

## TEST REPORT

No. : SHIN2510002641CM08\_EN

Date : 2025-10-24

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CUSTOMER NAME: ANHUI HAODING METAL PRODUCT LIMITED COMPANY  
ADDRESS: NO.32,GAOXIN ROAD, CHAHE ECONOMIC DEVELOPMENT ZONE,LAI'AN,ANHUI PROVINCE, CHINA

Sample Name : STEEL LADDER  
Product Specification : 6m  
Manufacturer : ANHUI HAODING METAL PRODUCT LIMITED COMPANY  
Material : Q235B

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 : 2025-10-10  
Testing Period : 2025-10-10 ~ 2025-10-24  
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 (Shanghai) Co., Ltd..

Xander Yang

Xander Yang  
Authorized signatory



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### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Strength Test for All Ladders	EN 131-2:2010+A3:2025 Clause 5.2	See Result	Pass
2	Bending Test of the Stiles	EN 131-2:2010+A3:2025 Clause 5.3	See Result	Pass
3	Lateral Deflection Test of the Ladder	EN 131-2:2010+A3:2025 Clause 5.4	See Result	Pass
4	Bottom Stile Ends Test	EN 131-2:2010+A3:2025 Clause 5.5	See Result	Pass
5	Vertical Load on Rungs, Steps and Platforms	EN 131-2:2010+A3:2025 Clause 5.6	See Result	Pass
6	Torsion Test of Rungs and Steps	EN 131-2:2010+A3:2025 Clause 5.7	See Result	Pass
7	Torsion Test for Leaning Ladders	EN 131-2:2010+A3:2025 Clause 5.21	See Result	Pass

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



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Original Sample Photo:



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### 1. Test Item: Strength Test for All Ladders

Test Method: EN 131-2:2010+A3:2025 Clause 5.2

Test Condition:

Specimen: 6000mm×446mm×50mm (Length × Width × thickness), 1pc

Ladder Type: Lean ladder

Ladder class: Professional

Test Load: 2700N

Angle of Test: 65°

Test Result:

Test Item	Test Result	Requirement in EN 131-2:2010+A3:2025 Clause 5.2	Conclusion
Strength Test for All Ladders	No fracture or crack	The ladder shall remain functional with no fracture or visible cracks. The ladder shall sustain the load without ultimate failure. Permanent deformation shall be allowed.	Pass



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### 2. Test Item: Bending Test of the Stiles

Test Method: EN 131-2:2010+A3:2025 Clause 5.3

Test Condition:

Specimen: 6000mm×446mm×50mm (Length × Width × thickness), 1pc

Ladder Type: Lean ladder

Ladder class: Professional

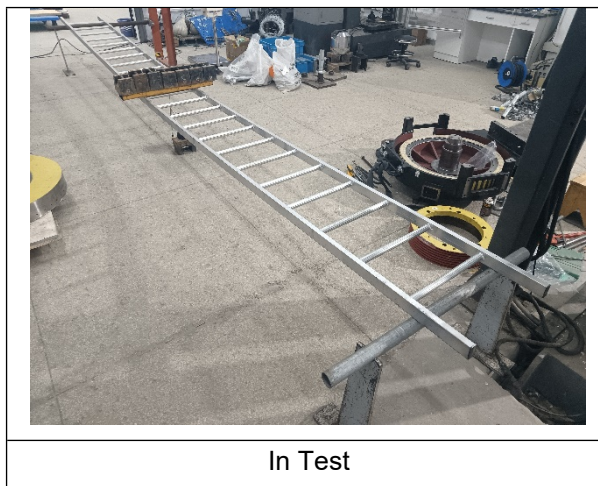
Test Load: 750N

The distance  $l$  between the supports: 5600mm

Test Result:

Test Item	Test Result	Requirement in EN 131-2:2010+A3:2025 Clause 5.3	Conclusion
Bending Test of the Stiles	93.91mm	Thereby the maximum permissible deflection $f_{max}$ as a function of the distance $l$ between the supports shall be: $f_{max} = 0.043 \times l - 90 = 150.80\text{mm}$ for ladders of length more than 5m and less than or equal to 12m.	Pass

Test Photo(s)



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### 3. Test Item: Lateral Deflection Test of the Ladder

Test Method: EN 131-2:2010+A3:2025 Clause 5.4

Test Condition:

Specimen: 6000mm×446mm×50mm (Length × Width × thickness), 1pc

Ladder Type: Lean ladder

Ladder class: Professional

Test Load: 250N

The distance  $l$  between the supports: 5600mm

Test Result:

Test Item	Test Result	Requirement in EN 131-2:2010+A3:2025 Clause 5.4	Conclusion
Lateral Deflection Test of the Ladder	5.95mm	Thereby the maximum permissible deflection $f_{max}$ as a function of the distance $l$ between the supports shall be $f_{max} = 0.005L = 28.00mm$	Pass

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### 4. Test Item: Bottom Stile Ends Test

Test Method: EN 131-2:2010+A3:2025 Clause 5.5

Test Condition:

Specimen: 6000mm×446mm×50mm (Length × Width × thickness), 1pc

Ladder Type: Lean ladder

Ladder class: Professional

Test Load: 1100N

Test Result:

Test Item	Test Result		Requirement in EN 131-2: 2010+A3:2025 Clause 5.5	Conclusion
	The Upper Stile	The Lower Stile		
Bottom Stile Ends Test	Permanent deformation=0.5mm No fracture or crack	Permanent deformation=0.5mm No fracture or crack	The permanent deflection f in each test shall not exceed 2 mm.  Neither fracture nor visible cracks are allowed.	Pass



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### Test Photo(s)



In Test - The Upper Stile



In Test- The Lower Stile

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### 5. Test Item: Vertical Load on Rungs, Steps and Platforms

Test Method: EN 131-2:2010+A3:2025 Clause 5.6

Test Condition:

Specimen: 6000mm×446mm×50mm (Length × Width × thickness), 1pc

Ladder Type: Lean ladder

Ladder class: Professional

Test load: 2600N

Inner width  $b_1$ : 398mm

Test Result:

Test Item	Test Result	Requirement in EN 131-2:2010+A3:2025 Clause 5.6	Conclusion
Vertical Load on Rungs, Steps and Platforms Test of the Ladder	0.01mm	The maximum permanent deformation after removal of the test-load shall be less than or equal to $0.5\%b_1=1.99\text{mm}$	Pass



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### 6. Test Item: Torsion Test of Rungs and Steps

Test Method: EN 131-2:2010+A3:2025 Clause 5.7

Test Condition:

Specimen: 6000mm×446mm×50mm (Length × Width × thickness), 1pc

Ladder Type: Lean ladder

Ladder class: Professional

Test load: 50Nm

Test Result:

Test Item	Test Result	Requirement in EN 131-2:2010+A3:2025 Clause 5.7	Conclusion
Torsion Test of Rungs and Steps	0.1°	After the test a permanent deformation shall be 1° at maximum with a tolerance of ±0.2°.	Pass

Test Photo(s)



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### 7. Test Item: Torsion Test for Leaning Ladders

Test Method: EN 131-2:2010+A3:2025 Clause 5.21

Test Condition:

Specimen: 6000mm×446mm×50mm (Length × Width × thickness), 1pc

Ladder Type: Lean ladder

Ladder class: Professional

Test Load: 638N

The distance l between the supports: 5600mm

Test Result:

Test Item	Test Result	Requirement in EN 131-2:2010+A3:2025 Clause 5.21	Conclusion
Torsion Test for Leaning Ladders	$f_1=77.04\text{mm}$ , $f_2=69.12\text{mm}$ , $b_u=446\text{mm}$ , $f_1-f_2=7.92\text{mm}$ , $0.07b_u=31.22\text{mm}$ , $f_1-f_2<0.07b_u$	<p>The difference between the deflections of the two stiles shall meet the following equation: <math>f_1-f_2\leq 0.07b_u</math> where <math>f_1</math> is the vertical displacement of the center of the stile which was loaded; <math>f_2</math> is the vertical displacement of the center of the stile which was not loaded; <math>b_u</math> is the external width of the ladder section at the location of the applied load.</p>	Pass



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Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

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