[redacted]

Sample Description :WPC WALL CLADDING AND DECKING

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

**********

SGS Ref No. :AJFS2308007109FF

Sample Receiving Date :Aug 04, 2023

Test Performing Date :Aug 04, 2023 to Aug 16, 2023

Test Performed :Selected test(s) as requested by applicant

Test Result Summary

| No. | Test(s) Requested | Result(s) | Comments |
|---|---|---|---|
| 1 | AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release. | See attached sheet | / |
| For further details, please refer to the following page(s) | | | |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

scan to see the report
SDHL2308013569HI

Peter Zhao
Authorized Signatory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

I. Test conducted

This test was performed in accordance with AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.

II. Sample details

| | |
|---|---|
| Description | WPC Wall Cladding and Decking (provided by client) |
| Color | Brown |
| Thickness | 22.5mm |
| Density | 12.6 kg/m2 |
| Specimen size | 600mm×450mm |
| Test surface | Convex surface |

| | Temperature (℃) | Humidity (%) | Duration (d) |
|---|---|---|---|
| Conditioning | 20±2 | 65±5% | 7 |

Note: The specimens shall be conditioned to constant mass (see ISO 291).

Mounting or fixing method for test sample:

Using fibre-reinforced cement board as substrate, hold the sample and substrate against the specimen support frame by using the specimen clamping ring. Have vertical joints in the specimens.

III. Test results

The mean values and standard errors:

| Items | | Mean value | Standard error |
|---|---|---|---|
| Ignition Time, (min) | | NI | NA |
| Flame propagation time, (s) | | NA | NA |
| Heat release integral, (Kj/m2) | | NA | NA |
| Maximum optical density, D (m-1) | Ignition specimen | --- | --- |
| | Non-ignition specimen | 0.7319 | 0.0088 |
| Smoke release, lg D | Ignition specimen | --- | --- |
| | Non-ignition specimen | -0.1356 | 0.0053 |

Note: NI—Not ignition; NA—Not applicable

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

Note:

1) Where all specimens do not ignite, means and standard errors for smoke release shall be reported separately for those specimens that ignite and those that do not ignite. The higher of the two values shall be reported as the smoke released for the material or component.

2) Where all specimens do not ignite, indices for smoke developed shall be reported separately for those specimens that ignite and those specimens that do not ignite. The higher of the two values shall be reported as the smoke developed index for the product.

Regulatory Indices:

| Items | Regulatory Indices |
|---|---|
| Ignitability index (Range 0 to 20) | 0 |
| Spread of flame index (Range 0 to10) | 0 |
| Heat evolved index (Range 0 to 10) | 0 |
| Smoke developed index (Range 0 to 10) | 7 |

Supplementary Observations:

(a)Number of specimens tested: 6

(b)The number of specimens that ignite: No

(c)Where flashing was encountered, and ignition was based on a 10-second flash: No

(d)The number of specimens did emit a radiation intensity rise of 1.4Kw/m2: No

(e)Any observations of associated phenomena: No

(f) Others: No

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

Table 1 Indices for spread of flame

| 1.33 x mean flame propagation time, s | | Index |
|---|---|---|
| ≥270 | | 0 |
| ≥240 | <270 | 1 |
| ≥210 | <240 | 2 |
| ≥180 | <210 | 3 |
| ≥150 | <180 | 4 |
| ≥120 | <150 | 5 |
| ≥90 | <120 | 6 |
| ≥60 | <90 | 7 |
| ≥30 | <60 | 8 |
| ≥10 | <30 | 9 |
| | <10 | 10 |

Table 2 Indices for heat evolved

| Mean value of the integral from the radiation intensity curves Kj/m2 | | Index |
|---|---|---|
| | <25 | 0 |
| ≥25 | <50 | 1 |
| ≥50 | <75 | 2 |
| ≥75 | <100 | 3 |
| ≥100 | <125 | 4 |
| ≥125 | <150 | 5 |
| ≥150 | <175 | 6 |
| ≥175 | <200 | 7 |
| ≥200 | <225 | 8 |
| ≥225 | <250 | 9 |
| ≥250 | | 10 |

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch
检验检测专用章 Inspection & Testing Services

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

Table 3 Indices for smoke developed

| Mean optical density, m-1 | | | | Index |
|---|---|---|---|---|
| Expressed in terms of K* | | Expressed numerically | | |
| | <K | | <0.0082 | 0† |
| ≥K | <2K | ≥0.0082 | <0.0164 | 1 |
| ≥2K | <22K | ≥0.0164 | <0.0328 | 2 |
| ≥22K | <23K | ≥0.0328 | <0.0656 | 3 |
| ≥23K | <24K | ≥0.0656 | <0.131 | 4 |
| ≥24K | <25K | ≥0.131 | <0.262 | 5 |
| ≥25K | <26K | ≥0.262 | <0.525 | 6 |
| ≥26K | <27K | ≥0.525 | <1.05 | 7 |
| ≥27K | <28K | ≥1.05 | <2.10 | 8 |
| ≥28K | <29K | ≥2.10 | <4.20 | 9 |
| ≥29K | | ≥4.20 | | 10 |

* Where K is a constant = 0.0082

† Where doubt exists in the resolving of optical density below 0.016 m-1 the index allotted should be '0 to 1'.

Statement:

1) The results only apply to the specimen mounted as described in this report.

2) The results of this fire test may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions.

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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

Photo Appendix:




Remark: This test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch.

***End of Report***

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com
Member of the SGS Group (SGS SA)