

## Technical Data Sheet

Product Category	<b>Natural Stone</b>
Product name	<b>Bluestone</b>
Material	<b>Bluestone</b>
Finish	<b>Honed</b>
Colour Options	<b>Bluestone #450</b>

Urban Paving's Natural Stone Pavers are designed to elevate the aesthetic and functional appeal of any outdoor space. Imported Bluestone provides a sleek and contemporary look ideal for various applications. These pavers are perfect for residential patios, walkways, and general light traffic areas. The 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>
900 x 600	20	1.85	30.3	50	1515
600 x 600	20	2.78	20.2	50	1010
600 x 300	20	5.56	10.1	100	1010

### 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	30/60	21.7	40	868
Drop Face	600 x 300	30	30/60	16.7	50	835
Corner internal	480 x 480	30	30/60	19.4	40	776
Corner external	400 x 400	30	30/60	13.5	40	540

Imported from China.

## Relevant Building Code Clauses

**B1 Structure - B1.3.1** - Urban Paving Bluestone is cut from natural stone and meet or exceed NZS 4456.5:2003 for breaking load and Modulus of Rupture.

**B2 Durability - B2.3.1** - Urban Paving Bluestone has durability of 10 years when laid and installed correctly.

**D1 – Assess Routes - D 1.3.3(d)** Urban Paving Bluestone is 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 Bluestone is free from hazardous materials and safe for use in building projects.

## Compliance

	Test Standard	Result
Breaking Load KN	AS/NZS 4456.5:2003	<b>3.9</b>
Breaking Load per 100mm KN		<b>0.6</b>
Modulus of Rupture (mean)		<b>13.4</b>
Coefficient of friction (COF)	AS 4586:2013	<b>X</b>
Slip Resistance Classification of New Pedestrian Surfaces		<b>44</b>
		<b>P3</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 for bluestone tiles generally ranges between <b>120 to 180 MPa</b>
Water Absorption:	AS/NZS 4456.14:2003	N/A	Tested to ASTM C97/C97M-09 <b>2.12%</b>
Density	AS/NZS 4456.8:2003	N/A	Tested to ASTM C97/C97M-09 <b>2610kg/m<sup>3</sup></b>
Frost Resistance	ASTM C1262	N/A	Not tested, Due to low water absorption low risk for frost damage
Dimensional Tolerance	AS/NZS 4456.2:2003	+/- 2mm	+/- 2mm

## Limitations

Urban Paving Bluestone 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.

## Bluestone Pavers Care and Handling Instructions

### Handling

- **Proper Lifting:** Always lift Bluestone pavers by the edges rather than dragging or pulling to prevent chipping or cracking. Use appropriate lifting equipment when handling larger pavers to avoid injury and damage.
- **Storage:** Store Bluestone pavers in a dry, shaded area on a flat, stable surface. Ensure the pavers are covered to protect against rain, dirt, and direct sunlight. Storing them vertically can help prevent warping or damage to the edges.
- **Transportation:** Transport Bluestone pavers carefully to avoid 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 Bluestone pavers, take care to remove any protective packaging without using sharp objects that could scratch or chip 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 natural stone. Avoid acidic or abrasive cleaners that can damage the Bluestone.
- **Sealing:** While Bluestone is naturally resistant to weathering, sealing can enhance its resistance to stains and moisture. Apply a high-quality stone sealer according to the manufacturer's instructions, and reapply as needed based on the level of traffic and exposure to the elements.
- **Stain Removal:** If stains occur, treat them promptly using appropriate stone-safe cleaners. For stubborn stains, especially oil-based ones, a poultice may be necessary to draw out the stain from the stone.
- **Avoid Heavy Impacts:** Bluestone is durable, but heavy impacts or sharp objects can still chip or crack the surface. Be cautious 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, but ensure it is safe for natural stone.