

## TEST REPORT

No. : SHIN2406001428CM01\_EN

Date : 2024-07-08

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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

Authorized signatory



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## Summary of Results:

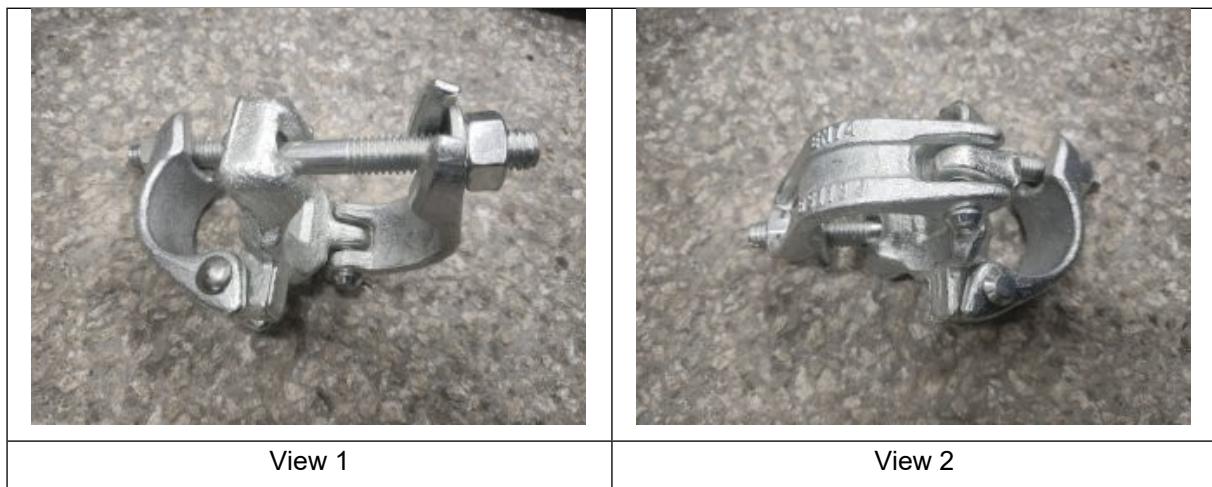
No.	Test Item	Test Method	Result	Conclusion
1	Slipping Force	EN 74-1:2022 Clause 7.2.1	See Result	Pass
2	Failure Force	EN 74-1:2022 Clause 7.2.2	See Result	Pass
3	Pull-apart Force	EN 74-1:2022 Clause 7.3	See Result	Pass
4	Indentation	EN 74-1:2022 Clause 7.5	See Result	Pass

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
	$1\text{mm} \leq \Delta_2 \leq 2\text{mm}$ , $F_{s,5\%} = 16.0\text{kN}$	$1\text{mm} \leq \Delta_2 \leq 2\text{mm}$ , $F_{s,5\%} \geq 15.0\text{kN}$	

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**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, $1\text{mm} \leq \Delta_2 \leq 2\text{mm}$ )
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.	$F_f (\text{kN})$
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.	$F_P (\text{kN})$
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	$F=10kN, \Delta < 1.5mm$	$F=10kN, \Delta \leq 1.5mm$	Pass

Note:

1) Specification of tube for indentation: Steel tube of  $\Phi 48.3mm \times 2.7mm$  (wall thickness).

2) Please see Annex A for details of test results.

### Annex A Details of Test Results

Specimen No.	$\Delta_{10}$ (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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