

TEST REPORT

No. : NJIN2308002131ML01_EN

Date : 2023-09-26

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CUSTOMER NAME: NANJING EK METALWORK CO., LTD
ADDRESS: NO.23 YONGNING ROAD, LUHE DISTRICT, NANJING CITY. CHINA

Chemical Composition Analysis and Tensile Test in this test report were transferred from test report No.: NJIN2308002131ML02_EN dated: 2023-08-31.

Sample Name : Scaffolding Steel Board-EK Scaffold Steel Plank
Product Specification : 225*38*1.55*2000mm
Material and Mark : Q195

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 : Chemical Composition Analysis, Tensile Test,
Uniformly Distributed Service Load,
Concentrated Load on Area 200mm × 200mm,
Concentrated Load on Area 500mm × 500mm

Date of Receipt : 2023-08-16

Testing Period : 2023-08-16 ~ 2023-09-26

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. Nanjing Branch.

Steven Zhu
朱宇

Steven Zhu
Authorized signatory



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1. Chemical Composition Analysis

Element	Test Method	Result 001 (%)
C	GB/T 4336-2016/XG1-2017	0.07
Si	GB/T 4336-2016/XG1-2017	0.05
Mn	GB/T 4336-2016/XG1-2017	0.28
P	GB/T 4336-2016/XG1-2017	0.019
S	GB/T 4336-2016/XG1-2017	0.016

2. Tensile Test

Test Method: GB/T 228.1-2021

Test Rate Control: A224

Test item	Specimen type	Tensile strength (R_m) (MPa)	Yield strength (R_{eH}) (MPa)	Elongation after fracture(A) $L_o=5.65\sqrt{S_0}$ (%)
Result-001	Rectangular specimen	440	397	30.5



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3. Uniformly Distributed Service Load

Test Method: With Reference to EN 12811-1:2003 Clause 6.2.2.2

Test Condition:

Platform unit: 2000mm×225mm (Length × Width)

Load class: Class 2

Test span: 1500mm

Test load: 1.5kN/m²

Test Result:

Test Item	Test Result	Client's Req.	Con.
Uniformly Distributed Service Load	The working area could support the uniformly distributed load	The working area shall be capable of supporting the uniformly distributed load.	Pass

4. Concentrated Load on Area 200mm × 200mm

Test Method: EN 12811-1:2003 Clause 6.2.2.3

Test Condition:

Platform unit: 2000mm×225mm (Length × Width)

Load class: Class 2

Test span: 1500mm

Test load: 1.0kN

Loading area: 200mm×200mm

Test Result:

Test Item	Test Result	Req. in EN 12811-1:2003 Clause 6.3.1	Con.
Concentrated Load on Area 200mm × 200mm	The platform unit could support the concentrated load on area 200mm × 200mm and the deflection at the center of span was 3.81mm.	The platform unit shall be capable of supporting the concentrated load on area 200mm × 200mm and the deflection at the center of span shall not exceed 15mm.	Pass

Note: When subjected to the concentrated loads specified in table 3, columns 3 and 4 the elastic deflection of any platform unit shall not exceed 1/100 of its span.



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5. Concentrated Load on Area 500mm × 500mm

Test Method: EN 12811-1:2003 Clause 6.2.2.3

Test Condition:

Platform unit: 2000mm×225mm (Length × Width)

Load class: Class 2

Test span: 1500mm

Test load: 0.675kN

Loading area: 500mm × 225mm

Test Result:

Test Item	Test Result	Req. in EN 12811-1:2003 Clause 6.3.1	Con.
Concentrated Load on Area 500mm × 500mm	The platform unit was capable of supporting the concentrated load on area 500mm × 500mm and the deflection at the center of span was 2.86mm.	The platform unit shall be capable of supporting the concentrated load on area 500mm × 500mm and the deflection at the center of span shall not exceed 15mm.	Pass

Note: When subjected to the concentrated loads specified in table 3, columns 3 and 4 the elastic deflection of any platform unit shall not exceed 1/100 of its span.

Test project/method was carried out by subcontractors.



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Original Sample Photo(s):



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



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