

YONGKANG AOYI INDUSTRIAL AND TRADING CO., LTD  
 LONGSHAN INDUSTRIAL BASE, YONGKANG CITY, ZHEJIANG, CHINA

Sample Description : TWO SECTION EXTENSION LADDER 2\*14 STEPS  
 Item No. : AY-214

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.

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Sample Receiving Date : Dec 27, 2024  
 Test Performing Date : Dec 27, 2024 to Jan 14, 2025  
 Test Performed : Selected test(s) as requested by applicant  
 Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
EN 131-1: 2015+A1-2019	Pass
EN 131-2: 2010+A2:2017	Pass
EN 131-3: 2018	Pass

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

*Nova Kuang*

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 Authorized Signatory



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**Test Conducted: Based on**

**EN 131-1: 2015+A1-2019 ladders- terms, types, functional sizes**

**EN 131-2: 2010+A2:2017 ladders- requirements, testing, marking**

**1. Scope:**

This standard specifies the general design features, requirements and test methods for portable ladders. It does not apply to step stools or ladders for specific professional use such as fire brigade ladders roof ladders and mobile ladders. It does not apply to ladders used for work on or near live electrical systems or installations.

In the working position all ladders are determined for a maximum static vertical load of 150kg.

Ladders are to be used by one person only per ascending leg of ladder.

Client claim maximum permissible load: 150 Kg

**2. Ladder Type:** Two-piece combination ladders

**3. Grade of ladder:** Professional

**4. Test result: (details shown as following tables)**

**Table 1: Test Result of EN 131-1: 2015+A1-2019**

Clause	Test item	Result
4 Function sizes		
4.1	General	--
4.2	Leaning rung ladders	NA
4.3	Standing rung ladders	NA
4.4	Combination ladders	Pass
4.5	Leaning step ladders	NA
4.6	Standing step ladders	NA
4.7	Standing rung and step ladder	NA

**Table 2: Test Result of EN 131-2: 2010+A2:2017**

Clause	Test item	Result
4 Requirements		
4.1	General	--
4.2	Materials	Pass (See Annex 1)
4.3	Design	Pass
4.4	Surface finish	Pass
4.5	Hinges	NA
4.6	Opening restraints	Pass



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Clause	Test item	Result
4.7	Rungs/steps/platforms	Pass
4.8	Platform	NA
4.9	Antiskid devices	Pass
4.10	Extending ladders and sectional ladders	Pass
5 Testing		
5.1	General	--
5.2	Strength test of stiles	Pass
5.3	Bending test of the stiles	Pass
5.4	Lateral deflection test of the ladder	Pass
5.5	Bottom stile ends test	Pass
5.6	Vertical load on rungs, steps and platforms	Pass
5.7	Torsion test of rungs and steps	Pass
5.8	Test of opening restraints and hinges of standing ladders	Pass
5.9	Test for ladder rung/step hooks of extending ladders and combination ladders	Pass
5.10	Kick-up test of the platform of standing ladders	NA
5.11	Feet pull test	Pass
5.12	Test on hand-/kneerails	NA
5.13	Maximum extension of ladder	Pass
5.14	3-part combination ladder in A-position test	NA
5.15	Torsion on ladder length	Pass
5.16 Test methods for plastic ladders		
5.16.1	Thermoset plastics and composite materials	NA
5.16.2	Reinforced thermoplastics	NA
5.16.3	Dielectric test	NA
5.17	Durability test for standing ladders	Pass
5.18	Base slip test for leaning ladder	Pass
5.19	Strength test for lateral type stabilizers on leaning ladders which are in the plane of the ladder	NA



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Clause	Test item	Result
5.20	Strength test for pole type stabilizers on leaning ladders which are not in the plane of the ladder	NA
5.21	Torsion test for leaning ladder	Pass
6 Marking and user instructions		
6	Marking and user instructions	Pass (See remark 2)

**Remark:**

- 1.NA = Not applicable.
- 2.Only the soft copy of marking and user instructions were assessed.

**Annex 1 (SGS Ref. No.: GZIN2501000189ML01\_EN )**

Tensile Test:

Test Method: ISO 6892-1:2019

Test item	Specimen type	Elongation after fracture, A <sub>50mm</sub> (%)
Result-Leg	Rectangular specimen	11.0
Result-Beam	Rectangular specimen	11.0



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**Test Conducted:** Based on EN 131-3:2018 Ladders Part 3: Marking and user instructions

**Test Results:** Details shown as following table

Section	Test Method/Requirement	Test result
6	<b>Marking and user instruction</b>	--
6.1	<p><b>General</b>                      All marking detailed under Clause 6 shall be fixed permanently, according to EN 131-2, to the ladder surface.                      In 6.3, the minimum requirements for marking and user instructions are specified.                      The user instruction shall list the items to be inspected and checked. The minimum list of items is shown in Annex A. Details of how to obtain the pass/fail criteria shall be in the user instructions or marked on the ladder;                      The user instruction shall be supplied with the ladder and should be made available on the producer's website also.                      The user instruction shall include identity and address of the producer and/or distributor including website address.                      User instructions shall repeat all safety markings which are on the ladder.                      The maximum number of safety signs should be reduced to a number that users are able to identify and comply with when using the ladder.</p>	Pass
6.2	<p><b>Basic marking on the ladder</b>                      Basic marking information may be given in the form of safety signs or text. The marking shall include:                      a) identity and address of the producer and/or distributor including website address for information about the ladder;                      NOTE EU Directive 2001/95/EC requires an address of the distributor inside the European Community if the producer is established outside the European Community.                      b) type of ladder and possible modes of use (description of the type, number and length of the parts, maximum length of ladder in use, maximum standing height measured in position of use according to the recommendation of the manufacturer);                      c) classification of use "professional" or "non-professional" as specified in EN 131-2;                      d) number of the general standard EN 131 or if a dedicated standard exists (e.g. a multi-hinge ladder according to EN 131-4) the number of this standard (e.g. EN 131-4).;                      e) month and year of production and/or serial number (may also be stamped);                      f) weight of the ladder (in kg) and maximal total load (in kg);                      g) insulation, if any.                      Information a), b), c) and f) shall also appear on the packaging or be otherwise clearly visible to the consumer before the purchase.</p>	Pass



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Section	Test Method/Requirement	Test result
6.3	<b>Safety marking and user instructions</b>	--
6.3.1	<b>General</b> The basic safety marking shall be attached to all ladders and ladder parts which can be used separately as an easily viewed symbol. The marking to indicate the top most rung/step that shall be used for standing on, shall be placed: — on the stile of the ladder adjacent to or on the last /allowed; or — on the first /not allowed rung/step; or — on the label for safety marking.	Pass
6.3.2.1	<b>Basic safety signs</b> The geometric shape of basic safety signs shall be in accordance with ISO 3864-1, ISO 3864-3 and be based upon the EN ISO 7010 template for safety signs with a minimum size <i>d</i> and <i>h</i> of 15 mm (see Figure 1).	Pass
6.3.2.2	<b>Supplementary safety information symbols</b> The supplementary safety information symbols are meant to instruct the user of a ladder about what is necessary and what is not allowed for a safe use of a ladder in order to avoid accidents e.g. by falling from the ladder. "Necessary" is indicated by a green tick and "Not allowed" is indicated by a red X (see examples in Figure 2). Compared to the basic safety signs according to 6.3.2.1 supplementary safety information symbols may include numbers, letters and more detailed (finer) symbols. The minimum height <i>h</i> of supplementary safety information symbols is 15 mm.	Pass
6.3.3	<b>Basic safety marking and user instructions for all ladders</b> Table 1 shows the minimum requirements for safety marking, user instructions and the mandatory symbols for all ladders.	Pass
6.3.4	<b>Leaning ladders</b> Table 2 shows in addition to the basic requirements (see 6.3.3) the minimum requirements for safety marking, user instructions and the mandatory symbols for leaning ladders.	Pass
6.3.5	<b>Standing ladders</b> Table 3 shows in addition to the basic requirements (see 6.3.3) the minimum requirements for safety marking, user instructions and the mandatory symbols for standing ladders.	Pass
6.3.6	<b>Combination ladders</b> Where a combination ladder is designed to be used as a leaning ladder, the safety marking and user instructions shall comply with the requirements of 6.3.4. Where a combination ladder is designed to be used as a standing ladder, the safety marking and user instructions shall comply with 6.3.5. Table 4 shows in addition to the requirements of 6.3.3 and 6.3.4 and/or 6.3.5 where relevant, the minimum requirements for safety marking, user instructions and the mandatory symbols for combination ladders.	Pass
6.3.7	<b>Extending ladders</b> Table 5 shows in addition to the requirements of 6.3.3 and 6.3.4 the minimum requirements for safety marking, user instructions and the mandatory symbols for extending ladders.	Pass



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<p>6.3.8</p>	<p><b>Single or multi-hinge joint ladders</b>          Where a single or multi-hinge joint ladder is designed to be used as a leaning ladder, the safety marking and user instructions shall comply with the requirements of 6.3.4.          Where a single or multi-hinge joint ladder is designed to be used as a standing ladder, the safety marking and user instructions shall comply with 6.3.5.          Table 6 shows in addition to the requirements of 6.3.3 and 6.3.4 and/or 6.3.5 and 6.3.7 where relevant, the minimum requirements for safety marking, user instructions and the mandatory symbols for single or multi-hinge joint ladders.</p>	<p>NA</p>
<p>6.3.9</p>	<p><b>Telescopic ladders</b>          Where a telescopic ladder is designed to be used as a leaning ladder, the safety marking and user instructions shall comply with the requirements of 6.3.4.          Where a telescopic ladder is designed to be used as a standing ladder, the safety marking and user instructions shall comply with 6.3.5.          Table 7 shows in addition to the requirements of 6.3.3 and 6.3.4 and/or 6.3.5 where relevant, the minimum requirements for safety marking, user instructions and the mandatory symbols for telescopic ladders.</p>	<p>NA</p>
<p>6.3.10</p>	<p><b>Mobile ladders with platform</b>          Table 8 shows in addition to the basic requirements (see 6.3.3) the additional requirements for safety marking, user instructions and the mandatory symbols for mobile ladders with platform.</p>	<p>NA</p>

**Remark:**

- 1.NA = Not applicable.
- 2.Only the soft copy of marking and user instructions were assessed.



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Sample as received

Sample as received

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\*\*\*End of Report\*\*\*



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