

TEST REPORT

No. : SHCCM131202650

Date : Jan. 03, 2014

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CORONET GROUP SUZHOU CO., LTD.
#1505 SIFC, SIP, SUZHOU, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : SWIVEL COUPLER
Sample Number : SHCCM131202650
Test Required : Please see the next page(s)
Test Method : EN 74-1:2005
Manufacturer : CORONET GROUP SUZHOU CO., LTD.
Material and Mark : Q235
Date of Receipt : Dec. 26, 2013
Test Period : Dec. 26, 2013 to Jan. 03, 2014
Test result(s) : For further details, please refer to the following page(s)

***** To be continued*****

Signed for SGS-CSTC Standards
Technical Services (Shanghai) Co., Ltd.

Sally Xie

Sally Xie

Authorized signatory

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SHCCM 005435

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Test Conducted:

EN 74-1:2005 Couplers, spigot pins and baseplates for use in falsework and scaffolds – Part 1: Couplers for tubes – Requirements and test procedures

Test Result:

Test Clause	Test Item	Test Requirement (Swivel coupler, Class B)	Test Result	Verdict
7.2.1	Slipping force	$\Delta_1 \leq 7\text{mm}$, $F_{s,5\%} \geq 10.0\text{kN}$ and $1\text{mm} \leq \Delta_2 \leq 2\text{mm}$, $F_{s,5\%} \geq 15.0\text{kN}$	$\Delta_1 = 7\text{mm}$, $F_{s,5\%} = 11.1\text{kN}$; $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$	Pass
7.2.2	Failure force	$F_{f,5\%}/\gamma R2 \geq 20.0\text{kN}$	$F_{f,5\%}/\gamma R2 = 27.2\text{kN}$	Pass
7.5	Indentation	$F = 6.67\text{kN}$, $\Delta_{10} \leq 1.5\text{mm}$	$F = 6.67\text{kN}$, $\Delta_{10} < 1.5\text{mm}$	Pass

Note:

1. $F_{s,5\%}$, $F_{f,5\%}$: The 5% quantile for the 75% level of confidence.
2. $\gamma R2 = 1.25$ according to EN 74-1.
3. Please see Annex A for details of test results.

***** To be continued*****

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Annex A Detailed test results

1. Slipping force

Specimens	F_s (kN, $\Delta_1=7\text{mm}$)	F_s (kN, $1\text{mm}\leq\Delta_2\leq 2\text{mm}$)
No.1	12.50	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.2	11.27	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.3	12.74	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.4	12.82	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.5	11.30	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.6	12.61	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.7	12.32	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.8	13.12	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.9	12.29	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
No.10	12.13	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$
$F_{s,5\%}$	11.1	* $F_s = 30.0\text{kN}$, $\Delta_2 < 1\text{mm}$

*Note: In accordance with EN 74-1:2005, the test can be ended when the test load reached twice the specified F_s given in Table 8 of EN 74-1:2005.

2. Failure force

Specimens	F_f (kN)
No.1	42.05
No.2	40.28
No.3	44.80
No.4	36.77
No.5	44.59
$F_{f,5\%}/\gamma R_2$	27.2

***** To be continued *****

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3. Indentation

Specimens	Δ_{10} (mm, F=6.67kN)
No.1	0.13
No.2	0.07
No.3	0.17
No.4	0.15
No.5	0.09

Statement: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Sample photo:



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

Coronet Group