



TEST REPORT

No. : SHIN160702718CCM

Date : Aug. 15, 2016

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CORONET GROUP SUZHOU CO., LTD.

#1505 SIFC, SUZHOU, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : SCAFFOLD PLANK
Sample Number : SHIN160702718CCM
SGS Ref. No. : IN-SH-CP-5612-16058
Test Required : Please see the next page(s)
Test method : AS/NZS 1577:2013
Product specification : 3070mm*320mm O-Plank
Product Material : Q235
Date of Receipt : Jul. 26, 2016
Test Period : Jul. 26, 2016 to Aug. 04, 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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Testing Center Commercial Construction Material Laboratory

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I. Sample description:

Name	Scaffold plank
Dimensions of sample	3070mm×320mm×76mm×1.61 mm (Length × Width × Height × Wall thickness)
Sample material	Steel
Duty category	Medium duty
The working load limit (WLL)	3.129kN
Test span	3070mm

II. Stiffness test

Test Item	Test method	Test result		Requirement
Stiffness test	AS/NZS 1577:2013 Appendix A	Load on the edge at the midspan	Deflection=13.63 mm The sample did not dislodge from the point of support.	See remark 2
		Load on the center of the midspan	Deflection=11.78 mm The sample did not dislodge from the point of support.	

Remark:

1. In the stiffness test, $F_t=1.5$ kN;

2. Requirement in AS/NZS 1577:2013:

When tested in accordance with AS/NZS 1577:2013 Appendix A, the decking component shall not dislodge from the point of support and the deflection of the decking component shall not exceed the lesser of—

(a) Span/100;

(b) Edge thickness (measured at 5mm from the edge) plus 10mm; and

NOTE: The edge thickness is relevant where the decking material overhangs the supporting frame in a prefabricated platform.

(c) 30mm.

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



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III. Strength test

Test Item	Test method	Test result		Requirement	Conclusion
Strength test	AS/NZS 1577:2013 Appendix B Paragraph B4(a) to (e)	Permanent deformation	2.38mm	≤10.23mm	Pass
		Observation	1. The sample did not dislodge from the point of support. 2. The sample did not show any visual signs of distress, buckling.	See remark 2	
	AS/NZS 1577:2013 Appendix B Paragraph B4(f) and (g)	Load at failure	7.861kN	≥ 6.884kN	
		Mode of failure	The sample failed progressively and did not break into separate parts.	See remark 2	

Remark:

1. In the strength test, $F_t = 2WLL = 6.258kN$;

2. Requirements in AS/NZS 1577:2013

When tested in accordance with AS/NZS 1577:2013 Appendix B, the decking component shall comply with the following requirements:

- (a) The decking component shall not dislodge from the points of support.
- (b) When tested to Paragraph B4, step (a) to (e), Appendix B, the decking component shall comply with the following:
 - (i) It shall not show visual signs of distress, buckling or permanent deformation exceeding span/500 for wood-base or non-ductile structural members. In addition, there shall be no audible signs of distress from wood-based material and solid timber scaffold planks.
 - (ii) It shall not show visual signs of distress, buckling or permanent deformation exceeding span/300 for ductile structural members.
- (c) When tested to Paragraph B4, step (f) and (g), Appendix B, the failure load shall be not less than $2.2 \times WLL$.
- (d) The mode of failure shall be to fail progressively and not break into separate parts

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



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IV. Coefficient of friction test

Test Item	Test method	Test result			Requirement	Conclusion
Coefficient of friction test	AS/NZS 1577:2013 Appendix D	Horizontal force (F_h)	Coefficient of static friction (μ)	Pass	$\bar{\mu} \geq 0.7$ $\mu \geq 0.6$	Pass
		184N	0.75	0.82		
		195N	0.80			
		205N	0.84			
		214N	0.87			
		198N	0.81			
		203N	0.83			

Requirements in AS/NZS 1577:2013

When tested in accordance with Appendix D, the static coefficient of friction shall not less than 0.7 with no single test resulting in a static coefficient of friction less than 0.6.

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

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



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Sample photos:



Front view



Back view

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



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