Product Technical Statement

Crown porcelain floor and wall tiles

Nov 20, 2026 · @Frank

1. Product and intended use

Crown porcelain floor and wall tiles are glazed full-body porcelain tiles for interior floors and walls in housing.

Item	Details
Product	Crown porcelain floor and wall tiles
Identifier	Crown product code shown on the carton label and on the Crown quote or invoice
Description	Glazed full-body porcelain tiles, dry-pressed and fired. ISO 13006 Group BIa. Nominal thickness 10 mm. Sizes include 600×600 mm and 600×1200 mm
Intended use	Floor and wall finish inside detached houses, townhouses and apartments, including bathrooms, laundries, kitchens and splashbacks
Manufacturer	Shandong Crown Ceramics Technology Co., Ltd, Zichuan District, Zibo, Shandong, China
Supplier	Crown Tiles Limited, Auckland, New Zealand
Issue	Version 1.0, 20 November 2026. The current version is published at www.crowntiles.co.nz

2. Building Code compliance

When installed and maintained as set out in the supporting documents, the tiles contribute to compliance with three Building Code clauses.

Clause	Contribution	Evidence
B2 Durability, B2.3.1(c)	Serviceable as a floor and wall finish for at least 5 years with normal maintenance	Meets ISO 13006 Annex G for Group BIa tiles
D1 Access routes, D1.3.3(d)	Slip-resistant walking surface	Rated R12 in the DIN 51130 ramp test
E3 Internal moisture, E3.3.3, E3.3.4 and E3.3.5	Impervious, easily cleaned surface for wet-area floors and walls once grouted	Water absorption of 0.24%

The tiles are a surface finish used as part of a tiled system. Compliance of the finished floor or wall also depends on the substrate, waterproofing membrane, adhesive and grout.

3. Evidence

The claims above rest on one independent test report. The key results are below, and the full results are in the Technical Data Sheet.

Property	Test method	Result
Water absorption	ISO 10545-3	0.24% (limit 0.5%)
Breaking strength	ISO 10545-4	2,285 N (minimum 1,300 N)
Surface abrasion	ISO 10545-7	Class 3
Crazing and frost resistance	ISO 10545-11 and ISO 10545-12	Passed
Stain resistance	ISO 10545-14	Class 5 (minimum Class 3)
Slip resistance	DIN 51130	R12

Test report no. 25201802420, issued 20 June 2018 by the Inspection and Quarantine Comprehensive Technology Centre of Foshan Entry-Exit Inspection and Quarantine Bureau. All sizes in the range are made on the same production line to the same specification.

4. Limitations and conditions of use

The tiles are a non-structural interior finish and do not waterproof a wet area on their own.

- Interior floors and walls only.

- Wet areas need a waterproofing membrane system under the tiles. Tiles and grout alone are not a waterproof barrier.
- Polished and smooth finishes are not slip-resistant when wet. Do not use them on shower floors, wet-area floors, entries, ramps or stairs.
- Surface abrasion Class 3 suits residential floors. The tiles are not for heavy commercial or industrial traffic.
- 600×1200 mm tiles are not suited to shower floors that fall to a centre waste, unless they are cut to the falls.

This statement applies only to Crown tiles supplied by Crown Tiles Limited and installed in line with the Technical Data Sheet and Installation Guide. It summarises the product information. It does not replace the test report or the design for a specific project.

5. Design, installation and maintenance

Full instructions are in the two guides listed in section 6; the main requirements are summarised here.

- **Design:** a sound, flat substrate fit for tiling; a waterproofing membrane and floor falls in wet areas; a slip-resistant finish on wet floors and access routes; movement joints as set out in AS 3958.
- **Installation:** laid by a competent tiler to AS 3958, using a cement-based adhesive classified C2 or better under ISO 13007-1, with full coverage under each tile.
- **Maintenance:** clean with a pH-neutral cleaner; check grout and sealant joints at least once a year and repair any that have failed.

If cracked grout, failed sealant or loose tiles are left unrepaired, water can get behind the tiles and damage the substrate and framing. Dirt or cleaner film left on the surface reduces slip resistance.

6. Supporting documents

Four documents support this statement. All are available from Crown Tiles Limited and at www.crowntiles.co.nz.

Document	Version
Class 1 Building Product Information Sheet	1.0, 20 November 2026
Technical Data Sheet and Installation Guide	1.0, 20 November 2026
Tile Care and Maintenance Guide	1.0, 20 November 2026

Document	Version
Test report no. 25201802420	20 June 2018

7. Warranty

The tiles carry a 30-year product warranty from Crown Tiles Limited. The warranty covers the tiles themselves. It does not cover installation or the other materials in the tiled system. Contact Crown Tiles Limited for the warranty terms.

8. Supplier details

Crown Tiles Limited issues this statement and provides technical support in New Zealand.

Item	Details
Technical support	Crown Tiles Limited
Address	Unit C3, 27–29 William Pickering Drive, Rosedale, Auckland 0632
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Issued by	Frank Wang, Director
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