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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 1 of 11

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SHIN2510002641CM02
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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 : RIGHT-ANGLE COUPLER CLASS B
Product Specification : 48.3mm
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 ~ 2025-10-29
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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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 2 of 11

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Slipping Force	EN 74-1:2022+A1:2025 Clause 7.2.1	See Result	Pass
2	Failure Force	EN 74-1:2022+A1:2025 Clause 7.2.2	See Result	Pass
3	Pull-apart Force	EN 74-1:2022+A1:2025 Clause 7.3	See Result	Pass
4	Cruciform Bending Stiffness and Cruciform Bending Moment	EN 74-1:2022+A1:2025 Clause 7.4.1	See Result	Pass
5	Rotational Moment and Stiffness	EN 74-1:2022+A1:2025 Clause 7.4.2	See Result	Pass
6	Indentation	EN 74-1:2022+A1:2025 Clause 7.5	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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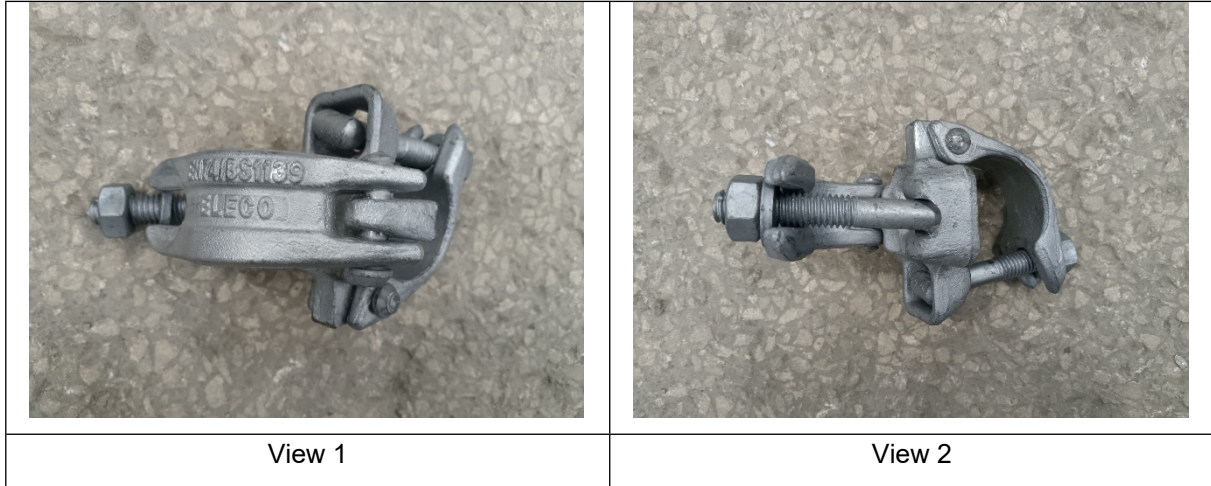
TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 3 of 11

Original Sample Photo(s):



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 4 of 11

1. Test Item: Slipping Force

Test Method: EN 74-1:2022+A1:2025 Clause 7.2.1

Test Condition:

Specimen: Right angle coupler, Class B, 10pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022+A1:2025 Table 8	Conclusion
Slipping Force	$\Delta_1 \leq 7\text{mm}$, $F_{s,5\%} = 15.3\text{kN}$	$\Delta_1 \leq 7\text{mm}$, $F_{s,5\%} \geq 10.0\text{kN}$	Pass
	$1\text{mm} \leq \Delta_2 \leq 2\text{mm}$, $F_{s,5\%} = 15.7\text{kN}$	$1\text{mm} \leq \Delta_2 \leq 2\text{mm}$, $F_{s,5\%} \geq 15.0\text{kN}$	

Note:

- 1) $F_{f,5\%}$: the 5% quantile for the 75% level of confidence.
- 2) Specification of tube for slipping force: Steel tube of $\Phi 48.3\text{mm} \times 3.2\text{mm}$ (wall thickness)
- 3) Please see Annex A for details of test results.



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 5 of 11

Annex A Details of Test Results

Specimen No.	F_s (kN, $\Delta_1=7\text{mm}$)	F_s (kN, $1\text{mm}\leq\Delta_2\leq2\text{mm}$)
1	17.42	17.49
2	19.21	19.24
3	18.08	18.72
4	15.86	16.19
5	17.54	18.33
6	16.33	16.52
7	16.81	17.08
8	17.45	17.93
9	17.32	17.85
10	16.47	16.92
$F_{s,5\%}$	15.3	15.7



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 6 of 11

2. Test Item: Failure Force

Test Method: EN 74-1:2022+A1:2025 Clause 7.2.2

Test Condition:

Specimen: Right angle coupler, Class B, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022+A1:2025 Table 8	Conclusion
Failure Force	$F_{f,5\%}/\gamma R2=53.8\text{kN}$	$F_{f,5\%}/\gamma R2 \geq 30.0\text{kN}$	Pass

Note:

- 1) $F_{f,5\%}$: the 5% quantile for the 75% level of confidence.
- 2) $\gamma R2=1.25$ according to EN 74-1.
- 3) Specification of steel bar for failure force: Steel bar of $\Phi 48.3\text{mm}$.
- 4) Please see Annex B for details of test results.

Annex B Details of Test Results

Specimen No.	F_f (kN)
11	68.59
12	68.14
13	69.82
14	68.61
15	69.03
$F_{f,5\%}/\gamma R2$	53.8



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 7 of 11

3. Test Item: Pull-apart Force

Test Method: EN 74-1:2022+A1:2025 Clause 7.3

Test Condition:

Specimen: Right angle coupler, Class B, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022+A1:2025 Table 8	Conclusion
Pull-apart Force	$F_{p,5\%}/\gamma R2=47.7\text{kN}$	$F_{p,5\%}/\gamma R2 \geq 30.0\text{kN}$	Pass

Note:

- 1) $F_{p,5\%}$: the 5% quantile for the 75% level of confidence.
- 2) $\gamma R2=1.25$ according to EN 74-1.
- 3) Specification of steel bar for pull-apart force: steel bar of $\Phi 48.3\text{mm}$.
- 4) Please see Annex C for details of test results.

Annex C Details of Test Results

Specimen No.	F_P (kN)
16	61.58
17	61.31
18	60.44
19	60.82
20	60.35
$F_{p,5\%}/\gamma R2$	47.7



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 8 of 11

4. Test Item: Cruciform Bending Stiffness and Cruciform Bending Ultimate Moment

Test Method: EN 74-1:2022+A1:2025 Clause 7.4.1

Test Condition:

Specimen: Right angle coupler, Class B, 10pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022+A1:2025 Table 8	Conclusion
Cruciform Bending Stiffness and Cruciform Bending Ultimate Moment	$M_B/1.65=0.48\text{kNm}$, $C_1=34.8\text{kNm/rad}$	$M_B/1.65=0.48\text{kNm}$, $C_1\geq 15.0\text{kNm/rad}$	Pass
	$M_B=0.8\text{kNm}$, $C_2=6.2\text{kNm/rad}$	$M_B=0.8\text{kNm}$, $C_2\geq 6.0\text{kNm/rad}$	
	$M_{ult,5\%}=1.7\text{kNm}$	$M_{ult,5\%}\geq 1.6\text{kNm}$	

Note:

- 1) $M_{ult,5\%}$: the 5% quantile for the 75% level of confidence.
- 2) Specification of tube for cruciform bending stiffness and cruciform bending ultimate moment: Steel tube of $\Phi 48.3\text{mm}\times 3.2\text{mm}$ (wall thickness).
Specification of steel bar for cruciform bending stiffness and cruciform bending ultimate moment: Steel bar of $\Phi 48.3\text{mm}$.
- 3) Please see Annex D for details of test results.

Annex D Details of Test Results

Sample No.	C_1 (kNm/rad, $M_B/1.65=\pm 0.48\text{kNm}$)	C_2^+ (kNm/rad, $M_B=0.8\text{kNm}$)	C_2^- (kNm/rad, $M_B=-0.8\text{kNm}$)	M_{ult} (kNm)
21	37.64	4.78	-	1.74
22	34.93	6.17	-	1.73
23	38.07	5.64	-	1.74
24	34.86	4.60	-	1.75



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 9 of 11

25	36.65	6.26	-	1.74
26	29.41	-	6.47	1.71
27	35.98	-	8.67	1.72
28	38.29	-	7.66	1.71
29	29.68	-	6.25	1.70
30	35.18	-	8.45	1.71
-	$C_1=34.8$	$C_2=6.2$		$M_{ult,5\%}=1.7$



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 10 of 11

5. Test Item: Rotational Moment and Stiffness

Test Method: EN 74-1:2022+A1:2025 Clause 7.4.2

Test Condition:

Specimen: Right angle coupler, Class B, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022+A1:2025 Table 8	Conclusion
Rotational Moment and Stiffness	$M_T = \pm 0.13 \text{ kNm}$, $C_\phi = 52.9 \text{ kNm/rad}$	$M_T = \pm 0.13 \text{ kNm}$, $C_\phi \geq 7.5 \text{ kNm/rad}$	Pass
	$1^\circ \leq \theta \leq 2^\circ$, $M_{T,5\%} = 0.35 \text{ kNm}$	$1^\circ \leq \theta \leq 2^\circ$, $M_{T,5\%} \geq 0.13 \text{ kNm}$	

Note:

- 1) $M_{T,5\%}$: the 5% quantile for the 75% level of confidence.
- 2) Specification of tube for rotational moment and the stiffness: Steel tube of $\Phi 48.3 \text{ mm} \times 3.2 \text{ mm}$ (wall thickness).
- 3) Please see Annex E for details of test results.

Annex E Details of Test Results

Sample No.	$C_\phi (\text{kNm/rad}, M_T = \pm 0.13 \text{ kNm})$	$M_T (\text{kNm}, 1^\circ \leq \theta \leq 2^\circ)$
31	53.0	0.423
32	53.6	0.387
33	51.5	0.463
34	55.5	0.451
35	51.2	0.402
-	$C_\phi = 52.9$	$M_{T,5\%} = 0.35$



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TEST REPORT

No. : SHIN2510002641CM02_EN

Date : 2025-10-29

Page: 11 of 11

6. Test Item: Indentation

Test Method: EN 74-1:2022+A1:2025 Clause 7.5

Test Condition:

Specimen: Right angle coupler, Class B, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022+A1:2025 Table 8	Conclusion
Indentation	F=10kN, $\Delta < 1.5\text{mm}$	F=10kN, $\Delta \leq 1.5\text{mm}$	Pass

Note:

- 1) Specification of tube for indentation: Steel tube of $\Phi 48.3\text{mm} \times 2.7\text{mm}$ (wall thickness).
- 2) Please see Annex F for details of test results.

Annex F Details of Test Results

Specimen No.	Δ_{10} (mm, F=10kN)
36	0.28
37	0.35
38	0.21
39	0.32
40	0.27

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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.

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