



City of Perth

Design and Construction Note

102.14

Street Layout and Pavement Design Guidelines

Standard City Grey Paving

Material Specification

Reviewed: 30/10/2018

Standard City Grey Paving

1) Performance Specification:

Compressive Strength	Minimum 35-40 Mpa	Tested by Std ASTM C99
Breaking Load	Minimum 3kN	Tested in accordance AS4456.5
Salt Resistance	21/26 cycles	Tested in accordance AS4456.10
Abrasion Resistance	Minimum of Ha 3	Tested by Std ASTM C1353
Moisture Absorption by Weight	Max 9% by weight	Tested by Std ASTM C97

2) Testing of Paving:

All proposed paving must have test results to confirm the above properties are fulfilled. Testing to be irrespective of orientation and be performed on exfoliated finished samples. The required methods and standards of testing are:

ASTM Standards:

C97/C97M	<i>Test methods for absorption and bulk specific gravity of dimension stone.</i>
C99/C99M	<i>Test method for modulus of rupture of dimension stone.</i>
C119	<i>Terminology relating to dimension stone.</i>
C170/C170M	<i>Test method for compressive strength of dimension stone.</i>
C241/C241M	<i>Test method for abrasion resistance of stone subjected to foot traffic.</i>
C880/C880M	<i>Test method for flexural strength of dimension stone.</i>
D7102	<i>Test method –intact rock core specimens.</i>

Australian Standards:

AS4456.5-2003	<i>Masonry units and segmental pavers and flags - Methods of test - Determining the breaking load of segmental pavers and flags</i>
AS4456.10-2003	<i>Masonry units and segmental pavers and flags - Methods of test - Determining resistance to salt attack</i>

3) Approval of Test Results

The appropriate specimens should be prepared from the supplied samples and the above test work completed prior to supply of paving.