

TEST REPORT

No. : SHIN2209017769CM

Date : Oct 12, 2022

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CUSTOMER NAME: RIZHAO FENGHUA SCAFFOLDINGS CO., LTD
ADDRESS: NO. 08, JINMING RD, JUFENG, LANSHAN, RIZHAO, SHANDONG, CHINA

Sample Name : FORMWORK PROP
Product Specification : 1520-2500; 54*3; 65*2.59mm
Product or Lot No. : RFH-D004
Manufacturer : RIZHAO FENGHUA SCAFFOLDINGS 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.

Test Required : Destructive Testing on Single Prop
SGS Ref. No. : QDIN2209004907CM
Ref. Standard : AS 3610:1995 Amendment NO.1 2003 Appendix A
Date of Receipt : Sep 26, 2022
Testing Start Date : Sep 26, 2022
Testing End Date : Oct 12, 2022
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
Service (Shanghai)Co., Ltd.

Ziven Wang

Ziven Wang
Authorized signatory



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Summary of Result(s):

No.	Test Item	Test Method	Result	Conclusion
1	Destructive Testing on Single Prop	AS 3610:1995 Amendment NO.1 2003 Appendix A	See Result	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo(s):

	
Minimum Extension	Maximum Extension



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Test Item: Destructive Testing on Single Prop

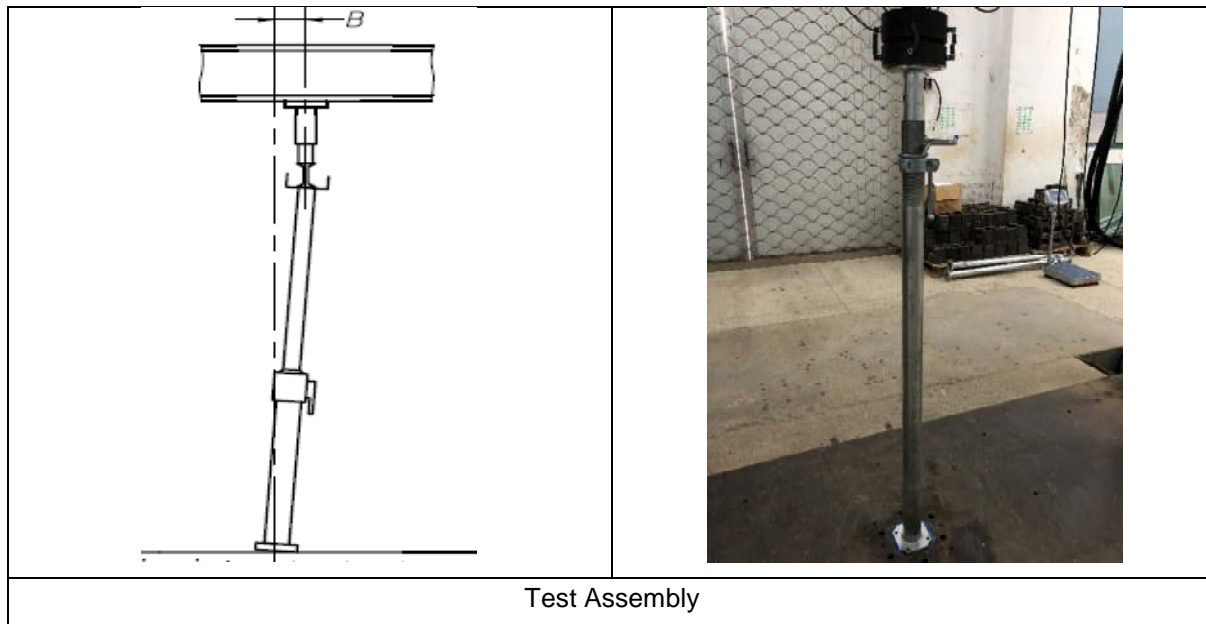
Test Method: AS 3610:1995 Amendment NO.1 2003 Appendix A

Specimen Description:

No.	Adjustable Height(mm)	Outer Tube(mm)	Inner Tube(mm)	Sample Weight(kg)	Height of the Test L(mm)
1	1520~2500	65.40	54.30	14.09	1520
					2500

Test Procedure:

1. Place the Adjustable steel prop on the steel plane, adjust the steel prop to test height specified by client.
2. Apply a compression load progressively on the prop, the eccentricity of load point L/200. The test assembly is considered to have failed when it is unable to carry the applied load or has exhibited unacceptable deformation. See the following drawing for details.
3. Record the failure load and the failure mode.



Test Assembly



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Test Result:

Specimen No.	Test Height (mm)	Maximum Load F(kN)	Failure Mode	Average Maximum Load F(kN)	Strength Limit State Load Capacity (ΦR_u , kN)	Maximum Working Load Capacity (kN)
1	1520	194.72	The top of the sample is deformed	191.97	119.98	79.99
2	1520	186.44	The top of the sample is deformed			
3	1520	194.76	The top of the sample is deformed			
4	2500	87.74	The sample latch is deformed	90.36	56.48	37.65
5	2500	87.11	The sample latch is deformed			
6	2500	96.23	The sample latch is deformed The middle of the sample is curved			

Note:

- Strength limit state load capacity per prop $\Phi R_u = \bar{F} / k_{skd}$.
- Coefficient of variation $V=0.15$, this value could be determined according to the table A2
- Maximum working load capacity = $\bar{F} / 1.5k_{skd}$, where
 $K_s=1.6$: Sample factor, this value could be determined by value of the coefficient of variation according to the table A1
 $K_d=1$: Modification factor for duration of load for steel product.



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Test Photo(s):

	
Minimum Extension - In Test	Typical Failure Mode of Minimum Extension - After Test
	
Maximum Extension - In Test	Typical Failure Mode of Maximum Extension - After Test

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



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