

COMPRESSIVE STRENGTH OF DIMENSION STONE

Test Certificate

TEST METHOD	ASTM C170M-17
TEST DATE	16-Nov-17
CLIENT	Hanson Australia Pty Ltd
OUR REFERENCE	HAN1117-1
SAMPLE	Kanmantoo Bluestone
SURFACE FINISH	Sawn
SAMPLE ORIGIN	Kanmantoo SA
SAMPLING DATE	1/11/2017
SAMPLE LOCATION	Not Known
SHAPE and NOMINAL SIZE	CYLINDER: 50mm x 50mm
LOADING ORIENTATION	Perpendicular to Bedding
TEST EQUIPMENT	Hydraulic Compression force testing Machine (Asset ID: S1113)

Conditioning: Dried for minimum 48 hours @ 60 deg C

Test Number	Specimen Identification	Test Condition	Length (mm)	Diameter 1 (mm)	Diameter 2 (mm)	Max. Load (Newtons)	Compressive Strength(MPa)
C5850	S91/31	Dried	49.8	51.8	52.3	228320	107
C5851	S91/32	Dried	50.6	52.0	51.9	150050	71
C5852	S91/33	Dried	50.7	51.9	52.2	206250	97
C5853	S91/34	Dried	52.0	52.1	51.7	308930	146
C5854	S91/35	Dried	50.9	52.1	52.2	147380	69

MEAN DRIED COMPRESSIVE STRENGTH (MPa): **98 ± 0.9** (u_{95})

Standard Deviation: **31.6**

Conditioning: Soaked for 48 hours @ 22 deg C

Test Number	Specimen Identification	Test Condition	Length (mm)	Diameter 1 (mm)	Diameter 2 (mm)	Max. Load (Newtons)	Compressive Strength(MPa)
C5855	S91/36	Soaked	51.7	52.1	52.0	237600	112
C5856	S91/37	Soaked	53.5	52.7	52.4	199660	92
C5857	S91/38	Soaked	51.8	52.1	51.9	183480	86
C5858	S91/39	Soaked	51.1	52.2	52.1	167750	79
C5859	S91/40	Soaked	52.8	52.2	52.2	103130	48

MEAN SOAKED COMPRESSIVE STRENGTH (MPa): **83 ± 0.8** (u_{95})

Standard Deviation: **23.2**

NOTE: The expanded measurement uncertainty values (u_{95}) quoted in this report are at a confidence level of 95 % with a nominal coverage factor of 2. These values do not include any estimate of the effects associated with sampling.

COMMENTS/VARIATIONS

TESTED BY: Graham Baggs

APPROVED SIGNATORY:

NAME: Graham J Baggs

ISSUE DATE: 22-Nov-17




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