

TEST REPORT

No. : SHIN190501191CCM-01

Date : May, 20, 2019

Page: 1 of 7

CUSTOMER NAME: SUZHOU TECON CONSTRUCTION TECHNOLOGY CO., LTD.
ADDRESS: ROOM 1108-1109, BLOCK A, BUILDING 2, LEFO COMMERCIAL CENTER, WUZHONG DISTRICT, SUZHOU

This Report supersedes the Report No. SHIN190501191CCM dated: May. 17, 2019 issued by SGS, original report will be invalid from today.

Sample Name : TMP350
Product specification : 1950-3500mm
Material and Mark : Aluminium 6061-T6

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 : Failure Load Test
Test Method : With reference to EN 1065:1998 and clients' requirement
Date of Receipt : May. 05, 2019
Testing Start Date : May. 05, 2019
Testing End Date : May. 16, 2019
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
Services (Shanghai) Co., Ltd.

Joyce Li

Joyce Li
Authorized signatory



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center Committee Construction Material Laboratory

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TEST REPORT

No. : SHIN190501191CCM-01

Date : May. 20, 2019

Page: 2 of 7

Summary of Result(s):

No.	Test item	Test Method	Test Result	Conclusion
1	Failure Load Test 1	With reference to EN 1065:1998 and clients' requirement	See Result	/
2	Failure Load Test 2	With reference to EN 1065:1998 and clients' requirement	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 REPORT

No. : SHIN190501191CCM-01

Date : May. 20, 2019

Page: 3 of 7

1. Test item: Failure Load Test 1

Test method: With reference to EN 1065:1998 and clients' requirement

Test condition:

Inner tube: 86.76mm × 86.76mm

Outer tube: 100.50mm × 100.50mm

Adjust height: 1955mm~3519mm

Unit weight: 18.63kg, 1pc

Test procedure:

- 1) Place the aluminium prop on a steel plate with the inclined angle 1°, the prop shall be assembled to be tested at the height specified by client.
- 2) Apply an axial compression test load via a steel ball at the head of the prop with an eccentricity of 10mm.
- 3) The load shall be increased until the plastic deformation occurs or the test load cannot be increased usefully.
- 4) Record the failure load and the failure mode.

Test result:

Sample No.	Test height (mm)	Failure load (kN)	Failure mode
1	3500	99.1	The inner tube was bent.



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TEST REPORT

No. : SHIN190501191CCM-01

Date : May. 20, 2019

Page: 4 of 7

Test photos:



In test

After test

TECON 拓恒
& Scaffolding Engineering

TECON
Formwork & Scaffolding Engineering



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TEST REPORT

No. : SHIN190501191CCM-01

Date : May. 20, 2019

Page: 5 of 7

2. Test item: Failure Load Test 2

Test method: With reference to EN 1065:1998 and clients' requirement

Test condition:

Inner tube: 86.76mm × 86.76mm

Outer tube: 100.50mm × 100.50mm

Adjust height: 1955mm~3519mm

Unit weight: 18.63kg, 1pc

Test procedure:

- 1) Place the aluminium prop on a steel plate with the inclined angle 1°, the prop shall be assembled to be tested at each height specified by client(See Table 1).
- 2) Apply an axial compression test load via a steel ball at the head of the prop with an eccentricity of 10mm.
- 3) The load shall be increased until it reached to the values specified by the client (See Table 1), record the load and sample status at each height.
- 4) Continue to increase the load until plastic deformation occurs or the test load cannot be increased usefully at the height of 2.8m, record the failure load and the failure mode.

Table 1 Test sequence

Test sequence	Test height (m)	Test load (kN)
1	1.95	176
2	2.0	176
3	2.2	154
4	2.4	136
5	2.6	122
6	2.8	114
7	2.8	Failure load



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TEST REPORT

No. : SHIN190501191CCM-01

Date : May. 20, 2019

Page: 6 of 7

Test result:

Sample No.	Test height (m)	Test load (kN)	Test result
2	1.95	176	The sample was intact.
	2.0	176	The sample was intact.
	2.2	154	The sample was intact.
	2.4	136	The sample was intact.
	2.6	122	The sample was intact.
	2.8	114	The sample was intact.
	2.8	✓	When the load reached 161.4kN, the inner tube was bent.



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TEST REPORT

No. : SHIN190501191CCM-01

Date : May. 20, 2019

Page: 7 of 7

Test photos:



During test

After test

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

TECON 拓恒
& Scaffolding Engineering

TECON 拓恒
Formwork & Scaffolding En



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