



# Building Product Information Sheet | Class 1

**Product Name:**

Grey Masonry (10 Series, 15 Series, 20 Series & 25 Series)

**Product Line:** Firth Structural Masonry

**Product Description & its intended use:**

Firth manufactures a range of structural masonry in a variety of colours and textures for use as wall or structural elements. Firth's structural masonry range consists of; 10 Series, 15 Series, 20 Series, and 25 Series. The Firth masonry blocks are combined with mortar, reinforcing, grout, control joints, coatings, etc to create a structural element.

Firth manufactures its concrete structural masonry products to AS/NZS4455 with testing to AS/NZS4456 with an independently audited quality management system confirming to AS/NZS ISO9001.

Building Product Warranty statements are available on the Firth website.

**Product Identifier:**

**Place of Manufacture:** Aotearoa New Zealand

**Legal & Trading name of Manufacturer(s):** FLETCHER CONCRETE AND INFRASTRUCTURE LIMITED

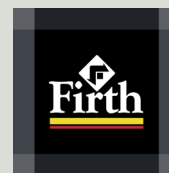
**Address for Service:** 810 Great South Road  
Penrose  
Auckland,1061

**Website:** <https://www.firth.co.nz>

**Email Address:** [info@firth.co.nz](mailto:info@firth.co.nz)

**Phone No.:** 0800 FIRTH 1 / 0800 347 841

**NZBN (If applicable):** N/A



## Relevant Building Code Clauses:

Firth manufactures its structural masonry products to AS/NZS4455 with testing to AS/NZS4456 with an independently audited quality management system confirming to AS/NZS ISO9001.

With appropriate design, construction, and maintenance (see below), Firth concrete structural masonry wall systems can demonstrate compliance with:

- B1-Structure: Performance clauses B1.3.1 to B1.3.4
- B2- Durability: Performance clauses B2.3.1(a) and B2.3.2.
- C6- Structural stability during fire: Performance clauses C6.2
- E2- External moisture: Performance clauses E2.3.2 and E2.3.3
- F2- Hazardous materials: Performance clauses F2.3.1

## Statement on how the building product is expected to contribute to compliance:

To ensure compliance with the NZBC, design to determine the performance requirements of the concrete structural masonry shall be conducted by suitably qualified persons familiar with a range of NZ Design Standards. In addition, construction shall be conducted by appropriately skilled persons in strict accordance with NZS4210 and good trade practice.

Concrete structural masonry products are combined with other products such as mortar, grout, and reinforcing and coatings, to make up a system such as a masonry wall. To ensure compliance with the NZBC, design needs to comply with the relevant design Standard typically NZS4229 or NZS4230.

Installation of the structural masonry and other components need to conform to NZS4210.

Structure - B1: Firth Structural Masonry achieve compressive strengths required by NZS4210 to achieve compliance with the requirements of design Standards NZS4229, NZS4230 and therefore section B1 of the NZBC.

Durability - B2: Firth Structural Masonry achieve a compressive strength required by NZS4210 to achieve compliance with the requirements of design Standards NZS4229, NZS4230 and therefore section B2 of the NZBC.

External Moisture - E2: Compliance is achieved by following the requirements of E2/AS3 (CCANZ CP:01).

Fire Performance - C: Firth concrete Structural Masonry are classified as non-combustible with fire rating determined by others (designer) using standards such as NZS4230.

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



### Limitations on the use of the building product:

The texture and colour of Firth structural masonry 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 C216-22 with viewing distance as per ASTM C90.

Structural masonry can be used for structures within the scope of NZS4230 or NZS4229 as applicable.

### Design requirements that would support the use of the building product:

Concrete structural masonry is a product which is combined with a range of other products such as mortar, grout, reinforcing, coatings, flashings, joints etc to produce the end-product.

To ensure compliance with the NZBC, design to determine the performance requirements of the concrete structural masonry shall be conducted by suitably qualified persons familiar with a range of NZ Design Standards and the preparation of specifications for construction.

### Installation requirements:

Installation shall be conducted by suitable qualified and experienced Licensed Building Practitioner. Installers shall have full and comprehensive knowledge of the requirements of NZS4210 and good trade practice.

### Maintenance Requirements:

Firth Structural masonry shall be maintained by annual inspection and cleaning as necessary as specified by the designer.

Is the building product/building product line subject to warning or ban under section 26?

Yes  No

If yes, description of warning or ban under section 26: N/A

Date: 08/11/23