

**Applicant:** Meganite Inc.

**Address:** 1461 S Balboa Ave, Ontario, CA 91761, United States

**Manufacturer:** BEST SOLID SURFACES CORP.

**Address:** No.12, Chunyu Road, XiShan District, Wuxi City, Jiangsu, China

**Testing Sample:** Acrylic Solid Surface, Trade: Meganite, Type: Meganite Solid surface, End use: Countertop & Wall Cladding, Thickness: 12mm

**Standard:** AS 5637.1-2015 & AS ISO 9705-2003(R2016)

**Testing Lab:** SGS

**Date of Issue:** 2021-09-30

**Test Data:**

Test Items	Certificate ID Code	Customer ID Code	Test results & Classification
AS ISO 9705-2003(R2016)	AJFS2108006980OS	2910	Total Heat Release: 358.8MJ Total Smoke Production: 257.9m <sup>2</sup> SMOGR <sub>RC</sub> : 0.4 m <sup>2</sup> /s <sup>2</sup> x1000
AS 5637.1-2015 Classification	AJFS2108006980OS-01	2911	Group 1

**Conclusion:** the above test results indicate to meets with the classification of AS 5637.1-2015 Group 1.

**Certificate search:**

**Option 1: Website**

1. Click [www.fire-test.cn](http://www.fire-test.cn) (English)
2. Select "Search for Certification"
3. Fill the Certificate ID Code (AJFS2108006980OS) and applicant name (Meganite Inc.)
4. Click "Submit"

### **Option 2: WeChat Official / Public Account**

1. Select WeChat, search for WeChat Official / Public Accounts of “firetest” or “睿督防火测试”
2. Select “Technical Support” – “Search for Certification”
  - a. Fill the Certificate ID Code (AJFS2108006980OS) and Customer ID Code (2910)
  - b. Fill the Certificate ID Code (AJFS2108006980OS) and applicant name (Meganite Inc.)
3. Submit with confirmation, you may get the search information.

### **Value-added services:**

You can search for “firetest” or scan the QR code below to follow or our WeChat Official/Public Accounts to learn more about the relevant standards and regulations for fire retardant testing of rail transit vehicles or building materials, moreover, and you can also ask for supporting, search for a result or reports and certificate enquiries, standards sharing and downloads on the WeChat Official/Public Accounts. Join us!



## AS 5637.1 & AS ISO 9705 Fire test

### AS 5637.1-2015 standard

AS 5637.1-2015 Determination of fire hazard properties.

AS ISO 9705-2003 Fire tests—Full-scale room test for surface products

### AS ISO 9705 test scope

Intend to evaluate the contribution to fire growth provided by a surface product using a specified ignition source.

Especially suitable for products that for some reason cannot be tested in a small laboratory scale, for example thermoplastic materials, the effect of an insulating substrate, joints, surfaces with great irregularity.

During the test, record the following observations, including the time when they occur:

- a. ignition of the ceiling;
- b. flame spread of wall and ceiling surface;
- c. change of the heat output from the burner;
- d. flame emerging through the doorway;

The below test results would be considered and record on the report:

1. Time/heat flux incident on the meter at the center of the floor,
2. Time/volume flow in the exhaust duct,
3. Time/rate of heat release; and if the burner is included, time/heat release from the burner,
4. Time/production of carbon monoxide at reference temperature and pressure,
5. Time/production of carbon dioxide at reference temperature and pressure,
6. Time/production of light-obscuring smoke at actual duct flow temperature,
7. Description of the fire development (photo-graphs)
8. Calibration results according to requirements.

### AS 5637.1-2015 evaluation

A measure of smoke obscuration determined in accordance with ISO 5660-1 or AS/NZS 3837, as appropriate to the test undertaken and expressed in square meters per kilogram (m<sup>2</sup>/kg)

AS 5637.1-2015 standard sets out procedures for the assessment of internal wall and ceiling linings according to

- a. their tendency to ignite;
- b. their tendency to release heat once ignition has occurred;
- c. their tendency to cause flashover;
- d. their tendency to release smoke; and
- e. their contribution to fire growth, and allows for determination of group number, smoke growth rate index (SMOGR<sub>RC</sub>) and, where required, average specific extinction area (ASEA).

**AS 5637.1-2015 Group Number**

AS 5637.1 Group 1 - material that does not reach flashover when exposed to 100KW for 600s followed by exposure to 300KW for 600s.

AS 5637.1 Group 2 - material that flashover following exposure to 300KW within 600s after not reaching flashover when exposed to 100KW for 600s.

AS 5637.1 Group 3 - material that reaches flashover in more than 120s but within 600s when exposed to 100KW.

AS 5637.1 Group 4 - material that reaches flashover within 120s when exposed to 100KW.

Building Code of Australia (BCA)	Group 1	AS/NZS 3837 or AS ISO 9705 or ISO 5660-1
	Group 2	AS/NZS 3837 or AS ISO 9705 or ISO 5660-1
	Group 3	AS/NZS 3837 or AS ISO 9705 or ISO 5660-1
	Group 4	AS/NZS 3837 or AS ISO 9705 or ISO 5660-1

## Test Report

No. AJFS2108006980OS-01

Date: SEP.30, 2021

Page 1 of 3

### MEGANITE INC

1461 S BALBOA AVE, ONTARIO, CA 91761, UNITED STATES

**Sample Description:** ACRYLIC SOLID SURFACE

**Thickness:** 12mm

**Style/Item No.:** MEGANITE SOLID SURFACE

**Manufacturer:** BEST SOLID SURFACES CORP.

NO.12, CHUNYU ROAD, XISHAN DISTRICT, WUXI CITY, JIANGSU, CHINA

**Client Reference Information:** TRADE: MEGANITE

**End Use Application:** COUNTERTOP & WALL CLADDING

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

\*\*\*\*\*

### **Test Requested:**

AS 5637.1:2015 Determination of fire hazard properties.

And the test method is according to AS ISO 9705-2003(R2016) Fire tests- Full-scale room test for surface products.

**Test Results:** -- See attached sheet --

### **Test Period:**

Sample Receiving Date : AUG.16, 2021

Test Performing Date : AUG.16, 2021 TO AUG.27, 2021

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch



Allen Zou

Approved Signatory



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**I. Sample details**

Sample description	Acrylic Solid Surface
Thickness (mm)	12mm
Substrate material	/

**II. Preparation and mounting of test specimens**

Installation guidance for test materials

**1. Left side wall part (3.6m)**

Four 3.6m length(three 0.76m wide,one 0.12m wide)samples are installed horizontal arrangement , and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 3 screws.

**2. Right side wall part (3.6m)**

Three 3.6m length(two 0.76m wide,one 0.12m wide)samples are installed horizontal arrangement , and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 3 screws;

The top sample is cut and spliced by two 2.4m samples(one 2.4m length,the other1.2m length),each sample is fixed with 4 screws.

**3. Wall part (2.4m)**

Four 2.4m length (three 0.76m wide,one 0.12m wide) samples are installed horizontal arrangement ,and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 2 screws.

**4.Ceiling part**

Four 3.6m length (three 0.76m wide,one 0.12m wide)samples are installed side by side, and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 3 screws.

To be continued....



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### III. Test conducted

The fire test was conducted in accordance with AS ISO 9705-2003(R2016) Fire tests – Full-scale room test for surface products, and the report **AJFS2108006980OS**.

### IV. Conclusion

According to Assigning group numbers requirements, the sample assigned as **Group 1**.

$SMOGR_{RC} = 0.4m^2/s^2 \times 1000$

#### **Assigning group numbers** (According to AS 5637.1:2015 clause 4.2)

- (a) Group 1—material that does not reach flashover when exposed to 100 kW for 600 s followed by exposure to 300 kW for 600 s.
- (b) Group 2—material that reaches flashover following exposure to 300 kW within 600 s after not reaching flashover when exposed to 100 kW for 600 s.
- (c) Group 3—material that reaches flashover in more than 120 s but within 600 s when exposed to 100 kW.
- (d) Group 4—material that reaches flashover within 120 s when exposed to 100 kW.

\*\*\*End of Report\*\*\*



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## Test Report

No. AJFS2108006980OS

Date: SEP.30, 2021

Page 1 of 7

### MEGANITE INC

1461 S BALBOA AVE, ONTARIO, CA 91761, UNITED STATES

**Sample Description:** ACRYLIC SOLID SURFACE

**Thickness:** 12mm

**Style/Item No.:** MEGANITE SOLID SURFACE

**Manufacturer:** BEST SOLID SURFACES CORP.

NO.12, CHUNYU ROAD, XISHAN DISTRICT, WUXI CITY, JIANGSU, CHINA

**Client Reference Information:** TRADE: MEGANITE

**End Use Application:** COUNTERTOP & WALL CLADDING

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

\*\*\*\*\*

### **Test Requested:**

AS ISO 9705-2003(R2016) Fire tests – Full-scale room test for surface products.

**Test Results:** -- See attached sheet --

### **Test Period:**

Sample Receiving Date : AUG.16, 2021

Test Performing Date : AUG.16, 2021 TO AUG.27, 2021

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch



Allen Zou  
Approved Signatory

scan to see the report



AJFS2108006980OS



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**I. Test conducted**

Test in accordance with AS ISO 9705-2003(R2016) Fire tests- Full-scale room test for surface products.

**II. Sample details**

Sample description	Acrylic Solid Surface
Thickness (mm)	12mm
Substrate material	/

**III. Test results**

The test results relate only to the behaviour of the test specimens of a material under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

Items	Results
Total heat released (THR) of products in 1200 seconds (MJ)	358.8
Total Smoke Production (TSP) in 1200 seconds (m <sup>2</sup> )	257.9
SMOGR <sub>ARC</sub> / (m <sup>2</sup> /s <sup>2</sup> x 1000)	0.4
Whether the ceiling is ignited (if yes, record the time/s)	560
Whether there is a flashover (if yes, record the time/s)	No
Whether the flame spreads out of the specified range	No
Whether the flames emerging through the doorway (if yes, record the time/s) <sup>1)</sup>	No
Whether there is a burning droplet (if yes, record the time/s)	No

**Remark:**

- 1) The flame spreads out of the specified range means flames spread any further down the wall of the test room than 0.5m from the floor excluding the area which is within 1.2m from the corner where the ignition source is located.
- 2) Flashover didn't occur in the sample.
- 3) Installation guidance for test materials, see Annex 1
- 4) Curve of time / heat release rate -- see Annex 2, Figure 1,
- 5) Curve of time / total heat release -- see Annex 2, Figure 2,
- 6) Curve of time / smoke release rate -- see Annex 2, Figure 3,
- 7) Curve of time / total smoke release -- see Annex 2, Figure 4.

To be continued....



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### Annex 1

Installation guidance for test materials

#### 1. Left side wall part (3.6m)

Four 3.6m length(three 0.76m wide,one 0.12m wide)samples are installed horizontal arrangement , and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 3 screws.

#### 2. Right side wall part (3.6m)

Three 3.6m length(two 0.76m wide,one 0.12m wide)samples are installed horizontal arrangement , and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 3 screws;

The top sample is cut and spliced by two 2.4m samples(one 2.4m length,the other1.2m length),each sample is fixed with 4 screws.

#### 3. Wall part (2.4m)

Four 2.4m length (three 0.76m wide,one 0.12m wide) samples are installed horizontal arrangement ,and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 2 screws.

#### 4.Ceiling part

Four 3.6m length (three 0.76m wide,one 0.12m wide)samples are installed side by side, and three wider samples are fixed with 6 screws, the 0.12m wide sample is fixed with 3 screws.

To be continued....



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Annex 2

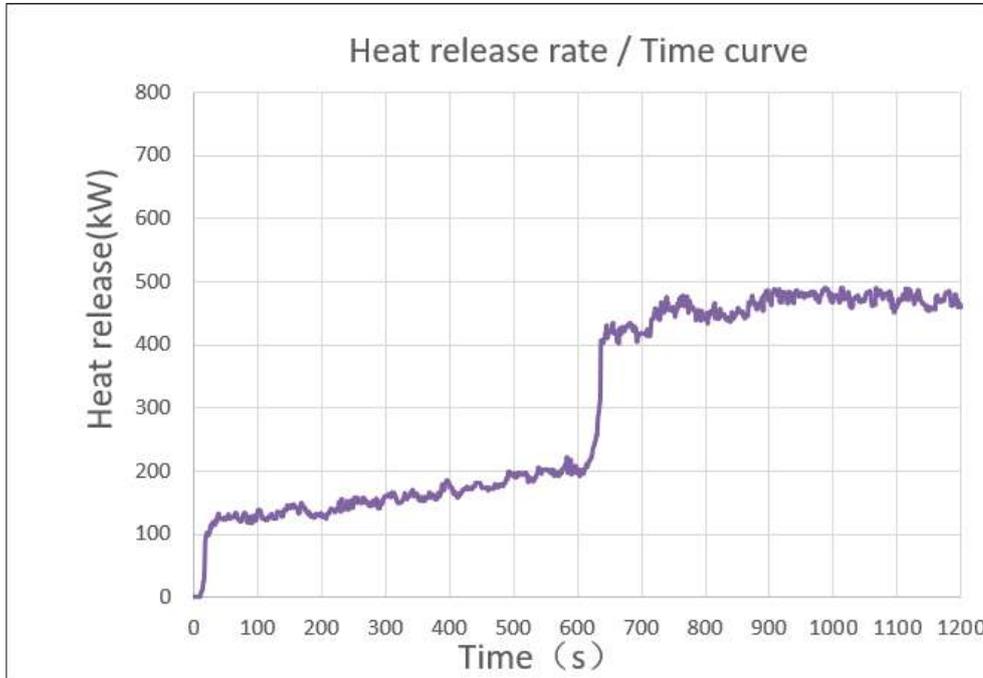


Figure 1

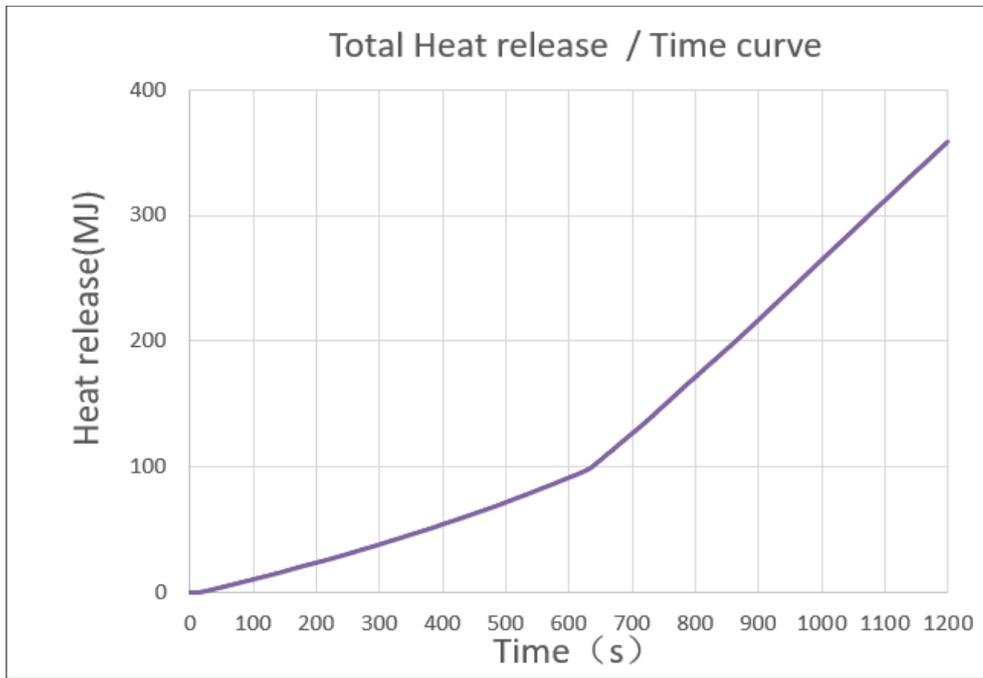


Figure 2

To be continued...



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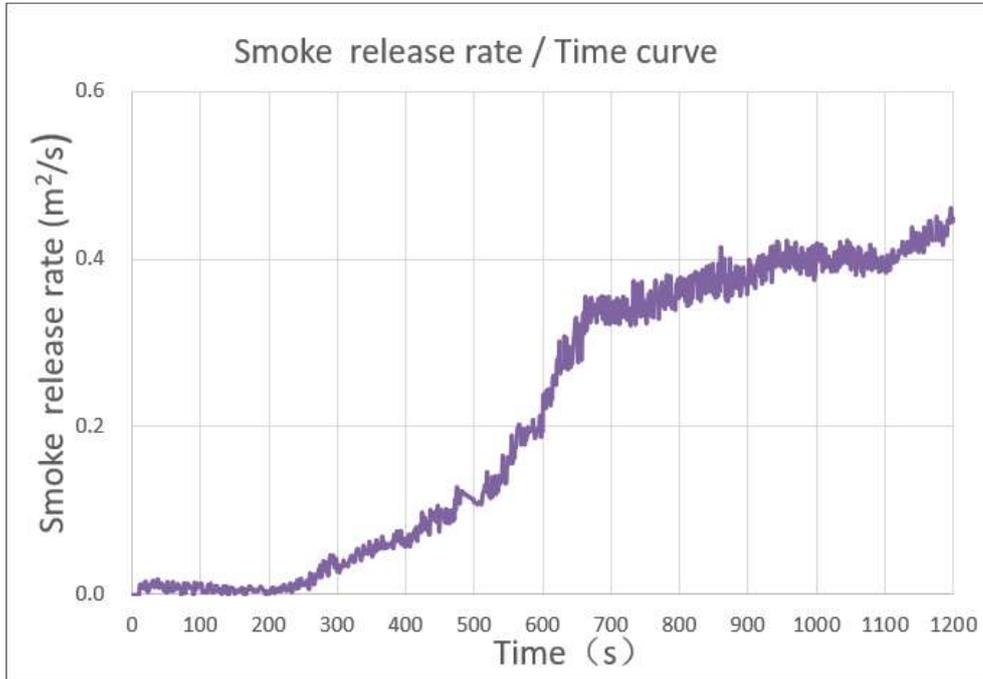


Figure 3

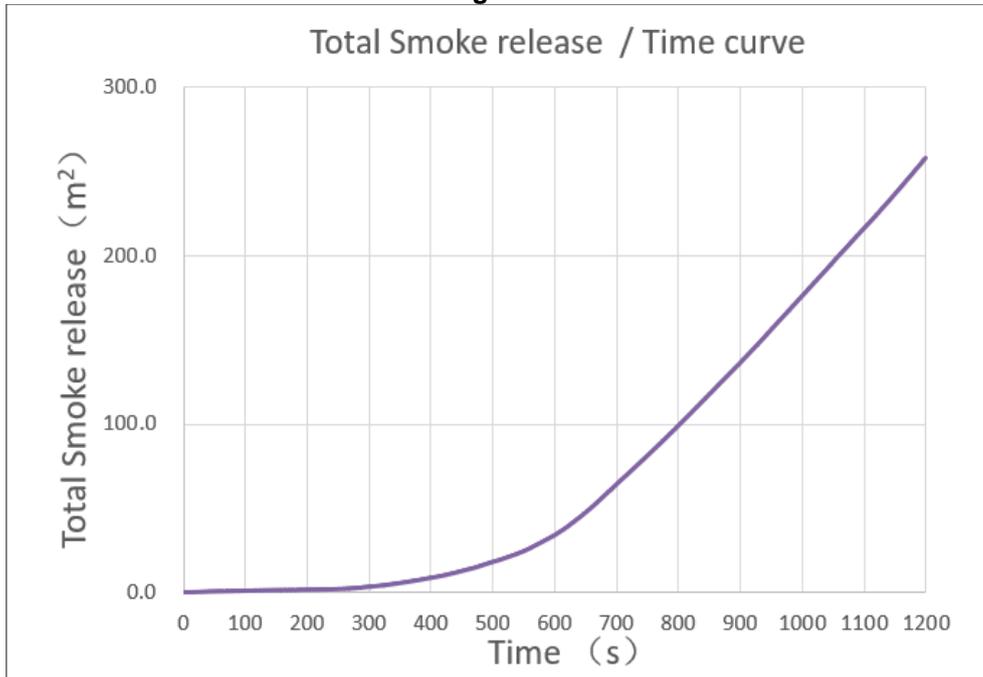


Figure 4

To be continued....



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Photo Appendix:



Figure 1. Before test



Figure 2. Ignition (0min:22s)



Figure 3. The sample on the right side of the ceiling began to fall off (12min:23s)



Figure 4. The sample in the middle of the ceiling a began to fall off (13min:39s)

To be continued....



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Photo Appendix:



Figure 5. The sample on the left side of the ceiling began to fall off (17min:39s)



Figure 6. After tested

SGS authenticate the photo on original report only

**Remark:** The test was performed by SGS internal laboratory.

\*\*\*End of Report\*\*\*



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