

TEST REPORT

No. : SHIN161003740CCM

Date : Nov. 03, 2016

Page: 1 of 5

ANHUI HAODING METAL PRODUCT LIMITED COMPANY

NO.32, GAOXIN ROAD, CHAHE ECONOMIC DEVELOPMENT ZONE, LAI'AN COUNTY, CHUZHOU CITY,
ANHUI PROVINCE, CHINA

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

Sample Name : I-BOLT SWIVEL CLAMP
Sample Number : SHIN161003740CCM
Test Required : Please see the next page(s)
Test Standard : ANSI/SSFI SC100-5/05
Buyer : AT-PAC
Manufacturer : Supplier 30
Date of Receipt : Oct. 24, 2016
Test Period : Oct. 24, 2016 to Nov. 03, 2016
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.

Joyce Li
检验检测专用章
Joyce Li 09
Authorized signatory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SHCCM 023127

www.sgsgroup.com.cn

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21) 61196300 f(86-21) 61191853/68183920
中国 · 上海 · 浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 e sgs.china@sgs.com

TEST REPORT

No. : SHIN161003740CCM

Date : Nov. 03, 2016

Page: 2 of 5

Test Conducted:

ANSI/SSFI SC100-5/05 Standards for Testing and Rating Scaffold Assemblies and Components

Test Results:

Manufacturer: supplier 30					Model # / Product Identification: /			
Test Date: 2016.11.2		Test #: 1~12			Test Location: SGS CCM Lab		Factor of Safety (FS):/	
Swivel Coupler	Test 1	Test 2	Test 3	Test 4 (if needed)	Test 5 (if needed)	Average	Maximum Variation	Rating (Avg/FS)
Slip Load (N)	20697	25517	22254	22258	/	22682	12.5%	/
Failure Mode	Ultimate load was reached			/		NA	NA	NA
Failure Load (N) [Strength test]	55866	54882	60800	/	/	57183	6.3%	/
Failure Mode	The center rivets were broken.			/	/	NA	NA	NA
Center Rivet load (kN)	20810	17809	22318	24594(invalid)	20356	20323	12.4%	/
Failure Mode	The center rivets were broken. According to clause 4.2.3.3, the test 4 was invalid.					NA	NA	NA
Remark	Manufacturer's recommended torque:54Nm Manufacturer's recommended tube specification: steel tube of Φ48.3mm							

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

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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHCCM 023128



No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21)61196300 f(86-21)61191853/68183920 www.sgsgroup.com.cn
SGS-CSTO ShangHai Technical Services (Shanghai) Co., Ltd.
Testing Center Certified by SGS International Laboratory
中国 · 上海 · 浦东康桥东路1159弄69号 邮编: 201319 t(86-21)61196300 f(86-21)61191853/68183920 e sgs.china@sgs.com

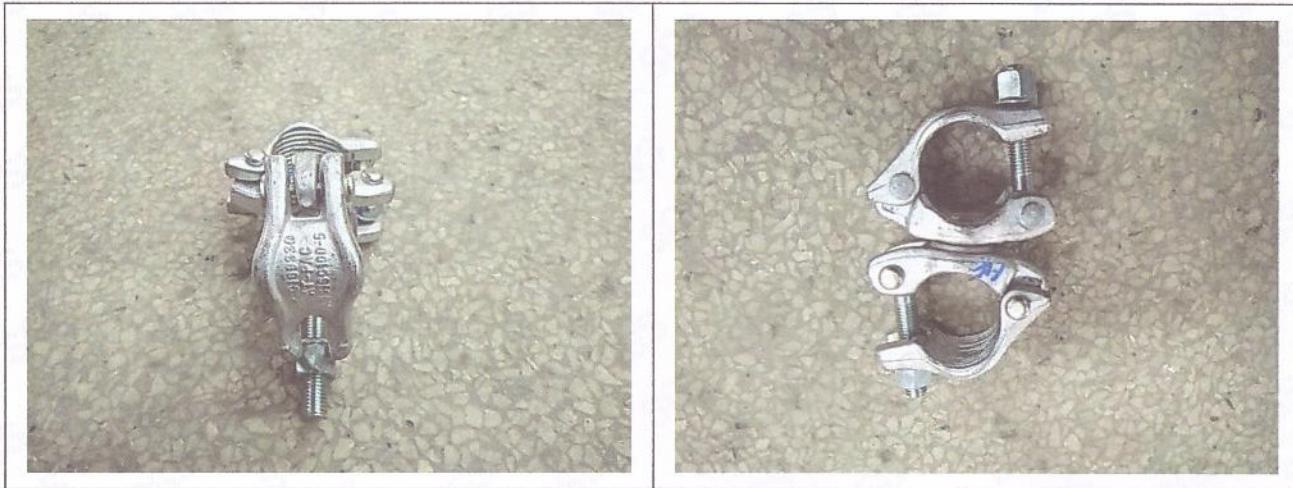
TEST REPORT

No. : SHIN161003740CCM

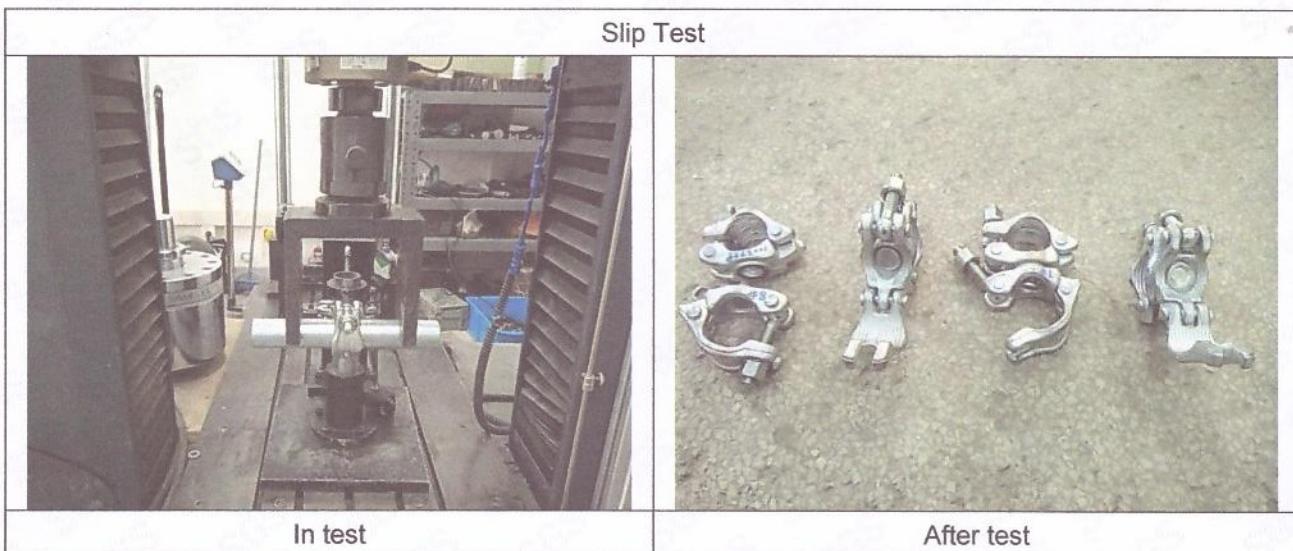
Date : Nov. 03, 2016

Page: 3 of 5

Sample photos:



Test photos:



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SGS-CSTC ShangHai Technical Services Co., Ltd.
Testing Center

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 www.sgsgroup.com.cn
中国 · 上海 · 浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 e sgs.china@sgs.com

SHCCM 023129

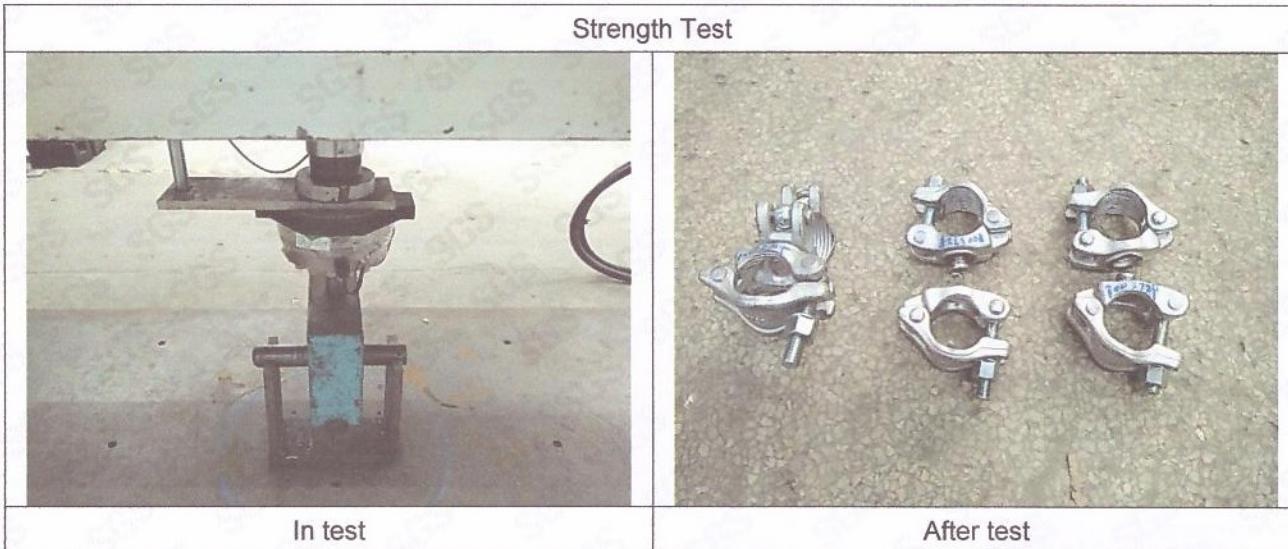
TEST REPORT

No. : SHIN161003740CCM

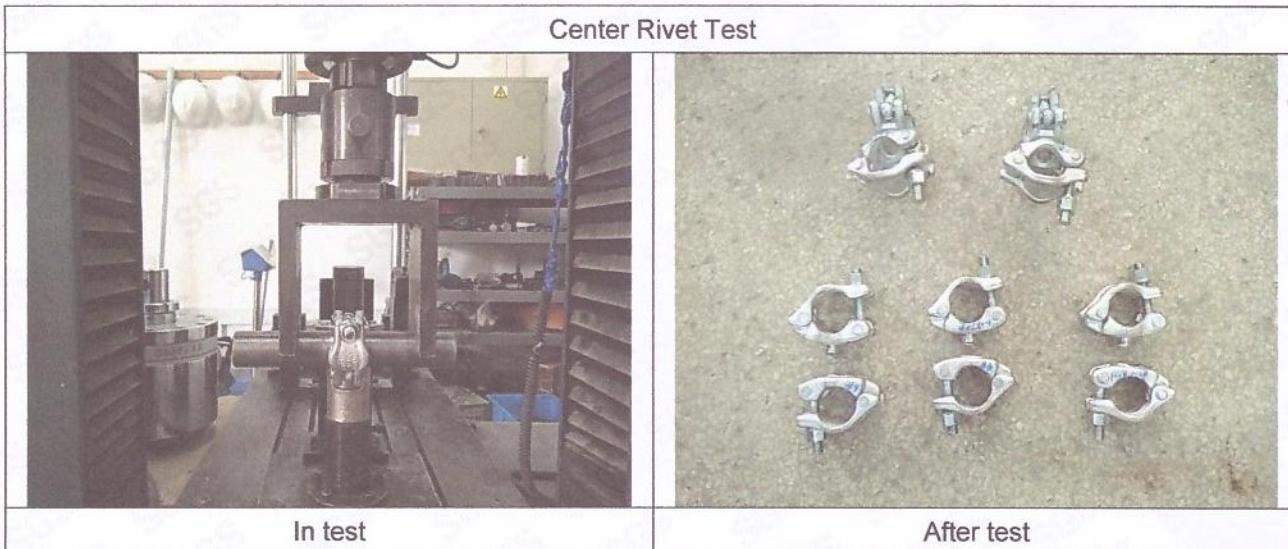
Date : Nov. 03, 2016

Page: 4 of 5

Strength Test



Center Rivet Test



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SGS-CSTO Materials Technical Services (Shanghai) Co., Ltd.
Testing Center/Commodity Testing Services/Chemical Laboratory

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 www.sgsgroup.com.cn
中国 · 上海 · 浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 e sgs.china@sgs.com

SHCCM 023130

TEST REPORT

No. : SHIN161003740CCM

Date : Nov. 03, 2016

Page: 5 of 5

Certification

I certify that I am a qualified engineer or a representative of an independent testing laboratory as defined in the SC100 standard. I also certify that the above described tests were performed in accordance with the applicable provisions of the Methods for Testing and Rating Tube & Coupler scaffold components, as published by the Scaffolding, Shoring & Forming Institute in the SSFI SC100 standard, and that the stated results and values are accurate.

King Chen SGS-CSTC Standards Technical Services (Shanghai)Co., Ltd Nov. 02, 2016
(Name) (Signature) (Company) (Date)

The 3#. Building, No.69, KangQiao Industrial Park, Block1159, KangQiao East Road, Pudong District,
Shanghai, China, 201319 021-61196479 King.chen@sgs.com
(Address/city/state/zip) (Phone) (E-mail)

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHCCM 023131

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 www.sgsgroup.com.cn
SGS-CSTC Standards Technical Services (Shanghai)Co., Ltd
Testing Center, China, Shanghai, Shanghai Laboratory
中国 · 上海 · 浦东康桥东路1159弄69号 邮编:201319 t(86-21) 61196300 f(86-21) 61191853/68183920 e sgs.china@sgs.com