

No.: GZIN2305000119CM01_EN

Date: 2023-05-23

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CUSTOMER NAME:

FOSHAN YAJ BUILDING CO., LTD

ADDRESS:

ROOM 501 NANGUO BUILDING, GUICHENG, NANHAI DISTRICT,

FOSHAN CITY, GUANGDONG PROVINCE, CHINA

Sample Name

Polystyrene (EPS) sandwich panel

Product Specification

Panel thickness 75 mm, pre-painted steel sheet thickness 0.4 mm, EPS

density is 20kg/m3

Manufacturer

FOSHAN YAJ BUILDING CO., LTD

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.

Date of Receipt

: 2023-05-06

Testing Period

2023-05-06 ~ 2023-05-23

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. Guangzhou Branch.

Tobby Yang

Authorized signatory



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Summary of Results:

	No.	Test Item	Test Method	Result	Conclusion
ľ	1	Distributed load test	With reference to AS/NZS 1170.1:2002	See Result	1
		of roof panel	and client's requirement	See Nesult	
Ī	2	Point load test of	With reference to AS/NZS 1170.1:2002	See Result	,
	2	roof panel	and client's requirement	See Nesult	,

Pass: Meet the requirements; Note:

Fail: Does not meet the requirements;

N/A: Not Apply to the judgment.



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1. Test Item: Distributed load test of roof panel

Sample Description: See photo

Test Method: With reference to AS/NZS 1170.1:2002 and client's requirement

Test Condition:

Specimen: 3600mm×983mm×112mm,3pcs

Test procedure:

- 1. Place the roof panel horizontally on two support beams of which the support width is 100mm, the test span is 3400mm as per client's requirement
- 2. Apply a load on the roof panel in steps of 0.5kPa increments, each load of 0.5kPa shall be applied in a period of 5min, recording the corresponding deformation at the mid-point on both sides
- 3. Continue to increase the load until failure occur, record the maximum load.

Test result of sample 1#:

Test load	Deformation 1(mm)	Deformation 2(mm)
0.5kPa	6.38	6.84
1.0kPa	12.70	13.00
1.5kPa	20.83	20.98
2.0kPa	29.72	29.65
2.5KPa	40.12	40.00
Failure load	F _{max} =2.5kPa(850kg), the	roof panel was collapsed

Test result of sample 2#:

Test load	Deformation 1(mm)	Deformation 2(mm)
0.5kPa	7.68	7.21
1.0kPa	14.00	13.74
1.5kPa	22.09	21.36
2.0kPa	29.99	29.76
Failure load	F _{max} =2.3kPa(780kg), the	roof panel was collapsed



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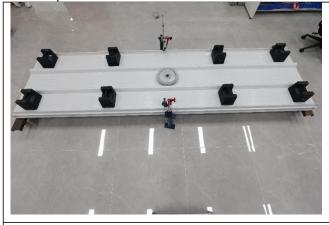
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Test result of sample 3#:

Test load	Deformation 1(mm)	Deformation 2(mm)
0.5kPa	4.36	4.81
1.0kPa	10.44	12.05
1.5kPa	17.87	21.44
2.0kPa	26.42	32.74
2.5KPa	33.21	42.10
Failure load	F _{max} =2.6kPa(890kg), the	roof panel was collapsed

Test photo:





Load at 0.5kPa(170kg)

Load at 1.0kPa(340kg)



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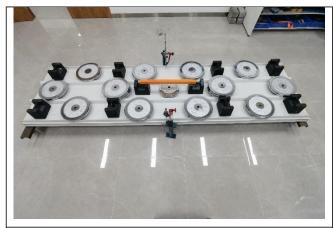
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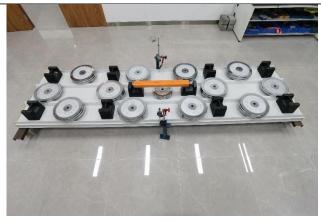


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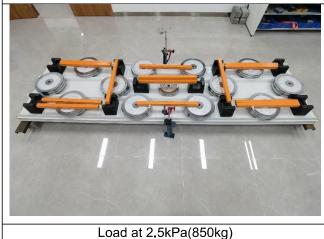
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Load at 1.5kPa(510kg)

Load at 2.0kPa(680kg)







Sample 1# after test



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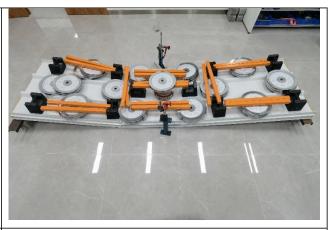


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Sample 2# after test

Sample 3# after test

2. Test Item: Point load test of roof panel

Sample Description: See photo

Test Method: With reference to AS/NZS 1170,1:2002 and client's requirement

Test Condition:

Specimen: 3600mm×983mm×112mm, 3pcs

Test procedure:

- 1. Place the roof panel horizontally on two support beams of which the support width is 100mm, the test span is 3400mm as per client's requirement
- 2. Apply a concentrated load on the roof panel in steps of 500N increments via a test block of which the diameter is 21mm, start the test from 500N, each load shall be held for 5min, recording the corresponding deformation at the center of panel.
- 3. Continue to increase the load until failure occur, record the maximum load.



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Test result of sample 4#:

Test load	Deformation (mm)
500N	4.80
1000N	8.36
1400N	13.01
1500N	14.21
2000N	19.95
2500N	25.17
3000N	30.34
3500N	37.61
Failure load	F _{max} =3589N, the roof panel showed structural failure

Test result of sample 5#:

Test load	Deformation (mm)
500N	5.32
1000N	10.00
1400N	14.21
1500N	15.28
2000N	20.59
2500N	26.35
3000N	31.52
Failure load	F _{max} =3387N, the roof panel showed structural failure



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Test result of sample 6#:

Test load	Deformation (mm)
500N	4.90
1000N	8.99
1400N	13.24
1500N	14.24
2000N	18.81
2500N	23.73
3000N	28.83
Failure load	F _{max} =3497N, the roof panel showed structural failure

Test photo:





Sample



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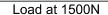
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Load at 1000N







Load at 2000N

Load at 2500N



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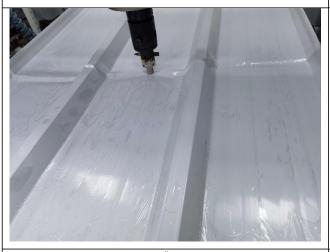
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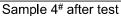




Load at 3000N









Sample 5# after test



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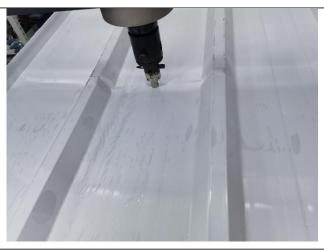
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Sample 6# after test

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