



SCOPE OF ACCREDITATION

ACCREDITATION NO: 50

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FACILITIES: Not normally available for public testing service

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2.12 Concrete, grout and mortar

by the methods of
AS 1012.1, 2, 3.1, 4.2, 6, 8.1, 8.2, 8.3, 8.4, 9, 11, 12.1, 13, 18
ASTM C1611/C1611M-14, ASTM C140-99b

.01 Sampling

Fresh concrete, concrete masonry unit

.11 Mixing concrete in the laboratory

.12 Consistence

Slump test , slump flow

.13 Air content of freshly mixed concrete

Reduced air pressure

.15 Bleeding

.20 Making and curing test specimens

Making and curing test specimens; compression specimens (in the field) ,making and curing test specimens in the laboratory (flexure test, mortar and grout, drying shrinkage specimens); curing test specimens in the laboratory (compression specimens)

.23 Compression tests

Compression tests on moulded specimens, tests in the range 0 to 2000kN;
compression tests on hardened concrete cores, test in the range 0 to 2000kN

.26 Flexural strength tests

Modulus of rupture tests

.27 Mass per unit volume of hardened concrete

Measurement method

.28 Drying shrinkage

Drying and measurement of specimens

.33 Setting time

2.16 Aggregates

by the methods of
AS 1141.3.1, 4, 5, 6.1, 11.1, 12, 14, 15, 18, 20.1, 20.2, 20.3, 21, 22, 23, 24, 25.2, 25.3, 31, 32, 33, 34, Q216

- .02 Sampling of aggregates**
Sampling from a stockpile
- .11 Bulk density**
- .12 Particle density and water absorption**
- .13 Particle size distribution**
Sieve analysis; material finer than 75µm
- .16 Particle shape tests**
Proportional calliper; average least dimension and crushed faces
- .17 Flakiness index**
- .20 Aggregate strength tests**
Aggregate crushing value; wet/dry strength variation
- .21 Abrasion tests**
Los Angeles value
- .23 Soundness tests**
Exposure to sodium sulphate solution;
- .24 Contaminants**
Light particles; weak particles; clay and fine silt; organic impurities other than sugar
- .33 Degradation tests**
Degradation factor on coarse aggregate; degradation factor on fine aggregate
- .40 Adhesion of aggregates and binders**
Degree of pre-coating

2.18 Soils

by the methods of –

AS 1289.1.1, 1.2.1, 2.1.1, 3.1.1, 3.1.2, 3.2.1, 3.3.1, 3.4.1, 3.6.1, 5.1.1, 5.2.1, 6.1.1, 6.3.2, NO1, Q141B, Q143

- .01 Sampling**
Disturbed sampling from a stockpile and face
- .03 Sample preparation**
Sample preparation
- .11 Classification tests**
Moisture content (drying oven method) ; liquid limit (Casagrande four point; Casagrande one point) plastic limit; plasticity index; linear shrinkage; sieve analysis
- .32 Compaction tests**
Standard and modified compactions; treatment of oversize
- .35 Field density tests**
Field density (sand cone); compacted density of soils and crushed rocks (nuclear gauge)
- 42 Bearing strength tests**
Bearing ratio (remoulded specimens CBR's ___%)
- .47 Strength and penetration field tests**
Penetration (dynamic-cone)

2.19 Asphalts

By the methods of AS 2891.1, 2.1, 3.1, 5, 7.1, 8, 9.1, 9.2, 9.3, Q050, Q301, Q302A, Q302B, Q303A, Q303B, Q305, Q306A, Q306B, Q306C, NO4, Q307A, Q308A, Q308C, Q309, Q311, Q315, AAA MT001, AAA MT002

- .01 Sampling**
Compacted and uncompacted samples
- .02 Site Selection**
Site selection by random number, random stratified and systematic random stratified number
- .03 Sample preparation**
Sample preparation
- .10 Asphalt analysis**

Bitumen content and aggregate grading (reflux)

.20 Mechanical properties

Marshall stability and flow

.30 Volumetric properties

Maximum density (water displacement); voids and density relationships; bulk density (waxing, silicone sealed, presaturation); binder film thickness; mix volume voids, mix volume ratio

.40 Field tests

Density ratio

.50 Mix design

Asphalt tolerance mixes

.60 Adhesion and stripping

Sensitivity of asphalt to water

2.22 Masonry units and segmental pavers

by methods of –

AS/NZS 4456.2, AS/NZS 4456.3, AS 4456.4, AS 4456.5, AS/NZS 4456.10, AS/NZS 4456.14, AS/NZS 4456.19, AS/NZS 4058 Appendix F, AS/NZS 4058 Appendix C, AS/NZS 4058 CLAUSE 3.3

.20 Dimensional tests

Dimensions

.30 Strength tests

Compression strength tests in the range 0 to 2000kN; breaking load tests in the range 0 to 2000kN

.60 Permeability and absorption tests

Absorption

2.24 Road Pavement and Surfaces

by method of Q712

.20 Surface profile tests

Rut depth (straight edge)

2.90 Other tests

Low temperature impact test

By method of AS/NZS4766 Appendix D, Clause 7

Pipe material and related products

By methods of AS1199.1-Clause 9

Sampling

AS/NZS 1462.1, .4, 6

Dimensions, reversion of plastic pipes, resistance to internal pressure.

Defects

By methods of AS 1597.1 Clause 2.13. Appendix E Defects, AS 1597.1 Appendix G

Precast reinforced concrete box culverts, small culverts (not exceeding 1200 mm span and 1200 mm height),