

TEST REPORT

No. : SZIN2311002595PL06_EN

Date : 2023-12-08

Page: 1 of 12

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CUSTOMER NAME: BEIJING NEW BUILDING MATERIALS PUBLIC LIMITED COMPANY
ADDRESS: TOWER A,BNBM CENTER,FUTURE SCIENCE PARK,NO.9,QIBEI ROAD,CHANGPING DIST,BEIJING,PEOPLE'S REPUBLIC OF CHINA

Sample Name : GNG Moisture Resistant Gypsum Board

Product Specification : 2440×1220×12

Manufacturer : Beijing New Building Materials Public Limited Company

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.

SGS Ref. No. : SDFS2311007618FF

Date of Receipt : 2023-11-28

Testing Period : 2023-11-28 ~ 2023-12-08

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)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. ShenZhen Branch.

Jessie Ho
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center Materials Laboratory

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Test Result Summary

| No. | Test(s) Requested | Result(s) | Comments |
|-----|---|-----------------------|---|
| 1 | BS 476 Part 6:1989+A1:2009+C1:2014 Fire tests on building materials and structures Part 6 Method of test for fire propagation for products. | Refer to next page(s) | The tested sample complies with the requirement of Class 0 of UK Building Regulations 2010 Approved Document B(2006 edition), Volume 1- |
| 2 | BS 476 Part 7:1997+CORR:2014 Fire tests on building materials and structures Part 7: Method of test to determine the classification of the surface spread of flame of products. | Class 1 | Dwellinghouse, appendix A paragraph 13. |
| 3 | BS 476-4:1970+CORR:2014 Fire tests on building materials and structures-Part 4: Non-combustibility test for materials. | Non-combustible | / |

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Test 1

I. Test conducted

This test was conducted in accordance with the procedure specified in BS 476 Part 6:1989+A1:2009+C1:2014 —Fire tests on building materials and structures — Part 6: Method of test for fire propagation for products.

II. Sample details

| | |
|---------------------|-------------------------------------|
| Sample description★ | GNG Moisture Resistant Gypsum Board |
| Thickness | 12mm |
| Color | Green |
| Specimen size | 225mm×225mm |

The above data and information with ★ 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. results apply to the sample as received.

III. Test details

| | |
|--|---|
| Conditioning of specimens: | Prior to testing, the sample was conditioned to constant mass at a temperature of $(23 \pm 2) ^\circ\text{C}$, and a relative humidity of $(50 \pm 5) \%$, and maintained in this condition until required for testing. |
| Exposed Face: | Marked surface |
| Form in which the specimens to be tested | Composite |



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IV. Test results

Throughout the test on each specimen, carefully observe the material's behaviour within the apparatus and take special note of any of the following phenomena listed in clause 9.2 of the standard. None of the listed phenomena was observed and the test results on all three specimens tested were valid.

The index of the performance for the specimen was determined as follows:

$$S_1 = \sum_{t=0.5}^{t-3} \frac{\theta_s - \theta_c}{10t}, S_2 = \sum_{t=4}^{t-10} \frac{\theta_s - \theta_c}{10t}, S_3 = \sum_{t=12}^{t-20} \frac{\theta_s - \theta_c}{10t}, S = S_1 + S_2 + S_3$$

Where:

S = index of performance for each of the specimens tested and S1, S2 and S3 are sub-indices

t = Time in minutes from the origin at which readings are taken

θ_s = Temperature rise in °C for the specimen at time, t

θ_c = Temperature rise in °C for the calibration sheet at time, t

Fire Propagation index $I = i_1 + i_2 + i_3$

Where, i_1 , i_2 and i_3 are given by the expressions:

$$i_1 = \frac{1}{3} [(S_1)_A + (S_1)_B + (S_1)_C], i_2 = \frac{1}{3} [(S_2)_A + (S_2)_B + (S_2)_C], i_3 = \frac{1}{3} [(S_3)_A + (S_3)_B + (S_3)_C]$$

The following test results were obtained for each specimen tested:

| Specimen No. | Sub - indices | | | Index of performance |
|--------------|----------------|----------------|----------------|----------------------|
| | S ₁ | S ₂ | S ₃ | S |
| A | 0.0 | 0.0 | 0.0 | 0.0 |
| B | 0.0 | 0.0 | 0.0 | 0.0 |
| C | 0.0 | 0.0 | 0.0 | 0.0 |



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| Number of Specimens tested | Sub-index i_1 | Sub-index i_2 | Sub-index i_3 | Fire Propagation index I |
|----------------------------|-----------------|-----------------|-----------------|----------------------------|
| 3 | 0.0 | 0.0 | 0.0 | 0.0 |

Test 2:

I. Test conducted

This test was performed in accordance with the procedure specified in BS 476 Part

7:1997+CORR:2014 Fire tests on building materials and structures Part 7. Method of test to determine the classification of the surface spread of flame of products.

II. Sample details

| | |
|---------------------|-------------------------------------|
| Sample description★ | GNG Moisture Resistant Gypsum Board |
| Thickness | 12mm |
| Color | Green |
| Specimen size | 885mm×270mm |

The above data and information with ★ was / were submitted and identified on behalf of the client.

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III. Test details

| | |
|--|--|
| Conditioning of specimens: | Prior to testing, the sample was conditioned to constant mass at a temperature of (23 ± 2) °C, and a relative humidity of $(50 \pm 10)\%$, and maintained in this condition until required for testing. |
| Exposed Face: | Marked surface |
| Form in which the specimens to be tested | Composite |
| Mounting of specimens | Unexposed face of the specimen placed directly on, and in direct contact with, a backing board without any adhesion or mechanical fixing. |



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Irradiance along horizontal reference line on the calibration board

| Distance along reference line from inside edge of specimen holder | Irradiance / (kW/m ²) | | |
|---|-----------------------------------|-----------|------|
| | mm | Specified | Min. |
| 75 | 32.5 | 32.0 | 33.0 |
| 225 | 21.0 | 20.5 | 21.5 |
| 375 | 14.5 | 14.0 | 15.0 |
| 525 | 10.0 | 9.5 | 10.5 |
| 675 | 7.0 | 6.5 | 7.5 |
| 825 | 5.0 | 4.5 | 5.5 |

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IV. Test results

| Specimen No. | 1 | 2 | 3 | 4 | 5 | 6 |
|--|--|----------|----------|----------|----------|----------|
| Distance (mm) | Time to travel to indicated distance (minutes:seconds) | | | | | |
| 75 | -- | -- | -- | -- | -- | -- |
| 165 | -- | -- | -- | -- | -- | -- |
| 190 | -- | -- | -- | -- | -- | -- |
| 215 | -- | -- | -- | -- | -- | -- |
| 240 | -- | -- | -- | -- | -- | -- |
| 265 | -- | -- | -- | -- | -- | -- |
| 290 | -- | -- | -- | -- | -- | -- |
| 375 | -- | -- | -- | -- | -- | -- |
| 455 | -- | -- | -- | -- | -- | -- |
| 500 | -- | -- | -- | -- | -- | -- |
| 525 | -- | -- | -- | -- | -- | -- |
| 600 | -- | -- | -- | -- | -- | -- |
| 675 | -- | -- | -- | -- | -- | -- |
| 710 | -- | -- | -- | -- | -- | -- |
| 750 | -- | -- | -- | -- | -- | -- |
| 785 | -- | -- | -- | -- | -- | -- |
| 825 | -- | -- | -- | -- | -- | -- |
| Maximum distance traveled at 1.5 minutes (mm) | <75 | <75 | <75 | <75 | <75 | <75 |
| Maximum distance traveled during the whole test (mm) | <75 | <75 | <75 | <75 | <75 | <75 |
| Time to reach maximum distance traveled | 10min | 10min | 10min | 10min | 10min | 10min |
| Observations during test | charring | charring | charring | charring | charring | charring |



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Note: 1. "--" Not reached the reference line

2. Six specimens are usually tested. If the test on any specimen is deemed to be invalid, as defined in the standard, it is permissible for up to a maximum of nine specimens to be tested in order to obtain the six valid test results.

The classification limits specified in BS 476-7:1997+CORR:2014 are given in Appendix 1.

Criteria for classification:

If the prefix "D" or suffix "R" or "Y" is included in the classification, this indicates that the results should be treated with caution. An explanation of the reason for prefix and suffixes is given in Appendix 2

Appendix 1 Classification of spread of flame

| Classification | Spread of flame at 1.5 min | | Final spread of flame | |
|----------------|----------------------------------|---------------------------|-----------------------|--------------------------------------|
| | Limit (mm) | Limit for one specimen in | Limit (mm) | Limit for one specimen in sample(mm) |
| Class 1 | 165 | 165+25 | 165 | 165+25 |
| Class 2 | 215 | 215+25 | 455 | 455+45 |
| Class 3 | 265 | 265+25 | 710 | 710+75 |
| Class 4 | Exceeding the limits for class 3 | | | |

Appendix 2 Explanation of prefix and suffixes which may be added to the classification

1. A suffix R is added to the classification if more than six specimens are required in order to obtain six valid test results (e.g. class 2R).
2. A prefix D is added to the classification of any product which does not conform to the surface characteristics specified in the standard and has therefore been tested in a modified form (e.g. class D3).
3. A suffix Y shall be added to the classification if any softening and/or other behaviour that may affect the flame spread occurs.

Classification: In accordance with the class definitions given in BS 476 Part 7:1997+CORR:2014, the tested sample is classified as **Class 1**.



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Requirement of UK Building Regulations 2010 Approved Document B (2006 edition) ,

Volume 1-Dwellinghouse appendix A paragraph 13:

A Class 0 is the highest national product performance classification for lining materials, and the requirements laid down in the UK Building Regulation 2010 Approved Document B(2006 edition), Volume 1-Dwellinghouse, appendix A paragraph 13. This is achieved if a material or the surface of a composite product is either:

- a. composed throughout of materials of a limited combustibility; or
- b. a Class 1 materials which has a fire propagation index (I) of not more than 12 and sub-index (i₁) of not more than 6.

Statements:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.



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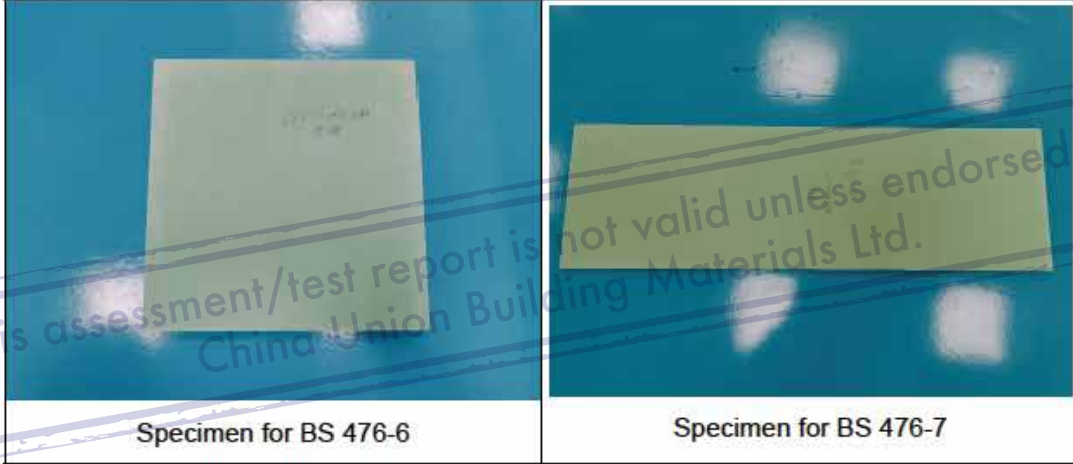
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Photo Appendix:



Specimen for BS 476-6

Specimen for BS 476-7

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TEST REPORT

No. : SZIN2311002595PL06_EN

Date : 2023-12-08

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Test 3

TESTS AND RESULTS

Test Conducted:

This test is conducted in accordance with BS 476-4:1970+CORR:2014 Fire tests on building materials and structures-Part 4: Non-combustibility test for materials.

Conditioning of specimen:

Preconditioning: Temperature: (60±5)°C; Duration: 24h

Designation of non-combustibility:

The material shall be deemed non-combustible if, during the test, none of the three specimens either

- 1) causes the temperature reading from either of the two thermocouples to rise by 50°C or more above the initial furnace temperature, or
- 2) is observed to flame continuously for 10 s or more inside the furnace.

Otherwise, the material shall be deemed combustible.

Test Results:

| Specimen | ΔT_f (°C) | ΔT_c (°C) | Flame continuance (s) |
|----------|-------------------|-------------------|-----------------------|
| 1 | 12.9 | -36.5 | 0 |
| 2 | 12.2 | -30.3 | 0 |
| 3 | 8.6 | -32.9 | 0 |

Remark: ΔT_f -Temperature rise of the furnace thermocouples above the initial furnace temperature;

ΔT_c -Temperature rise of the sample centre thermocouples above the initial furnace temperature;

Conclusion:

According to the test result, the submitted material shall be deemed non-combustible.



SGS-CTC (Shenzhen) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Materials Laboratory

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Otherwise, the material shall be deemed combustible.

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| 3 | 8.6 | -32.9 | 0 |

Remark: ΔT_f -Temperature rise of the furnace thermocouples above the initial furnace temperature;

ΔT_c -Temperature rise of the sample centre thermocouples above the initial furnace temperature;

Conclusion:

According to the test result, the submitted material shall be deemed non-combustible.



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SAMPLE INFORMATION AND PICTURES

Density: 650 kg/m³

Actual size of Specimen: 40mm×40mm×10mm



Appendix information:

The above test methods were carried out by SGS-CSTC Standards Technical Services Co., Ltd.
Shunde Branch.

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

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SGS-CSTC Standards Technical Services Co., Ltd.
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