

**TEST REPORT**

No. : TJIN2211006464CM

Date : Dec 05, 2022

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scan to see the report



TJIN2211006464CM

CUSTOMER NAME: K.O.H. INTERNATIONAL CO., LTD  
ADDRESS: 45 MOO 1, BORNGERN, LADLUMKAEW, PRATHUMTHANEE 12140,  
THAILAND

Sample Name : Ladder Beam  
Product Specification : 48.3\*3.2mm  
Material and Mark : Q235

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.

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Date of Receipt : Nov 29, 2022  
Testing Start Date : Nov 29, 2022  
Testing End Date : Dec 05, 2022  
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(Tianjin) Co., Ltd

Duke Gai  
Authorized signatory

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Ladder Beam length:6000mm

Test Method: EN 131-2:2006

Test results (Please see Annex A clause 1~2 for details of test results):

Test Property	Test Method	Test Principle & Requirements	Test Result
Strength test of stiles	EN 131-2:2006	A test load $F$ of 1100 N shall be applied for a duration of one min. The measurement shall be taken one min after removal of the test load. The permanent deformation $f$ of the ladder shall not exceed 0.1% of the distance $l$ between the supports.	Pass (See Annex A clause 1)
Bending test of the stiles	EN 131-2:2006	A test load $F$ of 750 N shall be applied vertically on the centre of the ladder for a duration of at least 1 min.  Measure the deflection.  Thereby the maximum permissible deflection $f_{max}$ as a function of the distance $l$ between the supports shall be:  — $f_{max} = 5 \times l^2 \times 10^{-6}$ mm for ladders of length less than or equal to 5 m; — $f_{max} = 0.043 \times l - 90$ mm for ladders of length more than 5 m and less than or equal to 12 m; — $f_{max} = 0.06 \times l - 294$ mm for ladders of length more than 12 m.	Pass (See Annex A clause 2)

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## Annex A Details of the test results

## 1. Strength test of stiles

Test load	The distance between the supports	The permanent deformation $f$	Test Requirements	Conclusion
1100N	5600 mm	0.16mm	$f \leq 5.6\text{mm}$	Pass

## 2. Bending test of the stiles

Test load	The distance between the supports	Deflection $f$	Test Requirements	Conclusion
750N	5600 mm	56.43 mm	$f \leq 150.8\text{mm}$	Pass

Note: The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

## Original Sample Photo:



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During Testing:



Strength test of stiles



Bending test of the stiles

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

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