SGS

TEST REPORT

No. : SHIN160702712CCM-01
Date : Aug. 17, 2016
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CHANGSHA XIANGJIA METAL MATERIAL TRADING CO., LTD.
ROOM 1605-1609, MINGCHENG INTERNATIONAL BUILDING, NO.46 RENMIN EAST ROAD, CHANGSHA, HUNAN, CHINA

This Report supersedes the Report No. SHIN160702712CCM dated Aug.15, 2016 issued by SGS, original report will be invalid from today.
The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	:	JACK BASE
Sample Number	:	SHIN160702712CCM
Test Required	:	Please see the next page(s)
Test Standard	:	AS/NZS 1576.2:2009
Product specification	:	38mm*600mm/150mm*150mm*5mm hollow
Material and Mark	:	Q235
Date of Receipt	:	Jul. 25, 2016
Test Period	:	Jul. 25, 2016 to Aug. 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.

Tiffany Liu
Authorized signatory

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Test conducted: AS/NZS 1576.2:2009 Scaffolding Part 2: Couplers and accessories Appendix H test for adjustable leg, adjustable baseplate and adjustable swivel baseplate

Sample dimension: ①38mmx600mm(height) / baseplate 150mm(length)x150mm(width)x5mm(thickness)

6.1. Test procedure:

(a) Set the nut of the adjustable leg or baseplate to the maximum working extension of the shank below the nut. Check the straightness of the shank in three positions 45° apart and record any deviation.
(b) Fit the tube over the adjustable leg or baseplate and place the assembly on the tapered plate between the testing machine platens.
(c) Apply a force of 60kN progressively over a period of 3 min and hold it for a period of 15min.
(d) Remove the force.
(e) Measure and record the straightness of the shank in the same positions as before the test.
(f) Determine and record the ease with which the adjusting nut can be turned by hand for the full depth of the nut, downwards from the test position and returned upwards to the test position. If it is not possible to turn the nut, freely by hand, this is to be regarded as failure.
(g) If the adjustable base passes this load test, re-test the adjustable base with an increasing load until failure. This load is to be recorded as the ultimate failing load.

6.2. Requirement:

When tested in accordance with Appendix H at a load of 60kN, an adjustable leg or adjustable baseplate shall not have a change in straightness of the shank exceeding 2mm and it shall be possible to turn freely by hand the nut downwards from the test position

A minimum of three components shall be tested as follow:

a. Components that have passed the 60kN test load shall be tested to failure at which load the component is unable to support an increase in load or there is a slip between the thread of the nut and thread of the stem. This load shall be ultimate load.

b. A component whose ultimate test load deviates from the mean result by more than 10% shall be discarded and an additional component shall be tested.

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

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c. The test result shall satisfy the following:

Strength = (∑P/n)/2.5 ≥30kN

Where

P= individual ultimate load, in kilonewtons

n= number of tests

NOTE: This is not the working load limit (WLL) of adjustable legs or adjustable baseplates.

Test result:

Sample No.	Test result of each sample after 60kN applied for 15min	Conclusion
1#	1. The change in straightness of the shank: 031mm, 0.22mm, 0.37mm. 2. Adjustable nut can be turned freely by hand downwards from the test position, and returned upwards to the test position.	Pass
2#	1. The change in straightness of the shank: 0.26mm, 0.38mm, 0. 33mm. 2. Adjustable nut can be turned freely by hand downwards from the test position, and returned upwards to the test position.	
3#	1. The change in straightness of the shank: 0.19mm, 0.28mm, 0.13mm. 2. Adjustable nut can be turned freely by hand the nut downwards from the test position.	
4#	1. The change in straightness of the shank: 0.24mm, 0.38mm, 0.26mm. 2. Adjustable nut can be turned freely by hand the nut downwards from the test position.	

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

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Sample No.	Failure mode	Ultimate load	Strength	Conclusion
1#	The shank is bended	95.20 kN Note1	/	/
2#	The shank is bended	122.70 kN	51.49kN	Pass
3#	The shank is bended	133.01 kN		
4#	The shank is bended	130.50 kN		

Note1: This value was discarded since the test load deviated from the mean result by more than 10%.

Note2: The length from the top of the nut to the top of the shank is 300mm as per client's requirement.

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

Sample photos:

Before test

Typical deflection in ultimate load

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

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