

## Technical Data Sheet

Product Category	<b>Porcelain</b>
Product name	<b>Porcelain Paver</b>
Material	<b>Porcelain</b>
Finish	<b>Textured</b>
Colour Options	<b>Marble Grey, Riverstone, Sandbar, Slate, Toi Toi, Platinum, Iron, White Sands</b>

Urban Paving’s Porcelain Pavers are designed to elevate the aesthetic and functional appeal of any outdoor space. Urban Paving’s Porcelain Pavers with various colours providing a sleek and contemporary look ideal for various applications. These pavers are perfect for residential patios, walkways, and general light traffic areas. Our manufacturing process ensures they can withstand significant foot traffic and weather conditions, making them a versatile choice for both aesthetic and practical outdoor projects.

Size (mm)	Thickness (mm)	Number per m <sup>2</sup>	Weight per Paver (kg)	Number per Pallet	Weight per Pallet (kg) <small>*excludes pallet weight</small>
600 x 600	20	2.78	17	80	1360

### Other

	Size (mm)	Thickness (mm)	Edge (mm)	Weight per Paver (kg)	Number per Pallet	Weight per Pallet (kg) <small>*excludes pallet weight</small>
Drop Face	600 x 400	30	20/60	13	44	572
Drop Face	600 x 300	30	20/60	11	44	484

Imported from China.

## Relevant Building Code Clauses

**B1 Structure - B1.3.1** - Urban Paving’s Porcelain Pavers are made kiln fired porcelain and meet or exceed NZS 4456.5:2003 for breaking load and Modulus of Rupture.

**B2 Durability - B2.3.1** - Urban Paving’s Porcelain Pavers have durability of 10 years when laid and installed correctly.

**D1 – Assess Routes - D 1.3.3(d)** - Urban Paving’s Porcelain Pavers are manufactured with a slip resistance classification minimum of W, as required by NZS 3116 when tested to AS/NZS 4586.

**F2- Hazardous materials - F2.3.1** - Urban Paving’s Porcelain Pavers are free from hazardous materials and safe for use in building projects.

## Compliance

	Test Standard	Result
Breaking Load KN (600 x 600mm)	AS/NZS 4456.5:2003	<b>9.5kN</b>
Breaking Load per 100mm KN		<b>1.6kN</b>
Modulus of Rupture		<b>32.7 MPa</b>
Coefficient of friction (COF)	AS 4586:2013	<b>0.65 V</b>
Slip Resistance Classification of New Pedestrian Surfaces		<b>59</b>
		<b>P5</b>

**V** ≥ 54 high slip resistance      **X** 35-44 low slip resistance      **Z** ≤25 Extremely low slip resistance

**W** 45-54 moderate slip resistance      **Y** 25-34 very low slip resistance

## Technical Parameters

	Test Standard	Standard	Notes
Compressive Strength	AS/NZS 4456.4:2003	>4MPa	Not tested, The typical compressive strength ranges between <b>30 to 50 MPa</b>
Water Absorption:	AS/NZS 4456.14:2003	N/A	Not tested, typically has a very low water absorption rate between <b>0.1 to 0.5%</b>
Density	AS/NZS 4456.8:2003		Density in the range of <b>2,300 to 2,500 kg/m³</b>
Frost Resistance	ASTM C1262		Not tested, Due to low water absorption low risk for frost damage
Dimensional Tolerance	AS/NZS 4456.2:2003	+/- 2mm	+/- 2mm

## Limitations

Urban Paving's Porcelain Pavers are designed for foot traffic only.

## Design requirements

Pavements should be designed in consultation with a qualified civil engineer and within the guidelines of NZS3116:2002. For small projects refer to our Installation guide here.

## Porcelain Paving Care and Handling Instructions

### Handling

- **Proper Lifting:** Always lift porcelain pavers by the edges rather than dragging or pulling to prevent chipping or cracking. Use appropriate lifting equipment when handling larger pavers to ensure safety and avoid damage.
- **Storage:** Store porcelain pavers in a dry, shaded area on a flat, stable surface. Ensure they are covered to protect against rain, dirt, and direct sunlight. Vertical storage can help prevent warping or damage to the edges.
- **Transportation:** Transport porcelain pavers carefully to minimize the risk of breakage. Use padded supports and secure the pavers to prevent movement during transport. Avoid stacking them too high to reduce the risk of cracking under their own weight.
- **Unpacking:** When unpacking porcelain pavers, take care to remove any protective packaging without using sharp objects that could scratch the surface.

### Care

- **Regular Cleaning:** Sweep the surface regularly to remove dirt, leaves, and other debris. For deeper cleaning, use a mild, pH-neutral cleaner suitable for porcelain. Avoid acidic or abrasive cleaners that can damage the surface.
- **Sealing:** Porcelain pavers typically do not require sealing due to their low water absorption rate. However, if sealing is desired to enhance stain resistance, use a high-quality sealer recommended for porcelain tiles, and follow the manufacturer's instructions.
- **Stain Removal:** If stains occur, treat them promptly using appropriate porcelain-safe cleaners. For stubborn stains, particularly oil-based ones, a poultice may be necessary to draw out the stain from the paver.
- **Avoid Heavy Impacts:** While porcelain is highly durable, heavy impacts or sharp objects can still chip or crack the surface. Exercise caution when moving furniture or heavy objects across the pavers to avoid damage.
- **Weed and Moss Control:** Regularly inspect and remove any weeds or moss that may grow between the joints of the pavers, as they can cause shifting or damage over time. Use an appropriate weed killer if necessary, ensuring it is safe for porcelain.