

TEST REPORT

No. : XMIN190902311CCM

Date : Dec.03, 2019

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CUSTOMER NAME: NEW OZ BMG AUSTRALIA
ADDRESS: 262 PARRAMATTA ROAD GRANVILLE 2142 NSW AUSTRALIAN

Sample Name : STONE FLOOR
Material : Stone powder, Plastic
Spec. : 8mm

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Selected test(s) as requested by applicant
SGS Ref. No. : GZIN1909051930MR, XMIN1909006938SC, CANMLC1919083501,
CANMLC1919082401
Date of Receipt : Sep.23, 2019
Testing Start Date : Sep.23, 2019
Testing End Date : Oct.10, 2019
Test Result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

***** To be continued*****

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Xiamen Branch
Testing Center


Civi Huang Authorized Signatory



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Sample Information:

Flooring, See the photograph(s).

Test result(s):

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Dimensional stability (see note 2)	ASTM F2199-18	Specimen: 610mm×177mm×8.0mm, 3pcs	Average: X Direction: -0.00% Y Direction: -0.01%
2	Curling (see note 3)		Condition: 23±2°C, 50±5%RH, 24h →82±2°C, 360min→ 23±2°C, 50±5%RH, 24h	Average: Curling value: 0.08mm Curling max: 0.24mm
3	Castor chair test	NALFA LF01-2011 section 3.9	Load: 90kg Type of castors: Type W Cycles: 35000	No visible damage
4	Three-cycle soak test	ANSI/HPVA HP-1- 2009 Section 4.6	Specimen: 127mm×50mm×8.0mm, 6pcs Cycle: 24±3°C, 4h→52°C, 19h Total cycles: 3	No delamination PASS (See annex A)
5	Low temperature dimensional stability (see note 2)	Refer to ASTM F2199-18 and clients' requirement	Condition: 23±2°C, 50±5%RH, 24h →-35°C, 6h→23±2°C, 50±5%RH, 24h (See annex B)	Average: X Direction: -0.01% Y Direction: -0.03%
6	Low temperature curling (see note 3)			Average: Curling value: 0.05mm Curling max: 0.10mm
7	Burning behavior	AS ISO 9239.1: 2003	See annex C	See annex C
8	Water Absorption	ASTM D570-98 (2018)	See annex D	0.05% (See annex D)
9	Soluble heavy metal	ASTM F963-2017	See annex E	Not detected PASS (See annex E)
10	Asbestos content	NIOSH 9002:1994	See annex E	Negative (See annex E)
11	VOCs and Carbonyl Compounds	French Decree 2011-321	See annex F	Class A+ (See annex F)

Note: 1. All test specimens were cut from the samples, see the photograph(s).

2. Dimensional stability, % = (The average final length-The average initial length)/The average initial length ×100.

3. Curling, mm = Dimension after exposure to heat - Dimension before exposure to heat.

4. The test items of 6~11 were carried by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

***** To be continued*****



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Annex A

Test item: Three-cycle soak test

Test Method: ANSI/HPVA HP-1-2009 Section 4.6

Test condition:

Step1 : submerg in water at temperature 24°C

Duration: 4h

Step 2: dry in oven at temperature 52°C

Duration: 19h

Total cycles: 3

Test Result:

Specimens No.	Delamination	Measure the delamination(mm)			Requirements in ANSI/HPVA HP-1-2009 Section 4.6	Conclusion
		Length	Width	Depth		
1	No	/	/	/	Five of the 6 specimens shall pass the first cycle and 4 of the 6 specimens shall pass the third cycle in 90% of the panels tested.	PASS
2	No	/	/	/		
3	No	/	/	/		
4	No	/	/	/		
5	No	/	/	/		
6	No	/	/	/		

Note: / means no delamination.

***** To be continued*****



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Annex B

Test Item: Low temperature dimensional stability and curling

Sample Description: See photo

Test Method: Reference to ASTM F2199-18 and clients' requirement

Test Condition:

23±2°C, 50±5%RH, 24h → -35°C, 6h → 23±2°C, 50±5%RH, 24h

Test Result:

Sample	Test results			
	Length	Width	Curling _{value}	Curling _{max}
A-1	-0.005%	-0.020%	0.05	0.10
A-2	-0.005%	-0.003%		
A-3	-0.008%	-0.079%		
Average	-0.01%	-0.03%		

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Annex C

Test item: Determination of the Burning Behavior Using a Radiant Heat Source

Test Method: AS ISO 9239.1:2003

Test condition:

Specimen: 1050 × 230 × 8.0 mm

Flame application time: 10min

Mounting and fixing: Calcium silicate board, with its density about 1016kg/m³, thickness about 21.4mm, is as the substrate. The specimens were fixed mechanically to the substrate.

Test result:

Specimen No.	1	2	3	Average
The flame-spread distance at 10min, mm	50	40	40	43
The flame-spread distance at 20min, mm	50	40	40	43
The flame-spread distance at 30min, mm	50	40	40	43
Heat flux at 10 min (HF-10), kW/m ²	≥11	≥11	≥11	/
Heat flux at 20 min (HF-20), kW/m ²	≥11	≥11	≥11	/
Heat flux at 30 min (HF-30), kW/m ²	≥11	≥11	≥11	/
Critical heat flux (CHF), kW/m ²	≥11	≥11	≥11	/
Integrated smoke value, %·min	292.40	322.36	393.82	336.2

Note:

- Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux ≥ 11kW/m².
- Observations of the burning characteristics: melting, blistering, charring.

***** To be continued*****



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Annex D

Test Item: Water Absorption

Sample Description: Floor

Test Method: ASTM D570-98(2018)

Test Condition:

Specimen: 75.8mm×25.4mm×7.8mm

Drying condition: 50±3°C, 24h

Immersion condition: 23±1°C, 24h

Lab Environmental Condition: (23±2)°C, (50±5)%RH

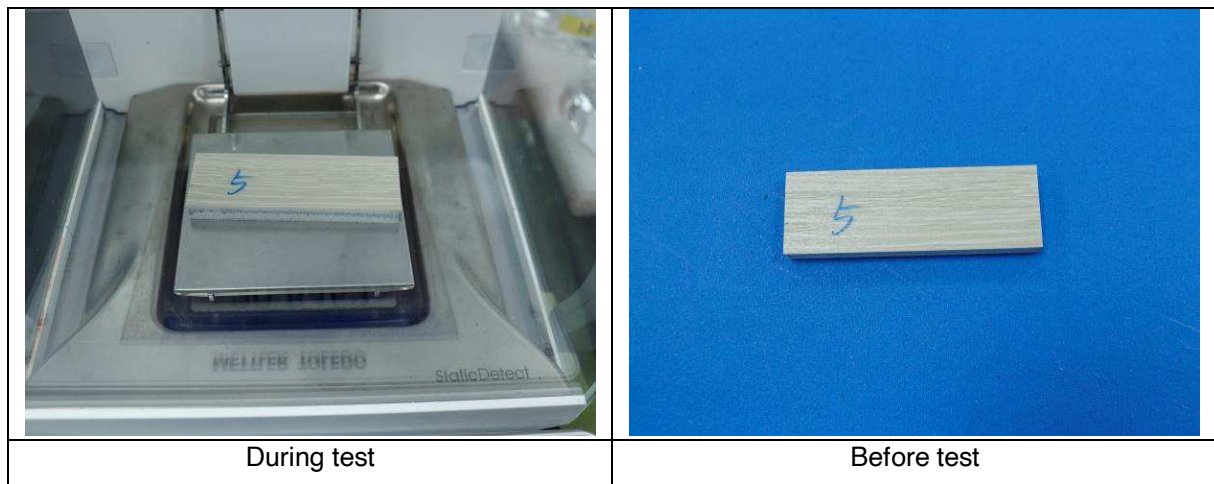
Test Result:

Test Item	Test Result
Water Absorption	0.05%

Note:

1. Water absorption, % = (Mass after immersion-Mass after drying and before immersion)/Mass after drying and before immersion×100
2. Test specimens were cut from the sample.

Test Photo:



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Annex E

American Society for Testing and Materials -ASTM F 963-17(Clause 4.3.5) - total Lead in Substrate

Materials

Test Method: With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Total Lead (Pb)	100	mg/kg	20	ND
Comment				PASS

American Society for Testing and Materials-ASTM F 963-17(Clause 4.3.5)-soluble heavy metal in Substrate Materials/paint and similar surface-coating materials

Test Method: With reference to ASTM F 963-17(Clause 8.3), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Soluble Lead (Pb)	90	mg/kg	5	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND
Soluble Selenium (Se)	500	mg/kg	10	ND
Comment				PASS

Notes: Results shown are of the adjusted analytical results

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Asbestos

Test Method: With reference to NIOSH 9002:1994, Analysis was performed by PLM.

Test Item(s)	CAS NO.	Unit	MDL	001
Chrysotile	12001-29-5/132207-32-0	% (m/m)	0.1	Negative
Amosite	12172-73-5	% (m/m)	0.1	Negative
Crocidolite	12001-28-4	% (m/m)	0.1	Negative
Anthophyllite	77536-67-5	% (m/m)	0.1	Negative
Tremolite	77536-68-6	% (m/m)	0.1	Negative
Actinolite	77536-66-4	% (m/m)	0.1	Negative

Notes:

- (1) Negative means the absence of asbestos, Positive means the presence of asbestos.
- (2) XRD will be used to confirm when the result is positive by PLM method.
- (3) 1 mg/kg = 0.0001%
- (4) MDL = Method Detection Limit
- (5) ND = Not Detected (< MDL)
- (6) "-" = Not Regulated

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Annex F

Test Method:

With reference to ISO 16000-9:2006 / COR1-2007 & ISO 16000-6:2011 & ISO16000-3:2011.

Testing was performed by Environmental Chamber (50L), followed by sampling using Tenax-TA and DNPH tube, analysis using Thermodesorption System with Gas Chromatography Mass Spectrometry (TDS-GC/MS) and High Performance Liquid Chromatography-DAD (HPLC-DAD).

Conclusion:

Based on the submitted sample(s) , test was performed according to Decree 2011-321 relative to the labeling of construction products, floor or wall coverings and paints and lacquers concerning their emission of volatile pollutants, sample is **A+** class.

VOCs and Carbonyl Compounds:

	Compound Name	CAS No.	Result [mg/m ³]
			28 day
analysis result	Formaldehyde	50-00-0	ND
	Acetaldehyde	75-07-0	ND
	Toluene	108-88-3	ND
	Tetrachloroethylene	127-18-4	ND
	Xylene	108-38-3&106-42-3&95-47-6	ND
	1,2,4-Trimethylbenzene	95-63-6	ND
	1,4-Dichlorobenzene	106-46-7	ND
	Ethylbenzene	100-41-4	ND
	2-Butoxyethanol	111-76-2	ND
	Styrene	100-42-5	ND
	TVOC	-	0.017

Remark: 1. ND =not detectable (<MDL)
2. MDL = 0.002mg/m³
3. mg/m³= milligrams per cubic metre

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Evaluation according to Decree 2011-321 relative to the labeling of construction products, floor or wall coverings and paints and lacquers concerning their emission of volatile pollutants

Classes	Calculated Result (µg/m³)	C	B	A	A+
Formaldehyde	ND	> 120	< 120	< 60	< 10
Acetaldehyde	ND	> 400	< 400	< 300	< 200
Toluene	ND	> 600	< 600	< 450	< 300
Tetrachloroethylene	ND	> 500	< 500	< 350	< 250
Xylene	ND	> 400	< 400	< 300	< 200
1,2,4-Trimethylbenzene	ND	> 2000	< 2000	< 1500	< 1000
1,4-Dichlorobenzene	ND	> 120	< 120	< 90	< 60
Ethylbenzene	ND	> 1500	< 1500	< 1000	< 750
2-Butoxyethanol	ND	> 2000	< 2000	< 1500	< 1000
Styrene	ND	> 500	< 500	< 350	< 250
TVOC	16.9	> 2000	< 2000	< 1500	< 1000

Remark: Calculated Result = SER / q

The concentrations of exposition are calculated in a conventional reference room of a total volume (V) of 30m³, in which is applied a rate of air renewal (n) of 0.5h⁻¹ and which dimensions are specified here below:

	Surface (S) (m²)	Load rate (L=S/V) (m²/m³)	Surface specific emission output (q=n/L) (m³.m ⁻² .h ⁻¹)
Floor	12	0.4	1.25
Ceiling	12	0.4	1.25
One door	1.6	0.05	10
One window	2	0.07	7
Walls (minus door and window)	31.4	1	0.5
Joints (or very small surfaces)	0.2	0.007	70

***** To be continued*****



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TEST REPORT

No. : XMIN190902311CCM

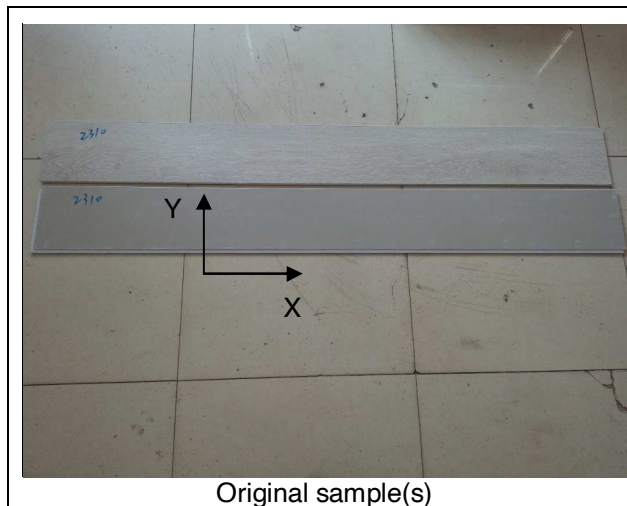
Date : Dec.03, 2019

Page: 11 of 11

Test condition

Chamber Volume (m ³)	0.05	Testing Temperature (°C)	23
Testing Humidity (rH%)	50	Air Exchange Rate (1/h)	0.5
Sample Loading (m ² /m ³)	0.4		
Tenax Sampling Flow (mL/min)	200	DNPH Sampling Flow (mL/min)	300
Tenax Sampling Time (min)	25	DNPH Sampling Time (min)	60
Tenax Sampling Volume (L)	5	DNPH Sampling Volume (L)	18

Specimen photograph(s):



Original sample(s)

SGS authenticate the photo(s) on original report only

The test results are copied from report No.: XMIN190902310CCM dated:Nov.18,2019 issued by SGS

*****End of report*****



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TEST REPORT

No. : XMIN191202902CCM

Date : Dec.04, 2019

Page : 1 of 2

CUSTOMER NAME: NEW OZ BMG AUSTRALIA
ADDRESS: 262 PARRAMATTA ROAD GRANVILLE 2142 NSW AUSTRALIAN

Sample Name : STONE FLOOR
Spec. : 8mm

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Selected test(s) as requested by applicant
Date of Receipt : Nov.22, 2019
Testing Start Date : Nov.22, 2019
Testing End Date : Nov.25, 2019
Test Result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

***** To be continued*****

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Xiamen Branch
Testing Center

Civi Huang Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center Commercial Construction Material Laboratory

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TEST REPORT

No. : XMIN191202902CCM

Date : Dec.04, 2019

Page : 2 of 2

Component analysis

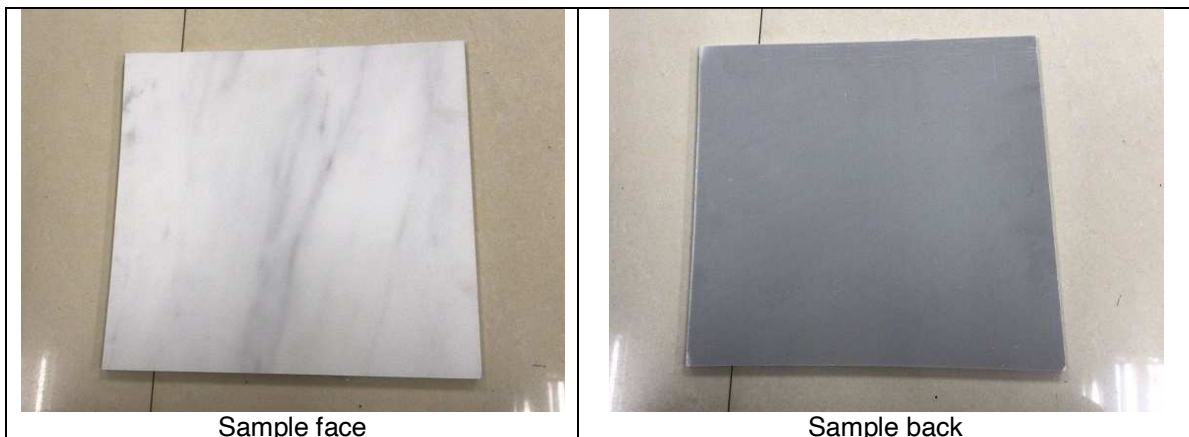
Sample description: Panel (see photo)

Test Result(s):

No.	Parameter	Test method	Test results (%)
1	Silicon dioxide (SiO ₂)	BS EN ISO 12677:2011	0.67
2	Calcium oxide (CaO)		38.47
3	Chlorine (Cl)		17.92
4	Magnesium oxide (MgO)		5.80
5	Aluminium oxide (Al ₂ O ₃)		0.25
6	Sodium oxide (Na ₂ O)		0.10
7	Iron sesquioxide (Fe ₂ O ₃)		0.08
8	Zinc oxide (ZnO)		0.08
8	Titanium dioxide (TiO ₂)		0.04
10	Potassium oxide (K ₂ O)		0.03
11	Sulfur trioxide (SO ₃)		0.03
12	Loss on ignition (L.O.I)		36.53

Remark: The above test was carried out by HUAXIA CERAMIC TESTING CENTER.

Sample Photo(s):



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The test results are copied from report No.: XMIN191102781CCM dated: Dec.04,2019 issued by SGS

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Xiamen Branch Testing Center Commercial Construction Material Laboratory

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