

TEST REPORT

CARRARA 0/7 – CEMENT MARBLE

Samples:	tiles of an artificial dimension stone named “ <i>CARRARA 0/7 - concrete-bound agglomerated stone</i> ” with shape and size suitable for testing were delivered to our office by 08/04/2014.
Information: (supplied by the Client)	sampling report was delivered with the sample (see our reference document no. 867 of 28/04/2014).
Requested tests: EN 13748-1:2005 ¹	Terrazzo tiles - Part 1: Terrazzo tiles for internal use <ul style="list-style-type: none">• <i>clauses 4.2.2: Geometrical Requirements</i>• <i>clause 5.8: Water absorption</i>• <i>clause 5.5: Breaking strength and breaking load</i>• <i>clause 5.6: Abrasion resistance – THE WIDE WHEEL ABRASION TEST</i>• <i>clause 5.7: Slip/skid resistance – surface finish: honed 400</i>
Entrance n^o	3379 of 08/04/2014
Description:	artificial concrete-bound, ivory-white agglomerated stone consisting of sharp- to sub-rounded grains. Their grit size is sub-centimetrical and their colour is several hues of grey.

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U6/24 DOWN STREET – BOWEN HILLS – QLD – 4006

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TEST RESULTS

UNI EN 13748-1:2005 - Terrazzo tiles for internal use
 paragraph 5.2, 5.3, 5.4: Dimensional Requirements
 (Dimensional deviations, Straightness of edges, Flatness of the upper face)

Identification of specimens: 3379-5
 Date of testing: 29/05/2014
 Number of specimens: 5
 Shape and size of specimens: *prismatic*: (300x300x20) mm
 Surface finish: *honed 400*
 Specimens carried out in accordance with the standard
 Technical Operator : A. Prodomi

Specimen N°	thickness	Flatness of the upper face	Straightness of edges
1	19,82 mm	0,0 mm	0,0 mm
2	19,66 mm	0,0 mm	0,0 mm
3	19,89 mm	0,0 mm	0,0 mm
4	19,94 mm	0,0 mm	0,0 mm
5	19,20 mm	0,0 mm	0,0 mm
Tolerances according to Geometrical requirements (4.2.2)	< ± 3 mm For a thickness ≥ 40 mm	< 0,3 % For tiles 300x300mm: < 0,9 mm	< ± 0,3 % For tiles 300x300mm: < ± 0,9 mm
Test results	<i>Measured values fall within allowed dimensional deviations</i>	<i>Measured values fall within allowed dimensional deviations</i>	<i>Measured values fall within allowed dimensional deviations</i>

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**Terrazzo tiles - Part 1: Terrazzo tiles for internal use,
clause 5.8: Water absorption
according to EN 13748-1:2005**

Identification of specimens: 3379-1
 Date of testing: from 02/05/2014 to 09/05/2014
 Number of specimens: 6
 Shape and size of specimens: *prismatic* (105x105x20) mm
 Surface finish: *honed 400*
 Specimens carried out in accordance with the standard
 Technical Operator : A. Prodomi
 Apparatus: Balance MICRON HP – 500S

Specimen N°	Surface (suction area) of sample (cm ²)	Dried sealed sample mass (g)	Mass of sample after 24 h capillary water suction over the testing area (g)	Soaked sample mass weighted in water (g)	Capillary water absorption per unit area after 24 h (g/cm ²)	Water absorption capacity Mass (%)
1	110,481	501,28	527,44	528,18	0,24	5,37
2	110,481	511,61	538,73	539,18	0,25	5,39
3	110,365	513,25	540,51	540,94	0,25	5,40
4	110,271	511,62	538,77	539,22	0,25	5,39
5	110,313	515,33	542,75	543,14	0,25	5,40
6	110,376	499,86	525,70	526,59	0,23	5,35
Mean values					W_{24h} = 0,24 g/cm²	W_{m,a} = 5,38 %

Capillary water absorption per unit area after 24 h, mean value of the 6 tests, W_{24h} = 0,24 g/cm²

Water absorption capacity based on mass %, mean value of the 6 tests, W_{m,a} = 5,38 %

Note: requirements:

Clause 4.2.6.2 - Water absorption requirements

The water absorption is assumed acceptable when both the following requirements are met:

- when tested in accordance with the method described in 5.8, none of the individual results of the total water absorption shall be more than 8 % in mass;
- when tested in accordance with the method described in 5.8, none of the individual results of the water absorption through the tile face shall be greater than 0,4 g/cm².

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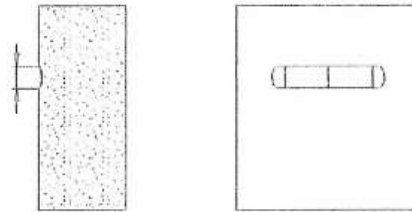
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**Terrazzo tiles - Part 1: Terrazzo tiles for internal use,
clause 5.6: Abrasion resistance – THE WIDE WHEEL ABRASION TEST
according to EN 13748-1:2005**

Identification of specimens: 3379-3
 Date of testing: 06/05/2014
 Number of specimens: 6
 Shape and size of specimens: *prismatic* (140x140x20) mm
 Surface finish: *honed 400*
 Specimens carried out in accordance with the standard
 Technical Operator: A. Prodomi
 Apparatus: Gabbriellini Abrasimeter CAP 2



Executed grooves: two for every specimen; of the two grooves, the larger value is taken as the result.

Recorded calibration factor = **19,50 mm**

Specimen N°	Maximum groove dimension (mm)	Groove calibrated dimension (mm)	Mean value (mm)
1	21,0	21,5	21,0 mm
2	20,5	21,0	
3	20,5	21,0	
4	20,0	20,5	
5	20,0	20,5	
6	20,0	20,5	

Calibrated abrasion value, mean value of the 6 tests = 21,0 mm

Note: requirements:

4.2.4.4 Abrasion

Abrasion shall be verified in accordance with the wide wheel test method described in 5.6.1 (modified Capon test) which is the reference test; alternatively, the Böhme test method described in 5.6.2 may be used. The abrasion requirement is assumed satisfied:

- if no individual test result exceeds 25 mm, when tested in accordance with the wide wheel test (see 5.6.1, modified Capon test);

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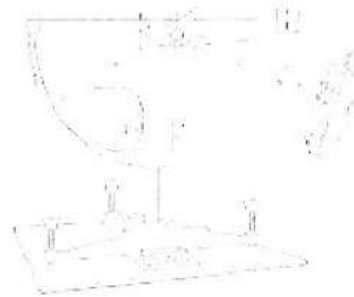
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**Terrazzo tiles - Part 1: Terrazzo tiles for internal use,
clause 5.7: Slip/skid resistance
according to EN 13748-1:2005**

Identification of specimens: 3379-4
 Date of testing: 10/04/2014
 Number of specimens: 5
 Shape and size of specimens: *prismatic* 300x300x20 mm
 Specimens were prepared in accordance with the standard
 Surface finish: *honed 400*
 Slider dimension: 76 mm
 Spider rubber features: according to the standard
 Technical operator: A. Prodomi
 Instrument: Pendulum Tester Wessex S885 SK 1255



Specimen N°	Mean of the two recorded values measured in opposite directions (SRV) <i>DRY CONDITIONS</i>	Mean of the two recorded values measured in opposite directions (SRV) <i>WET CONDITIONS</i>
1	46	13
2	45	33
3	49	24
4	49	19
5	49	12
Average	SRV_{dry} = 47	SRV_{wet} = 20

Total average value (SRV) DRY CONDITIONS (sliding element and specimen) for honed 400 surface = 47

Total average value (SRV) WET CONDITIONS (sliding element and specimen) for honed 400 surface = 20