TEST REPORT

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SHIN2503000511CM03
Verification:
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No. : SHIN2503000511CM03_EN

Date : 2025-04-02

CUSTOMER NAME: NANJING EK METALWORK CO., LTD

ADDRESS: NO.2 GAOXIONG ROAD, LUHE DISTRICT, NANJING CITY, CHINA.

Sample Name : DROP FORGED GIRDER COUPLER

Material : Ø48.3

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 : 2025-03-13

Testing Period : 2025-03-13 ~ 2025-04-02

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

EK Scaffolding

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Strength Test	AS/NZS 1576.2:2016 Clause 4.7 & Appendix L	See Result	Pass
2	Slip Test Through Flange Clamps	AS/NZS 1576.2:2016 Clause 4.7 & Appendix M	See Result	Pass
3	Slip Test of Flange Clamps along a Flange	AS/NZS 1576.2:2016 Clause 4.7 & Appendix N	See Result	Pass

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

Original Sample Photo(s):

	
View 1	View 2

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TEST REPORT

1. Test Item: Strength Test

Test Method: AS/NZS 1576.2:2016 Clause 4.7 & Appendix L

Test Condition:

Specimen: Flange clamp, 12pcs

Test Results:

Test Item	Test Result	Requirement in AS/NZS 1576.2:2016 Clause 4.7	Conclusion
Strength Test	P=30.0kN, neither flange clamp showed any permanent set	P=30.0kN, neither flange clamp shall show any permanent set	Pass

Note:

1. Specification of tube for test: Steel tube of Φ48.3mm ×4.0mm (wall thickness)
2. Please see Annex A for details of test results.

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Annex A Detail of test results

Test Item	Strength Test
Requirement	P=30.0kN, neither flange clamp shall show any permanent set.
Test results / Specimen No.	—
1, 2	Neither clamp showed any permanent set.
3, 4	Neither clamp showed any permanent set.
5, 6	Neither clamp showed any permanent set.
7, 8	Neither clamp showed any permanent set.
9, 10	Neither clamp showed any permanent set.
11, 12	Neither clamp showed any permanent set.
Conclusion	Pass

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TEST REPORT

2. Test Item: Slip Test Through Flange Clamps

Test Method: AS/NZS 1576.2:2016 Clause 4.7 & Appendix M

Test Condition:

Specimen: Flange clamp, 12pcs

Test Results:

Test Item	Test Result	Requirement in AS/NZS 1576.2:2016 Clause 4.7	Conclusion
Slip Test Through Flange Clamps	P=12.5kN, Slippage<6mm	P=12.5kN, Slippage ≤ 6mm	Pass

Note:

1. Specification of tube for test: Steel tube of Φ48.3mm ×4.0mm (wall thickness)
2. Please see Annex B for details of test results.

Annex B Detail of test results

Test Item	Slip Test Through Flange Clamps
Requirement	P=12.5kN, Slippage ≤ 6mm
Test results / Sample No.	Slippage (mm)
13, 14	0.02
15, 16	0.01
17, 18	0.03
19, 20	0.02
21, 22	0.04
23, 24	0.02
Conclusion	Pass

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3. Test Item: Slip Test of Flange Clamps along a Flange

Test Method: AS/NZS 1576.2:2016 Clause 4.7 & Appendix N

Test Condition:

Specimen: Flange clamp, 12pcs

Test Results:

Test Item	Test Result	Requirement in AS/NZS 1576.2:2016 Clause 4.7	Conclusion
Slip test of Flange Clamps along a Flange	P=12.5kN, Slippage<6mm	P=12.5kN, Slippage ≤ 6mm	Pass

Note:

1. Specification of tube for test: Steel tube of Φ48.3mm ×4.0mm (wall thickness)
2. Please see Annex C for details of test results.

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检验检测专用章 Inspection & Testing Services

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Commercial Construction Material Laboratory

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Annex C Detail of test results

Test Item	Slip test of Flange Clamps along a Flange
Requirement	P=12.5kN, Slippage ≤ 6mm
Test results / Sample No.	Slippage (mm)
25	0.58
26	0.62
27	0.49
28	0.41
29	0.67
30	0.61
31	0.53
32	0.51
33	0.67
34	0.53
35	0.48
36	0.56
Conclusion	Pass

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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.

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********

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