

## TEST REPORT

No. : SHIN180702175CCM

Date : Aug. 02, 2018

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CUSTOMER NAME: RAPID ALUMINUM CO.,LTD  
ADDRESS: NO.107 WEST XIGANG ROAD, XISHAN DISTRICT, WUXI CITY,  
JIANGSU PROVINCE, CHINA

Sample Name : ALUMINUM MOBILE TOWER  
Product material : 6061  
Product specification : RAT07  
Size : W1350\*L2000\*H7000mm

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 : Please see the next page(s)  
Test Method : EN 1004:2004  
SGS Ref. No. : IN-SH-CP-5612-18062  
Date of Receipt : Jul. 18, 2018  
Testing Start Date : Jul. 18, 2018  
Testing End Date : Aug. 02, 2018  
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

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SHCCM 038857

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Test conducted: EN 1004:2004 Mobile access and working towers made of prefabricated elements –  
Materials, dimensions, design loads, safety and performance requirements

1. Test item: Loads on side protection

Test method: EN 1004:2004 Clause 8.3.2

Sample description:

Top guardrail (Intermediate guardrail):  $\Phi 50.82\text{mm} \times 2000\text{mm}$  (Longitudinal direction)

Top guardrail (Intermediate guardrail):  $\Phi 50.89\text{mm} \times 1355\text{mm}$  (Transverse direction)

Toe-board 1:  $1200\text{mm} \times 155\text{mm} \times 17.78\text{mm}$  (Length  $\times$  Width  $\times$  Height), span: 1083mm

Toe-board 2:  $2100\text{mm} \times 155\text{mm} \times 17.65\text{mm}$  (Length  $\times$  Width  $\times$  Height), span: 1954mm

Test result:

1) Downward load-1.25kN

	Specimen	Test result	Test requirement	Conclusion
Top Guardrail	Longitudinal direction	No failure	See table 5, line 2.1, any principal guardrail intermediate guardrail, regardless of its method of support, shall be able to resist a point load of 1.25 kN.	Pass
	Transverse direction	No failure		Pass
Intermediate Guardrail	Longitudinal direction	No failure		Pass
	Transverse direction	No failure		Pass



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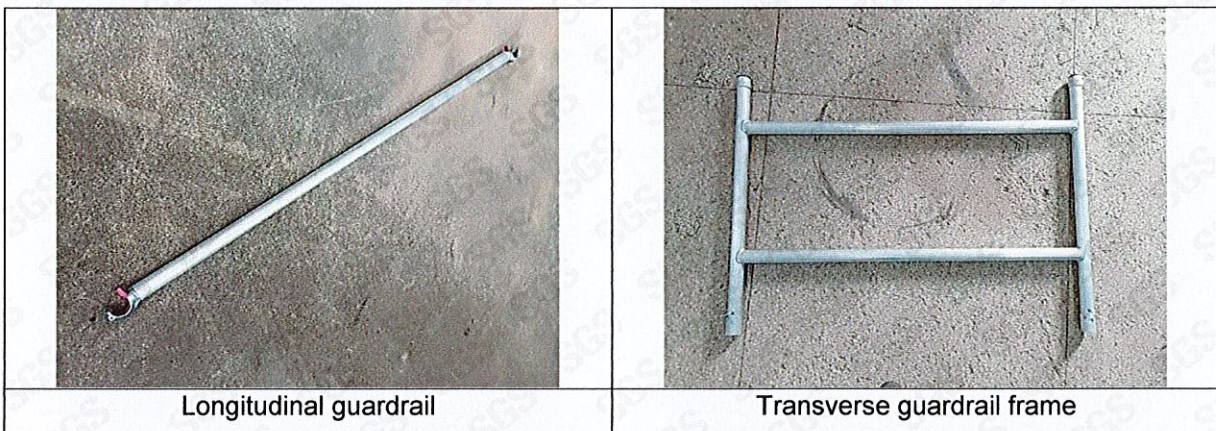
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### 2) Horizontal load

Specimen		Maximum deflection	Test requirement	Conclusion
Top guardrail	Longitudinal direction	7.5mm	When subject to the load in table 5, line 2.2, the maximum deflection of any principle or intermediate guardrail, regardless of its span, shall not exceed 35mm	Pass
	Transverse direction	2.5mm		Pass
Intermediate guardrail	Longitudinal direction	6.5mm		Pass
	Transverse direction	1.5mm		Pass
Toe-board	Longitudinal direction	15mm	When subject to the load in table 5, line3, the maximum deflection of any toe-board, regardless of its span, shall not exceed 35mm	Pass
	Transverse direction	10mm		Pass

Note: Horizontal load for guardrail is 0.3kN, horizontal load for toe-board is 0.15kN.

### Sample photos:



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**SHCCM 038859**

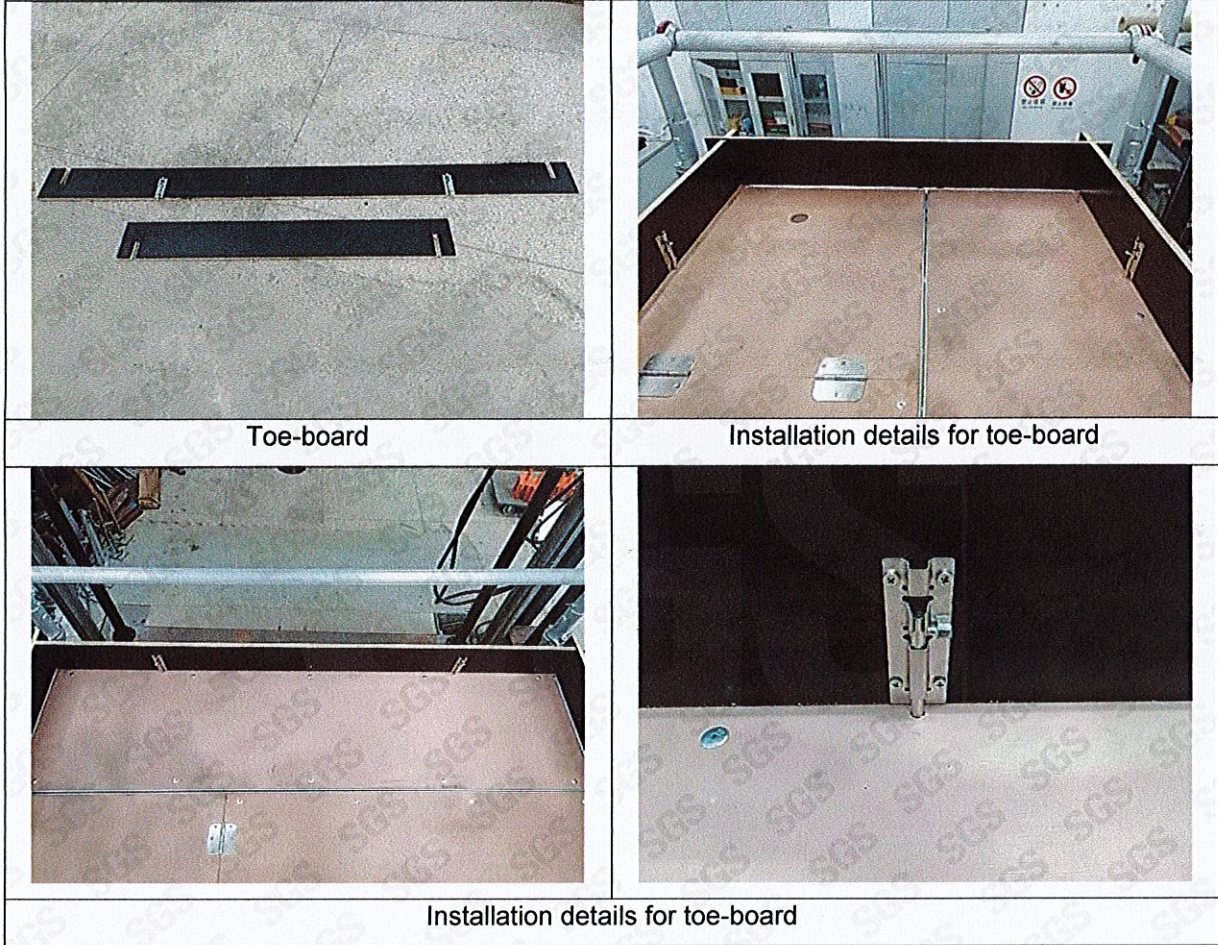
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2. Test item: Testing of Castor wheels

Test method: EN 1004:2004 Clause 7.5

Test item	Test result		Requirement	Conclusion
Brakes	No rotation		The brake mechanism shall effectively prevent any rotation of the wheel when a horizontal force of 0.30kN is applied through the vertical swivel axis of the castor as close as possible above the castor housing and in the rolling direction of the castor. The vertical service load per castor wheel is applied when testing the castor brakes.	Pass
	No rotation			
	No rotation			
	No rotation			
	No rotation			
Test loads	Total deformation d <sub>c</sub> (mm)	Residual deformation d <sub>r</sub> (mm)	d <sub>c</sub> ≤ 15mm d <sub>r</sub> ≤ 1.5mm	Pass
	3.07	0.86		
	4.75	0.42		
	4.28	0.27		
	4.80	0.28		
	3.50	0.05		
Note:	The service load (offered by client): 500kg.			

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**SHCCM 038861**

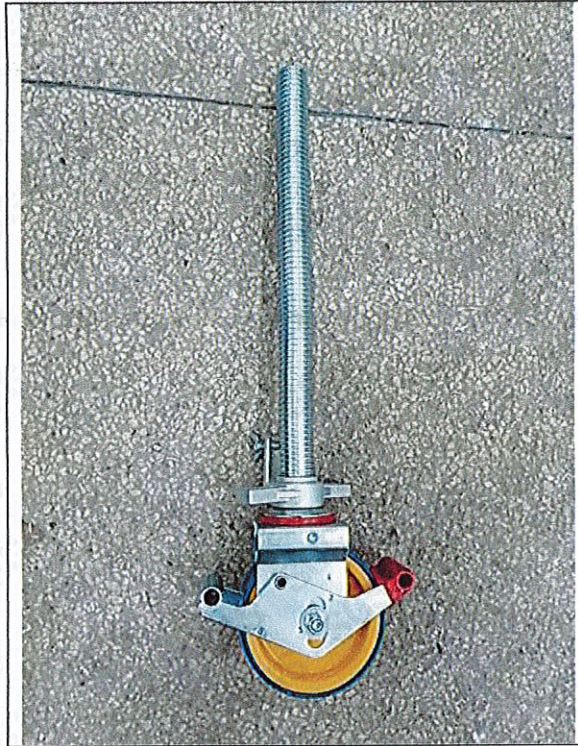
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Sample photo(s):



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

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SHCCM 038862

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