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TEST REPORT

No. : SHIN2406001428CM01_EN

Date : 2024-07-08

Page: 1 of 7

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SHIN2406001428CM01
Verification:
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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 : DOUBLE COUPLER
Product Specification : 48.3MM
Manufacturer : ANHUI HAODING METAL PRODUCT LIMITED COMPANY
Buyer : Sinoma (Handan) Construction Co., Ltd.

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 : 2024-06-19
Testing Period : 2024-06-19 ~ 2024-07-05
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..

王支援

王支援
Authorized signatory



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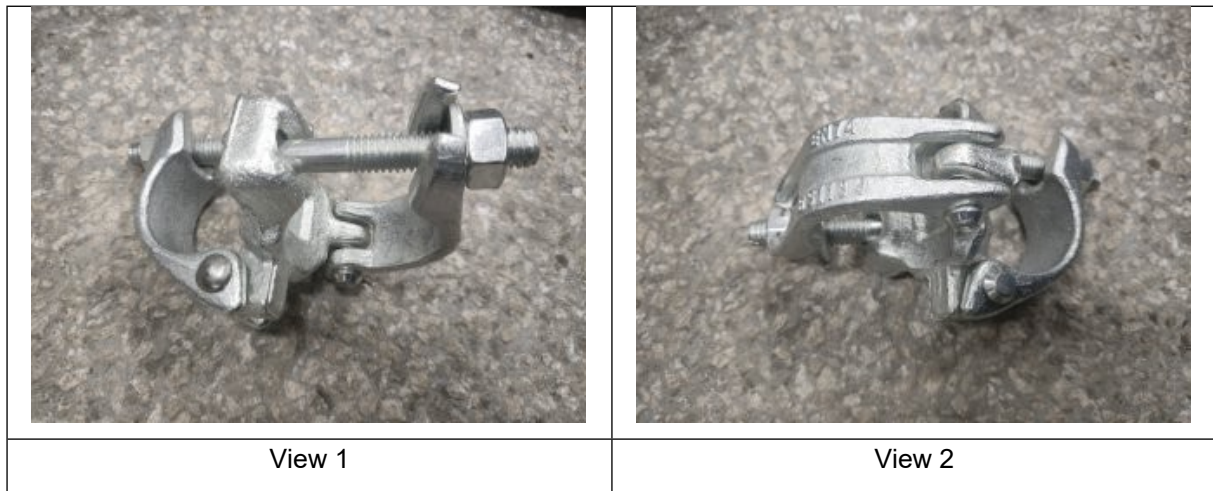
Page: 2 of 7

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Slipping Force	EN 74-1:2022 Clause 7.2.1	See Result	Pass
2	Failure Force	EN 74-1:2022 Clause 7.2.2	See Result	Pass
3	Pull-apart Force	EN 74-1:2022 Clause 7.3	See Result	Pass
4	Indentation	EN 74-1:2022 Clause 7.5	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):



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1. Test Item: Slipping Force

Test Method: EN 74-1:2022 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 Table 8	Conclusion
Slipping Force	$\Delta_1 \leq 7\text{mm}$, $F_{s,5\%} = 17.3\text{kN}$	$\Delta_1 \leq 7\text{mm}$, $F_{s,5\%} \geq 10.0\text{kN}$	Pass
	$1\text{mm} \leq \Delta_2 \leq 2\text{mm}$, $F_{s,5\%} = 16.0\text{kN}$	$1\text{mm} \leq \Delta_2 \leq 2\text{mm}$, $F_{s,5\%} \geq 15.0\text{kN}$	

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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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	21.58	21.75
2	23.73	23.95
3	20.36	19.36
4	24.57	24.44
5	19.04	18.01
6	20.96	20.11
7	19.18	18.73
8	19.80	18.76
9	19.15	18.09
10	22.91	22.94
$F_{s,5\%}$	17.3	16.0



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2. Test Item: Failure Force

Test Method: EN 74-1:2022 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 Table 8	Conclusion
Failure Force	$F_{f,5\%}/\gamma R2=50.7\text{kN}$	$F_{f,5\%}/\gamma R2 \geq 30.0\text{kN}$	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

Failure Force

Specimen No.	F_f (kN)
11	64.78
12	66.94
13	67.56
14	68.89
15	68.85
$F_{f,5\%}/\gamma R2$	50.7



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3. Test Item: Pull-apart Force

Test Method: EN 74-1:2022 Clause 7.3

Test Condition:

Specimen: Right angle coupler, Class B, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Pull-apart Force	$F_{p,5\%}/\gamma R2=43.9\text{kN}$	$F_{p,5\%}/\gamma R2 \geq 30.0\text{kN}$	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	58.13
17	61.70
18	58.30
19	57.35
20	58.71
$F_{p,5\%}/\gamma R2$	43.9



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4. Test Item: Indentation

Test Method: EN 74-1:2022 Clause 7.5

Test Condition:

Specimen: Right angle coupler, Class B, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 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 A for details of test results.

Annex A Details of Test Results

Specimen No.	Δ_{10} (mm, F=10kN)
21	0.05
22	0.06
23	0.04
24	0.05
25	0.07

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



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