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## PRODUCT TECHNICAL STATEMENT - RESIDENTIAL

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### PRODUCT DESCRIPTION

Firth Concrete Structural Masonry is available in various 3 width ranges. The generic product dimension sizes being:

Length: 390mm, Height: 190mm, Width range: 240, 190, 140mm

Firth manufactures its concrete masonry products to NZS4210 in association with AS/NZS4455 with an independently audited quality management system confirming to AS/NZS ISO9001.

### SCOPE OF USE

Firth Concrete Structural Masonry is suitable for use as a structural wall and/or external wall cladding.

### COMPLIANCE WITH THE NEW ZEALAND BUILDING CODE

Structural Masonry products are combined with other products such as mortar, grout, reinforcement, and coatings to make up a system such as a masonry wall. To ensure compliance with the NZBC, design needs to comply with NZS4229 or NZS4230, and weather tightness to CCANZ CP:01 (E2/AS3 of the NZBC). Construction of the masonry system needs to confirm to NZS4210, and the most recent issue of the Firth Masonry Home Construction Manual. Coating to achieve weather tightness must comply with CCANZ CP:01. Firth documents are available for free download on the Firth Website. When designed within the scope of NZS4229, Firth Structural Masonry is classified as an acceptable solution in accordance with section B1 of the NZBC.

**Structure - B1:** Firth Structural Masonry designed in accordance with NZS4229 or NZS4230, detailed and installed as stipulated in this document, meets the requirements of section B1 of the NZBC.

**Durability - B2:** Firth Structural Masonry when designed in accordance with NZS4229 or NZS4230 meets the durability performance requirements of section B2 of the NZBC when maintained as stipulated in this document.

**External Moisture - E2:** Firth Structural Masonry installed as per section 3.2 of CCANZ CP:01 (E2/AS3) and the technical specifications referenced in this document complies with section E2 of the NZBC.

**Fire Performance - C:** Firth Structural Masonry is classified as non-combustible with fire ratings determined by NZS4230.

**Energy Efficiency - H1:** External Structural Masonry requires supplementary insulation to achieve the R-values prescribed in section H1 of the NZBC.

**Hazardous Building Materials - F2:** Firth Structural Masonry complies with the requirements of section F2.3.1 of the NZBC.

### APPEARANCE

The texture and colour of Firth Structural Masonry products will vary due to the natural materials used in manufacture. Minor chipping, cracking and efflorescence is not deemed a product defect when evaluated and deemed compliant with ASTM C21615.

### MAINTENANCE

Firth Concrete Structural Masonry products shall be maintained by annual inspection and cleaning as necessary. Repair of any cracks and maintenance of the weatherproof coating as stipulated by coating manufacturer.

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