# Technical Data Sheet

| | |
|---|---|
| Product Category | **Concrete** |
| Product name | **Wet Cast Paver** |
| Material | **Concrete** |
| Finish | **Exposed Aggregate** |
| Colour Options | **Traditional, Crawford Hills, Shotover, Westland, Classic** |

Urban Paving's Wet Cast Concrete Paver with exposed aggregate finish are designed to elevate the aesthetic and functional appeal of any outdoor space. Our pavers, crafted from high-quality (35MPa) concrete to ensure durability and longevity are manufactured using the wet cast production method. The exposed aggregate finish provides 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 m² | Weight per Paver (kg) | Number per Pallet | Weight per Pallet (kg) *excludes pallet weight |
|---|---|---|---|---|---|
| 900 x 450 | 40 | 2.47 | 46 | 20 | 920 |
| 600 x 600 | 40 | 2.78 | 32 | 40 | 1280 |
| 600 x 300 | 40 | 5.56 | 16 | 60 | 960 |
| 500 x 500 | 40 | 4 | 22 | 40 | 880 |
| 500 x 250 | 40 | 8 | 11 | 60 | 660 |
| 450 x 450 | 40 | 4.94 | 18 | 40 | 720 |
| 400 x 400 | 40 | 6.25 | 15 | 40 | 600 |
| 400 x 200 | 40 | 12.5 | 7.5 | 60 | 450 |
| 300 x 300 | 40 | 11.11 | 8 | 81 | 648 |

Manufactured in Aotearoa New Zealand.

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## Relevant Building Code Clauses

**B1 Structure - B1.3.1** - Urban Paving Wet Cast pavers are all made with 35 MPA and meet or exceed NZS 4456.5:2003 for breaking load and Modulus of Rupture.

**B2 Durability - B2.3.1** - Urban Paving Wet Cast pavers have durability of 10 years when laid and installed correctly.

**D1 – Assess Routes - D 1.3.3(d)** Urban Paving Wet Cast Concrete 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 Wet Cast Concrete pavers are free from hazardous materials and safe for use in building projects.

## Compliance

**Traditional**

| | Test Standard | Result |
|---|---|---|
| Breaking Load KN (590 x590mm) | AS/NZS 4456.5:2003 | |
| Breaking Load per 100mm KN | | |
| Modulus of Rupture | | |
| Coefficient of friction (COF) | AS 4586:2013 | **0.65 (V)** |
| Slip Resistance Classification of New Pedestrian Surfaces | | **59** |
| | | **P5** |

**Crawford Hills**

| | Test Standard | Result |
|---|---|---|
| Breaking Load KN (590 x590mm) | AS/NZS 4456.5:2003 | **3.1** |
| Breaking Load per 100mm KN | | **0.5** |
| Modulus of Rupture | | **2.7** |
| Coefficient of friction (COF) | AS 4586:2013 | **0.67 (V)** |
| Slip Resistance Classification of New Pedestrian Surfaces | | **61** |
| | | **P5** |

**Shotover**

| | Test Standard | Result |
|---|---|---|
| Breaking Load KN (590 x590mm) | AS/NZS 4456.5:2003 | **2.0** |
| Breaking Load per 100mm KN | | **0.3** |
| Modulus of Rupture | | **1.7** |
| Coefficient of friction (COF) | AS 4586:2013 | **0.69 (V)** |
| Slip Resistance Classification of New Pedestrian Surfaces | | **62** |
| | | **P5** |

**Westland**

| | Test Standard | Result |
|---|---|---|
| Breaking Load KN (590 x590mm) | AS/NZS 4456.5:2003 | **5.9** |
| Breaking Load per 100mm KN | | **0.5** |
| Modulus of Rupture | | **5.1** |
| Coefficient of friction (COF) | AS 4586:2013 | **0.65 (V)** |
| Slip Resistance Classification of New Pedestrian Surfaces | | **59** |
| | | **P5** |

**Classic**

| | Test Standard | Result |
|---|---|---|
| Breaking Load KN (590 x590mm) | AS/NZS 4456.5:2003 | |
| Breaking Load per 100mm KN | | |
| Modulus of Rupture | | |
| Coefficient of friction (COF) | AS 4586:2013 | **0.65 (V)** |
| Slip Resistance Classification of New Pedestrian Surfaces | | **59** |
| | | **P5** |

**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, manufactured with 35MPa Concrete |
| Water Absorption: | AS/NZS 4456.14:2003 | N/A | Typically, residential concrete has a water absorption rate of about 5-10%. |

| | | | |
|---|---|---|---|
| Density | AS/NZS 4456.8:2003 | N/A | ambient mean 2307kg/m3 |
| Frost Resistance | ASTM C1262 | N/A | Typically, residential concrete can pass standard frost resistance tests |
| Dimensional Tolerance | AS/NZS 4456.2:2003 | +/- 2mm | +/- 2mm |

**Limitations**

Urban Paving Wet Cast 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.

**Points for Paver Care and Handling**

- Do not leave objects or tools on new pavers overnight to avoid shadow marks.
- Store uncovered pallets of pavers in a dry, protected place to avoid water marks.
- If moving pavers from the pallet, restack them as originally placed; avoid diamond or flat stacking to prevent surface shadows.
- When installing from multiple pallets, mix pavers as they are laid to accommodate colour variations and natural appearance.
- Efflorescence is a natural phenomenon where salts migrate to the surface, causing a whitish discoloration, which will settle over time. See further information here
- Higher quality and stronger concrete may exhibit more efflorescence due to higher cement content.
- Concrete is porous and can absorb stains, so promptly remove any staining materials.
- Sealing pavers can help reduce colour fading, staining, and fungal growth, enhancing the colour and slowing weathering.
- Be aware that sealing enhances the current colour and variation, "locking in" the appearance.
- Sealing does not prevent pavers from soaking up surface or ground water, which may continue to react with the concrete.

This technical data sheet provides typical properties and characteristics; actual performance may vary based on specific conditions and installation practices.