiding joints wherever possible. Water containing abrasives or steam cleaners must NEVER be used on any ceramic tiles.

**Periodic Deep Cleaning**

Occasionally foreign matter may cause surface marks on tiles. If the surface mark cannot be removed with the normal cleaning procedures detailed above, other cleaning materials should be considered. It is advisable to try a small inconspicuous area first.

**Paint, Paint remover**

Organic stains Bleach or a one-off treatment with washing soda

Rust Masonry cleaner

Rubber Abrasive powder or liquid but not on glazed tiles

Oil, fat, grease Detergent or degreasers

Mould growth Household bleach or proprietary cleaner

Tea, coffee, ink Household bleach or proprietary cleaner

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

**Floor tiles**

**Builders Clean**

This should be undertaken prior to floor being used. The builders clean removes cement and residual film left over from the grouting process and is a one-off cleaning process. It is important that this is carried out professionally and thoroughly as any grout residues left behind will act as a key for dirt.

**Cementitious Grouts**

The use of a mild acid decementing solution followed by thorough rinsing will remove all but the most stubborn of cement residues.

**Epoxide Grouts**

It is essential that ALL residues from the grouting process are removed from the tile’s surface before the resin cures. If you don’t do this, it will become a very difficult and expensive cleaning process using gel-type epoxide removers.

**Epoxide Grouts**

Glazed wall tiles can be wiped with warm water to which a neutral or nearly neutral detergent has been added.

**Periodic Deep Cleaning**

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Where to find us

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