

# CONCRETE MASONRY BRICKS

## PRODUCT TECHNICAL STATEMENT



MARCH 2021

### PRODUCT DESCRIPTION

Firth Concrete Masonry Bricks are available in 5 format sizes and a range of colours. The product names and general sizes being:

	Length	Height	Width
<b>Devonstone</b>	290mm	160mm	70mm
<b>Manorstone</b>	390mm	190mm	90mm
<b>Focus Brick</b>	230mm	90mm	75mm
<b>Summit Stone</b>	390mm	190 / 140 / 90mm	95mm
<b>Strata Brick</b>	290mm	75mm	70mm

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 Masonry Bricks are suitable for use as external wall cladding on residential buildings within the scope E2/AS1 and E2/AS3, or by specific engineering design.

### COMPLIANCE WITH THE NEW ZEALAND BUILDING CODE

Concrete Masonry Bricks are products which are combined with other products such as mortar, brick ties, bed reinforcement, and sometimes coatings to make up a system such as a masonry brick wall. To ensure compliance with the NZ Building Code, design and detailing (including but not limited to cavity design, ties, cavity drainage, and control joints) need to comply with sections E2/AS1, or E2/AS3 of the NZBC, or NZS4229 as appropriate. Bricks used in two storied construction shall be specifically designed or comply with Firth's "Two Storey Masonry Veneer Solutions". Construction of the masonry system needs to confirm to NZS4210, and the most recent issue of the Firth "Brick Veneer Technical Guide". The Firth documents are available for free download on the Firth website. Firth Masonry Bricks are classified as an acceptable solution in accordance with sections E2/AS1 (timber framing) and E2/AS3 (concrete support) and meet the requirements of the NZBC.

**Structure - B1:** Firth Masonry Bricks designed, detailed and installed as stipulated in this document, meet the requirements of section B1 of the NZBC.

**Durability - B2:** Firth Masonry Bricks are manufactured in accordance with NZS4210 and AS/NZS4455 and meet the durability performance requirements of section B2.3.1(b) of the NZBC for cladding when maintained as stipulated in this document.

**External Moisture - E2:** Firth Masonry Bricks installed as per section 9.2 of E2/AS1 of the NZBC or section 4.6 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 Masonry Bricks are classified as non-combustible and are suitable for use on external walls close to boundaries.

**Hazardous Building Materials - F2:** Firth Masonry Bricks comply with the requirements of section F2.3.1 of the NZBC. Safety data sheets are available on the Firth website.

### APPEARANCE

The texture and colour of Firth Concrete Masonry Brick products can vary due to the natural materials used in manufacture. Efflorescence (coloured deposits which can form on the face of masonry and other products) is not deemed a product defect as control is outside of the influence of the manufacture.

### MAINTENANCE

Firth Concrete Masonry Brick products shall be maintained by annual inspection with cleaning and repair of any cracks as necessary.

**Before installation, if you have any concerns or questions please make contact with your local Firth representative or call 0800 800 576.**