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number 1273310



**TEST REPORT**

**LFD018C1353**

**ASTM C1353- ABRASION RESISTANCE OF DIMENSION STONE SUBJECTED TO FOOT TRAFFIC USING A ROTARY PLATFORM, DOUBLE-HEAD ABRASER**

<b>CLIENT</b>	<b>Namibia Marble and Granite (Pty) Ltd. P.O.Box 69 Karibib Namibia Tel +264 64 550201 (W)</b>
<b>PETROGRAPHIC NAME [ASTM C119]</b>	<b>Marble</b>
<b>TRADE NAME</b>	<b>White Rhino</b>
<b>SPECIMEN QUANTITIES</b>	<b>3</b>
<b>ABRADING WHEELS: H 22 TABER INDUSTRIES</b>	<b>N° JA30B1</b>
<b>SUMMARY OF TEST</b>	<b>ABRASION RESISTANCE Ha = 15,3</b>
<b>MINIMUM VALUE REQUIRED (ASTM C503 Standard Specification for Marble Dimension Stone)</b>	<b>Ha &gt; 10</b>

Carrara - January 23, 2019

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### Apparatus

Rotary Platform, Double-Head Abraser consisting of the elements described in sections 6.1.1-6.1.5 of ASTM standard C1353-09.

### Conditioning

Dry before testing the specimens have been conditioned for 48 h at  $60\pm 2^\circ$ . The temperature in the ventilated oven is controlled by a West 6500 temperature controller with PID logical and a PT100 temperature sensor.

Specimens after 1000 revolutions



**C1353**

**LFD018C1353 TEST RESULTS**

Number of specimens

3

Taber industries abrading wheels  
N° JA30B1

Date of test

January 23, 2019

Measurement operator

11

Temperature

26 °C

Relative Humidity

61 %

Test operator

11

	W <sub>0</sub>	W <sub>0</sub>	W <sub>1</sub>	W <sub>1</sub>	r	n	H <sub>A</sub>
	g	oz	g	oz			
LFD018C1353_-107	828,49	29,224	823,46	29,047	2,87	1000,00	20,98
LFD018C1353_-106	790,04	27,868	835,28	29,464	2,87	1000,00	-2,33
LFD018C1353_-105	848,62	29,934	844,74	29,797	2,87	1000,00	27,19
						<b>Average</b>	15,28
						<b>St.dev.</b>	15,56

Where:

W<sub>0</sub>= initial weight of test specimen

W<sub>1</sub>= weight of test specimen after 1000 revolutions

r= bulk specific gravity = 2,87 Test report LFD018C97

n= number of revolutions actually run during the test

H<sub>A</sub>= index of abrasion resistance

$$I_w = \frac{36,75}{W_0 - W_1} \times \rho \times \frac{n}{1000}$$

**ASTM C 1353 ABRASION RESISTANCE INDEX Ha = 15,3**

According to 'ASTM C503 Standard Specification for Marble Dimension Stone' the value required for abrasion index is Ha > 10

*The laboratory technician*  
*dott. Gabriele Pinelli*

**Marmo Test s.a.s.**  
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