

## TEST REPORT

No. : SHIN2209017770CM

Date : Oct 12, 2022

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scan to see the report



SHIN2209017770CM

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

Sample Name : FORMWORK PROP  
Product Specification : 1720-3000; 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. : QDIN2209004908CM  
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):



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Test Item: Destructive Testing on Single Prop

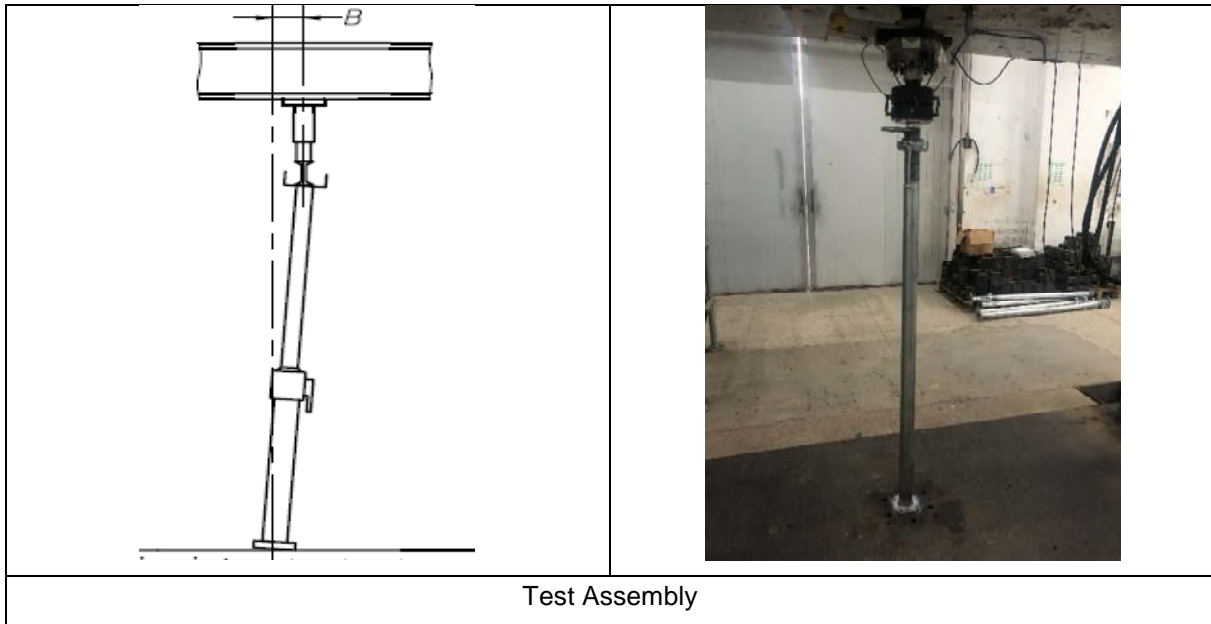
Test Method: AS 3610:1995 Amendment NO.1 2003 Appendix A

Specimen Description:

No.	Adjustable Height(mm)	Outer Tube(mm)	Inner Tube(mm)	Sample Weight(kg)	Height of the Test L(mm)
1	1720~3000	65.94	54.43	16.44	1720
					3000

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 ( $\Phi R_u$ ,kN)	Maximum Working Load Capacity (kN)
1	1720	276.04	The top of the sample is deformed	239.43	149.64	99.76
2	1720	217.74	The top of the sample is deformed			
3	1720	224.51	The top of the sample is deformed			
4	3000	94.48	The sample latch is deformed	81.71	51.07	34.05
5	3000	63.59	The sample latch is deformed			
6	3000	87.06	The sample latch is deformed The middle of the sample is curved			

Note:

- Strength limit state load capacity per prop  $\Phi R_u = \bar{F} / K_s K_d$ .
- Coefficient of variation  $V=0.15$ , this value could be determined according to the table A2
- Maximum working load capacity =  $\bar{F} / 1.5 K_s K_d$ , 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):

	
<p>Minimum Extension - In Test</p>	<p>Typical Failure Mode of Minimum Extension - After Test</p>
	
<p>Maximum Extension - In Test</p>	<p>No.4 - After Test</p>



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<p>No.5 - After Test</p>	<p>No.6 - After Test</p>

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



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