

Burton Geoscience Ltd.

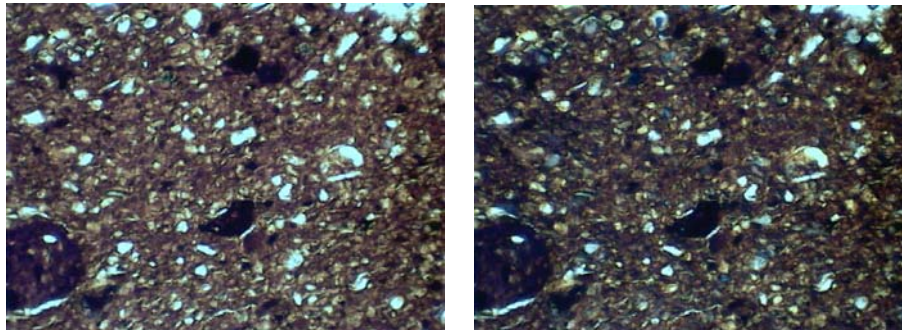
November 16 2007

RE: Testing and Interpretation Of Test Data For Mosaic Tiles Testing In Accordance With ASTM C648

As requested Burton Geoscience Ltd. (BGL) has coordinated and reviewed test data for five different mosaic tile types. These tile types are Terra Cotta, Onyx, Terre Du Marrakech, Frey Marble and Bali Black Beachstone. This report will discuss test results and their relation to the ASTM C648 specification.

Tile Description and Mineralogy

Terra Cotta: This rock sample was fine to medium grained, massive, rust colour and had a hardness of 4.0 (Mohs Scale). It is composed of very fine-grained clay minerals such as kaolinite and illite; very fine hematite and goethite are also present (giving the rock its rusty orange appearance). Medium grained quartz and feldspar were identified as well. This clay rich rock also contains small particles (<3mm) of fine-grained sedimentary rocks such as sandstone.



Terra cotta at 10X magnification. Same image with crossed polars for id purposes.

Onyx: This is a cryptocrystalline (microscopic grain size) form of quartz. The rock is extremely fine-grained, massive, pale yellow translucent colour and has a hardness of 7 (Mohs Scale). The rock is composed entirely out of quartz and is strong and unfractured.

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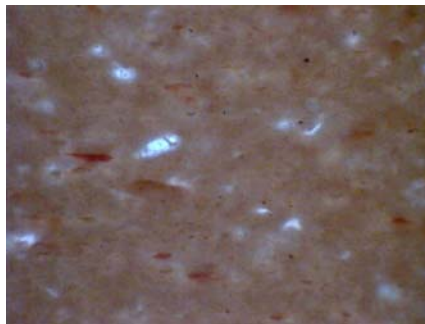
This is the onyx with crossed polars at 10X magnification.

Grey Marble: This rock is the result of metamorphism to a limestone material. Thin section shows relict microorganisms from the limestone; these are being altered to calcite. The rock is a medium to coarse-grained, nonfoliated, marine limestone partially metamorphosed to marble. It has a hardness of 5.5 (Mohs Scale).



This is the marble at 10x magnification Same image with crossed polars.

Terre Du Marrakech: This rock is composed of extremely fine-grained clay minerals; most likely kaolinite and illite possibly with goethite. Clay mineralogy can only be specifically identified with mass spectrometer analysis, which is beyond the parameters of this report. Also noted were very fine grains of quartz and calcite mixed in the clay matrix. This rock would be classified as marine sediment. It is massive, un-fractured and has a hardness of 4.0.



Very fine grained quartz and calcite in a mass of marine clay minerals.

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Bali Black Beachstone: Analysis of this rock led to a classification of basalt. The rock is fine-grained, massive and hard (6.0 Mohs Scale). It is composed chiefly of plagioclase feldspar, quartz, and hornblende, with significant magnetite. Lesser amounts of pyroxene, biotite and possible calcite were observed.



Note the needle grains of plagioclase;
dark minerals are hornblende and magnetite.

Breaking Strength

A breaking strength of 350lbs is considered sufficient strength. All five samples achieved an average of 350lbs or greater. See Appendix A for test results.

Breaking Strength- Tensile

A tensile breaking strength of 0.35 MPa is considered the minimum acceptable strength. All five samples achieved tensile strengths in excess of 0.35 MPa; strength ranged from 1.6 MPa to 5.8 MPa. See Appendix A for test results.

Pull Off Loads- Mesh Sheet Adhesion

Tiles appeared suitably adhered to the mesh giving load tests in excess of 7 lbs (see tests results in Appendix A). Quality Control measures that may be taken to ensure that the tiles remain fixed to the mesh during packing, shipping and delivery are as follows:

- Following proper procedures, as recommended by the manufacturer, when using the adhesive to bond the tiles to the mesh. Tiles and mesh should be clean and free of debris that could cause a poor bond.
- Careful packing of product; rough handling or tossing the tile sheets should be avoided.
- Filled shipping packages or containers should not leave room for movement.
- A suitable quality transportation method should be employed to ship and deliver the product.

Observations for Protrusion and Non-uniformity

Observations of the tile material have shown that no two tiles are the same.

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Several measurements of 12in by 12in mesh sheets for each tile material were taken to determine if any one tile protrudes more than 3mm above another. It should be noted that these observations are based on sample materials as supplied by the client. It is assumed that these materials are representative of the delivered product. There were no measurements in excess of 3mm.

Tile Type	Terra Cota	Onyx	Terre Du Marakesh	Frey Marble	Bali Black Beachstone
Protrusion Measurements (mm)	1	1	<1	<1	1
	1	<1	<1	1	1
	<1	<1	<1	1	1
	<1	<1	<1	<1	1
	1	<1	1	<1	<1
	2	1	<1	<1	1
	<1	1	1	<1	<1
	<1	<1	<1	1	<1
	<1	1	<1	<1	<1
	1	<1	<1	<1	1

Table 1. Measurements for protrusion using a straight edge over ten areas on the test sheet.

Conclusions

The test data indicates that the mosaic tile and the procedure for delivering tiles attached to mesh are in compliance with ASTM C648.

I trust this report meets your needs.

Yours truly,




John Burton, P.Geo.
Senior Geoscientist

Burton Geoscience Ltd.

References

ASTM C648
EcoLogo^M for Mosaic Tile, CCD 167 *Mosaic Tiles*- Draft Jan 27, 2007

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Appendix A

Test Data on Mosaic Tiles
CG48 Compliant Testing

Burton Geoscience Ltd.



BURTON GEOSCIENCE LTD
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TECHNICAL REPORT
 FILE: 10792
 DATE: OCT 17, 2007

Attention: JOHN BURTON

Project: MOSAIC ROCK SAMPLES

Subject: BREAKING STRENGTH - ASTM C648

SAMPLE									
TERRA COTTA		TERRE DE MARRAKECH		GREY MARBLE FLAT CUT		BALI BLACK BEACHSTONE		TRANSPARENT ONYX FLAT CUT	
H - mm	LOAD - lbf	H - mm	LOAD - lbf	H - mm	LOAD - lbf	H - mm	LOAD - lbf	H - mm	LOAD - lbf
10	324	13.2	607	9.6	548	9.1	1205	9.9	466
11.5	493	13.7	688	9.4	729	7.6	913	9.1	472
9	243	13.6	615	9.5	764	8.2	752	9.5	511
10.7	420	12.1	768	10.1	869	9.5	1150	11.1	572
8.4	325	13.1	787	8.9	595	8.0	863	9.2	499
9.8	374	13.8	948	8.8	745	10.4	1262	11.0	514
8.5	254	13.5	612	8.3	562	8.3	884	10.5	595
10.6	537	12.4	647	9.4	735	8.9	634	10.1	374
10.6	407	12.7	689	9.5	750	8.9	1083	9.6	541
10.2	337	13.3	798	10.4	709	7.6	648	10.1	528
<i>Average</i>									
9.9	371	13.1	716	9.4	701	8.7	939	10.0	507

Comments: Samples tested in accordance with ASTM C648 - 14mm triangle bearing support.
 Load recorded using certified digital readout and S-Type load cell.

Reporting of these test results constitutes a testing service only.

Engineering interpretation or evaluation of the test results is provided only on written request.

Per: _____
 Glen Pederson, ASCT

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TECHNICAL REPORT
FILE: 10792
DATE: OCT 31, 2007

Attention: JOHN BURTON

Project: MOSAIC ROCK SAMPLES

Subject: BREAKING STRENGTH - ASTM C648

SAMPLE	LOAD	AREA	TENSILE STRENGTH	
	lbf		in ²	PSI
TERRA COTTA	936	1.69	554	3.8
	675	1.69	399	2.8
	759	1.69	449	3.1
ONYX	965	1.69	571	3.9
	1260	1.69	746	5.1
	1340	1.69	793	5.5
TERRE DU	554	1.69	328	2.3
MARRAKESH	395	1.69	234	1.6
	432	1.69	256	1.8
GREY MARBLE	968	1.69	573	3.9
	1339	1.69	792	5.5
	1135	1.69	672	4.6
BALI BLACK	588	0.82	717	4.9
BEACHSTONE	637	0.82	777	5.4
	685	0.82	835	5.8

Per: _____

Glen Pederson, AScT

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TECHNICAL REPORT
FILE: 10792
DATE: Nov. 09, 2007

Attention: JOHN BURTON

Project: MOSAIC ROCK SAMPLES

Subject: PULL-OFF LOADS - MESH SHEET ADHESION

SAMPLE	TENSILE PULL-OFF LOAD (LBS)	
TERRA COTTA	9	7
TERRE DU MARRAKECH	29	35
GREY MARBLE FLAT CUT	37	39
BALLI BALCK BEACHSTONE	58	26
TRANSPARENT ONYX FLAT CUT	71	22

Comments: Results reflect a range of adhesive area per individual specimen.

Per: _____
Glen Pederson, ASCT

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