


## Laboratory Accreditation Programmes

Schedule to  
**CERTIFICATE OF ACCREDITATION**

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<b>Authorised Representative</b>	Mr Ross Davison Laboratory Services Manager PO Box 2434 Hastings 4153 New Zealand	
<b>Client No.</b>	246	
<b>Programme</b>	Mechanical Testing Laboratory	
<b>Accreditation Number</b>	307	
<b>Initial Accreditation Date</b>	25 November 1986	
<b>Conformance Standard</b>	NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories	
<b>Testing Services Summary</b>	2.06	Cement and Concrete
	4.03	Cements & Pozzolanic Materials
	4.04	Concrete
<b>Signatories</b>	Mr Ezra Jones	2.06, 4.03, 4.04
	Miss Dana Leishman	2.06, 4.03, 4.04

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Holcim (New Zealand) Ltd  
 Mechanical Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation No 307

**2.06 Cement and Concrete**

NZS 3122                      Loss on ignition

**4.03 Cements & Pozzolanic Materials**

The following tests in accordance with AS Standards

- AS 2350.1                      Sampling
- AS 2350.3                      Normal consistency
- AS 2350.4                      Setting time
- AS 2350.5                      Determination of soundness
- AS 2350.8                      Fineness index by air permeability
- AS 2350.9                      Determination of residue on the 45 µm sieve
- AS 2350.11                      Compressive strength
- AS 2350.12                      Preparation of a standard mortar and moulding of specimens

The following tests in accordance with NZS Standards

NZS 3122-2009                      Appendix D False set

**4.04 Concrete**

The following tests in accordance with NZS 3112: Part 1:1986

- Section 3                      Sampling freshly mixed concrete
- Section 4                      Density (unit mass) of fresh concrete only
- Section 5                      Slump of concrete
- Section 8                      Bleeding of concrete
- Section 9                      Air content of fresh concrete by the application of pressure

The following tests in accordance with NZS 3112: Part 2:1986

- Section 3                      Moulding and curing concrete test cylinders
- Section 4                      Capping cylindrical concrete specimens
- Section 6                      Compressive strength of moulded concrete cylinders

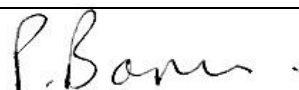
The following tests in accordance with NZS 3112.3 :1986

Section 5                      Density of hardened concrete

The following tests in accordance with NZS 3112.4:1986

- Section 3                      Grout flow time
- Section 5                      Moulding, curing and testing grout test cylinders

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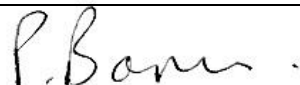
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The following test in accordance with AS/NZS 4058:2007

Appendix F                      Precast concrete pipes (pressure and non-pressure) - Absorption test for concrete pipes

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Authorised:  
General Manager

A handwritten signature in black ink, appearing to read 'P. Bam', is written over a white background.

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