



# PRODUCT CERTIFICATE

This is to certify that

## Firth Ribraft® Floor System



**BUREAU  
VERITAS**

### Product description

The Firth RibRaft® Floor System comprises of polystyrene pods, steel reinforcing rods, plastic spacers and Firth RibRaft® concrete. The system consists of the following components:

- RibRaft® Polystyrene Pod 1100mm x 1100mm x 220mm. 300mm thick pods are also available for deeper edge beams and internal ribs.
- Firth Pod and Reinforcement spacer (300mm and 100mm)
- Firth Reinforcement chair
- Mesh reinforcement
- Sand Blinding
- Reinforcement Grade 500E
- Firth RibRaft® Concrete 20MPa or 25 MPa
- DPM (250 micron polyethylene sheet)

### Product purpose or use

The Firth RibRaft® Floor System is a method of concrete floor construction, suitable for all slab-on-ground concrete floors for domestic or residential buildings that fall within the scope of NZS 3604:2011 Timber framed buildings.

### Certificate holder

Fletcher Concrete and Infrastructure Ltd.  
T/A Firth Industries  
810 Great South Road  
Penrose Auckland NZ 1061  
Ph: 0800 800 576  
W: www.firth.co.nz

### CodeMark Product Certification Body

Bureau Veritas Australia Pty Ltd  
3/435 Williamstown Road,  
Port Melbourne VIC, 3207  
Ph: 1800 855 190  
www.bureauveritas.com.au

Sam Guindi  
Product Certification Manager

For and on behalf of  
Bureau Veritas Australia Pty Ltd

### Complies with the New Zealand Building Code (NZBC):

If designed, used, installed and maintained in accordance with the scope of this certificate, the above mentioned product will meet or contribute to meeting the following provisions of the NZBC:

**Structure** B1.3.1, B1.3.2, B1.3.3 (a, b, f, g, h, q, m), B1.3.4

**Durability** B2.3.1(a), B2.3.2(a)

**External Moisture** E2.3.3

**Hazardous Building Materials** F2.3.1

**Energy Efficiency** H1.3.1

Subject to the following conditions and limitations:

1. The Firth RibRaft® Floor System shall only be used in buildings which fall within the scope of NZS 3604:2011 – Timber-framed buildings, located:
  - Where the Seismic Hazard Factor Z (defined in NZ 1170.5) is less than or equal to 0.45 (refer to Figure 6 of the Firth RibRaft® Technical Manual January 2020)
  - in any wind zones up to and including Extra High
  - in areas with snow loads up to 2.0 kPa
  - in all exposure zones (except microclimates)
  - and where the ground Ultimate Bearing Capacity exceeds the value specified in Table 2 for the types of construction in Table 1 of the Firth RibRaft® Technical Manual January 2020.
2. The Firth RibRaft® Floor System must be designed and installed in accordance with the Firth RibRaft® Technical Manual January 2020.

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Certificate Number



**MINISTRY OF BUSINESS,  
INNOVATION & EMPLOYMENT**  
HĪKINA WHAKATUTUKI

- This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004. The Ministry does not in any way warrant, guarantee, or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. The Ministry disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate.
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