

TEST REPORT

No. : SHIN2012078381CM

Date : Dec 23, 2020

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CUSTOMER NAME: SHANDONG FUSHI WOOD CO., LTD.
 ADDRESS: SOUTH RING ROAD NORTH BOHAI AVENUE TO THE SOUTH,
 YANGKOU TOWN, SHOUGUANG CITY, SHANGDONG, CHINA

Sample Name : H2O BEAM
 Product Specification : 200*3000MM/3300MM/1500MM
 Manufacturer : SHANDONG FUSHI WOOD 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.

Test Required : Please see the next page(s)
 Ref. Standard : Please see the next page(s)
 Date of Receipt : Dec 02, 2020
 Testing Start Date : Dec 02, 2020
 Testing End Date : Dec 22, 2020
 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
 Service (Shanghai)Co., Ltd.



Erin Huang
 Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Shear Resistance	With reference to EN 13377:2002 Annex A and Client's requirement	See result	/
2	Bending Resistance	With reference to EN 13377:2002 Annex A and Client's requirement	See result	/
3	Bearing Resistance	With reference to EN 13377:2002 Annex A and Client's requirement	See result	/
4	Bending Stiffness	With reference to EN 13377:2002 Annex A and Client's requirement	See result	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



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Original Sample Photo(s):

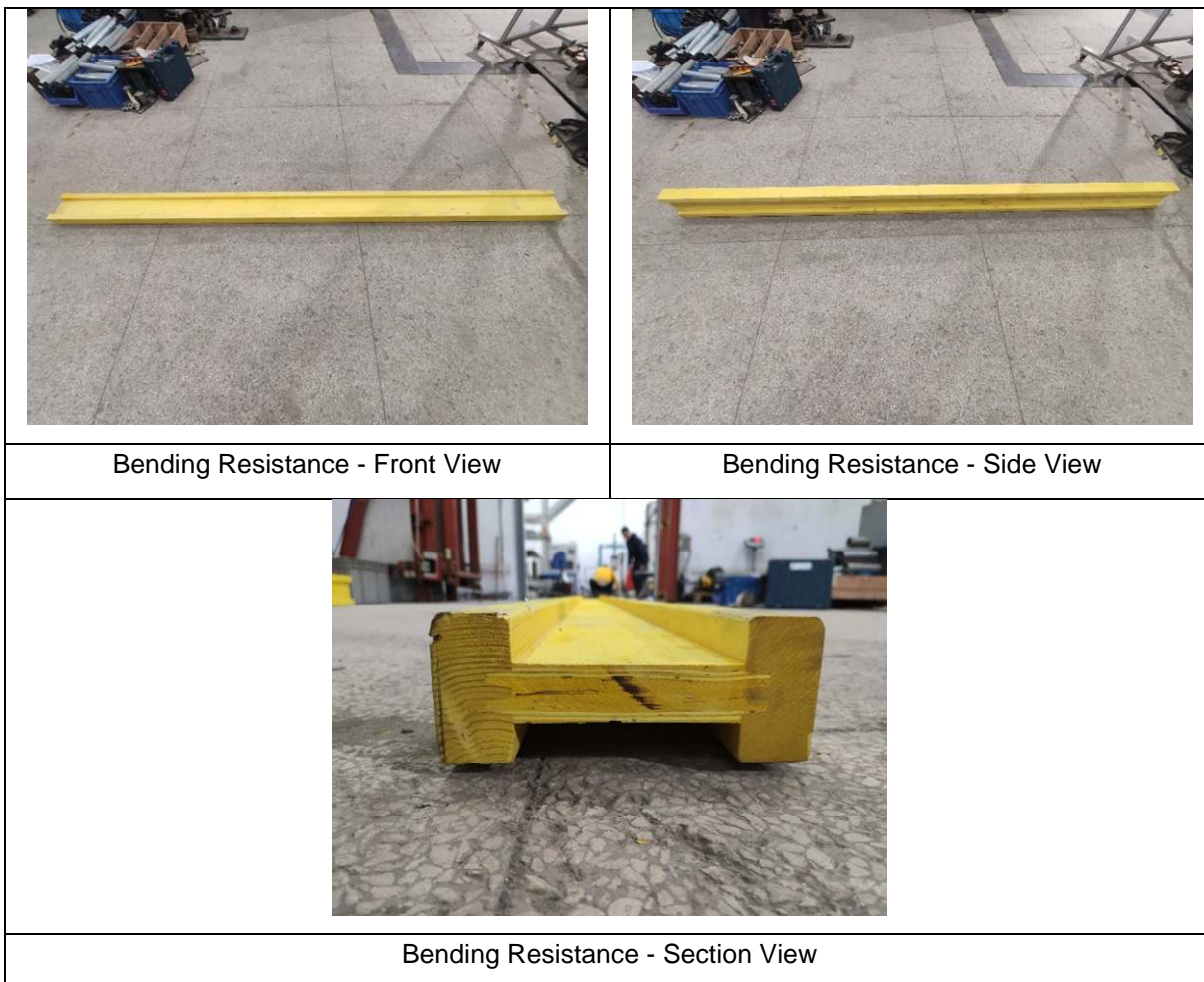


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Test conducted: With reference to EN 13377:2002 Annex A and Client's requirement

I. Sample Detail

Test Item	Sample nominal dimensions			
	Length of beam (L)	Flange width (b)	Depth of beam (H)	Depth of flange (h)
Shear Resistance (V)	1500mm	80mm	200mm	40mm
Bending Resistance (M)	3300mm	80mm	200mm	40mm
Bearing Resistance (R _b)	3000mm	80mm	200mm	40mm

II. Test Result

Test Item	Test Result	Failure Location
Shear Resistance (V)	29.77 kN	End cracking
Bending Resistance (M)	23.65 kNm	Close to the middle part cracking
Bearing Resistance (R _b)	55.24 kN	End cracking
Bending Stiffness (E _i)	460 kNm ²	
Remark	Classification cannot be given based on single test result of each test item.	



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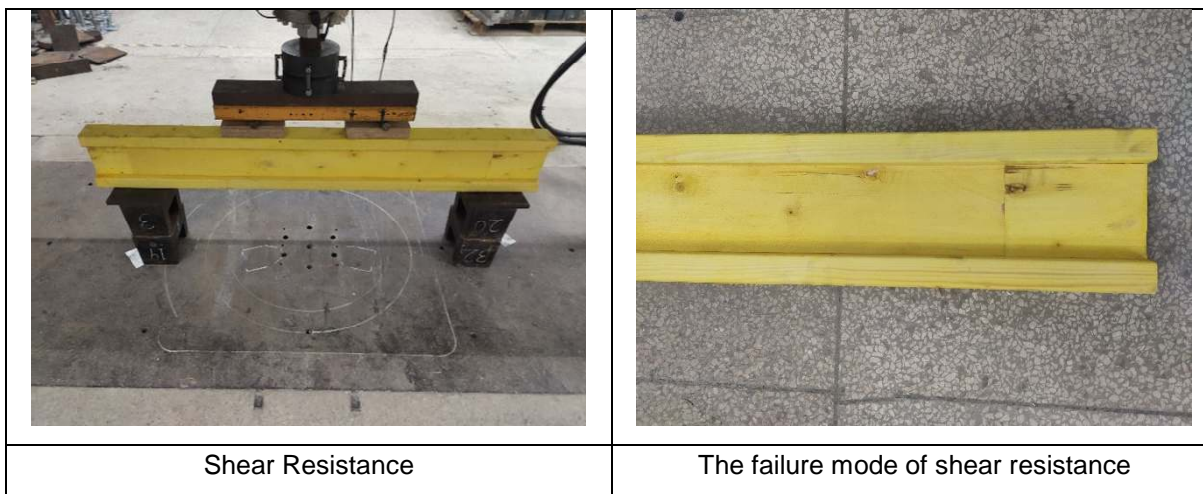
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III. Classification of panel web beams according to EN 13377:2002 Table 1 is cited below for reference:

Table 1—Classification, dimensions and structural properties of panel web beams

1	2	3	4	5	6	7
Class	Beam depth H (mm)	Minimum flange width b (mm)	E_I (kNm^2)	V_k (kN)	$R_{b,k}$ (kN)	M_k (kNm)
P16	160	65	200	18.4	36.8	5.9
P20	200	80	450	23.9	47.8	10.9
P24	240	80	700	28.2	56.4	14.1

Test photos:







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Bending Resistance	The failure mode of bending resistance
	
Bearing Resistance	The failure mode of bearing resistance

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

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