



only

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CUSTOMER NAME:	CORONET GROUP SUZHOU CO., LTD.
ADDRESS:	ASCENDAS XINSU SQUARE, 5 XINGHAN STREET, SUZHOU,
	JIANGSU, CHINA
Sample Name :	RINGLOCK SCAFFOLD

eample Hame	•	
Product Specification	:	Please see the below table
Product or Lot No.	:	Please see the below table
Manufacturer	:	Coronet Group Suzhou Co., Ltd.
Material	:	Q345

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.

******

Date of Receipt	:	2024-01-08
Testing Period	:	2024-01-08 ~ 2024-02-08
Test result(s)	:	For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer of to the sample(s) tested)

Signed for SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd..

Xander Yang

Xander Yang Authorized signatory



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Ref.No	Product Specification
RV33	Ringlock Standard 1.0m
RV66	Ringlock Standard 2.0m
RH207	Ringlock Ledger 2.07m
RH109	Ringlock Ledger 1.09m
RDB207	Ringlock Diagonal Brace 2.07x2.0m
RDB109	Ringlock Diagonal Brace 1.09x2.0m
ROSP32207	Ringlock Steel Plank 2.07x0.32m
ROSP32109	Ringlock Steel Plank 1.09x0.32m
RTB207	Ringlock Steel Toeboard 2.07m
RTB109	Ringlock Steel Toeboard 1.09m
CSJB600 Ringlock Base Jack 600	
RSC-L	Ringlock Base Collar 310mm
RUHEAD600	Ringlock U Head Screw Jack 600mm



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Original Sample Photo:





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Test conducted:

EN 12810-1:2003 Facade scaffolds made of prefabricated components-Part 1: Products specifications EN 12811-1:2003 Temporary works equipment Part 1: Scaffolds – Performance requirements and general design

#### Test Results:

Test Clause	Test Item	Test Requirement	Test Result	Conclusion
6.2.2	Steel tubes (circular)	For 2.0m standard (Φ48.3mm): t (wall thickness) =3.2mm (claimed by client); R (Yield strength) ≥235N/mm <sup>2</sup> Tolerance of the wall thickness: ±10%	t=3.23mm; R=439N/mm <sup>2</sup> Tolerance of the all thickness: 0.9%	Pass
7.3.1	Further requirements- general	<ul> <li>a) Every area for access and working shall be so arranged as to provide a convenient working place;</li> <li>b) Attention shall be paid to ergonomic consideration;</li> <li>c) The area shall be fully decked and shall be provided with appropriate side protection;</li> <li>d) Connections between separate parts shall be effective and easy to monitor and easy to assemble and secure against accidental disconnection.</li> </ul>	It satisfies the requirement of a), b), c) and d)	Pass



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		0.9m ≤ w (width of bay) ≤1.2m;			
Further 7.3.1 requirements-		c (free walking space) ≥500mm;	W=1060mm;		
		b (clear distance between	c=1042mm;	Pass	
7.5.1	general	standards) ≥600mm;	b=1000mm;	1 033	
	general	h3(clear head height between	h <sub>3</sub> =1930mm.		
		working areas) ≥1900mm.			
		The principal guardrail shall be			
		fixed so that its top surface is 1m or	The absolute		
		more above the adjacent level of		Pass	
7.3.2	Side	the working area everywhere	height is 998mm		
1.3.2	protection	(absolute minimum height 950mm)			
		The distance between the			
		intermediate and adjacent principal	d <sub>2</sub> =452mm	Pass	
		d₂≤470mm			
		Raso jacks shall have a minimum	The base jack		
		Base jacks shall have a minimum adjustment of 200mm	can be adjusted	Pass	
			450mm		
		The area of the end plate shall be a	The area of end		
		minimum of 150 cm <sup>2</sup> . The minimum	plate is 213cm <sup>2</sup> .	Pass	
		width shall be 120 mm	The width is	1 435	
			150mm		
7.3.3	Base jacks	The inclination of the axis of the	The inclination of		
		shaft from the standard does	the axis of the	Pass	
		exceed 2.5%	shaft from the	1 435	
			standard is 2.5%		
		The minimum overlap length at any	The minimum		
		position of adjustment shall be 25%	overlap length of	Pass	
		of the total length of the shaft, or	adjustment is	1 000	
		150mm which is greater	154mm		
	1	1	1		



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		The thickness of the endplate shall be at least 6 mm	The thickness of the endplate is 8 mm	Pass
		For the versatility of platform height, the scaffold include components to enable: a) The erection of adjacent pairs of standards on surfaces which differ in level by any amount up to 2.0m b) the erection of a single platform at any height between 2.0m and 24.0m	The scaffold includes components to satisfy the requirement of a) and b).	Pass
7.3.4 Platform	<ul> <li>a) Platform units should have a slip-resistant surface</li> <li>b) Working area shall be as level as possible.</li> </ul>	It satisfies the requirement of a) and b).	Pass	
	<ul> <li>c) The decking components should close any gap between them wider than 25mm.</li> <li>d) Where a standard separates parts of a platform, the distance between these parts shall not be more than 80mm</li> </ul>	c), No decking components provided by the client d), N/A	Pass	



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8.1	Actions	All system configurations shall resist the combination of loads without any visual deformation.	See Appendix A	Pass
Test clause conclusion				
Test clause does not apply to test object		N/A		
Test item does meet the requirement		Pass(P)		
Test item does not meet the requirement		Fail(F)		

Note: Maximum extended height of base jack is 450mm as per client's requirement.



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Appendix A: Detail test result of load test and test photos Test method:

EN 12811-1:2003 Temporary works equipment Part 1: Scaffolds – Performance requirements and general design & Clause 6.2.9 Load combinations test in the service condition.

#### 1. Sample information

	-		
Scaffold components	Unit Mass (kg)	Number of components in design bay (36.61m design height)	The weight of design bav. G₀(kɑ)
Ringlock Standard 1.0m	4.86	4	
Ringlock Standard 2.0m	10.09	72	
Ringlock Ledger 2.07m	8.47	110	
Ringlock Ledger 1.09m	4.76	110	
Ringlock Diagonal Brace 2.07×2.0m	10.10	36	
Ringlock Diagonal Brace 1.09×2.0m	8.41	36	4153.52
Ringlock Steel Plank 2.07×0.32m	16.29	54	4155.52
Ringlock Steel Toeboard 2.07m	6.50	36	
Ringlock Steel Toeboard 1.09m	3.52	36	
Ringlock Base Jack 600mm	3.30	4	
Ringlock Base Coller 310mm	1.70	4	
Ringlock U Head Screw Jack 600mm	6.39	4	

Table 1 The weight of designed bay, G<sub>d</sub><sup>Note</sup>

Note:  $G_d$ =for one bay, the self weight of the assembled scaffold at its maximum design height, including all components, such as steel plank, scaffolding standard, base collar and so on.



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Table 2 The weight of test bay,  $G_t^{Note}$ 

Scaffold components	Unit Mass (kg)	Number of components in test bay (6.61m test height)	The weight of test bay, G <sub>t</sub> (kg)
Ringlock Standard 1.0m	/	0	
Ringlock Standard 2.0m	10.14	12	
Ringlock Ledger 2.07m	7.73	20	
Ringlock Ledger 1.09m	4.39	20	
Ringlock Diagonal Brace 2.07×2.0m	9.32	6	
Ringlock Diagonal Brace 1.09×2.0m	8.00	6	692.83
Ringlock Steel Plank 2.07×0.32m	16.31	9	092.05
Ringlock Steel Toeboard 2.07m	5.66	4	
Ringlock Steel Toeboard 1.09m	3.16	4	
Ringlock Base Jack 600mm	3.64	4	
Ringlock Base Coller 310mm	1.67	4	
Ringlock U Head Screw Jack 600mm	5.38	4	

Note: Gt=for one bay, the weight of the assembled scaffold as erected to the height for the test, including all the components.

Table 3 Service loads on working areas

EN 12811-1:2003 stipulates that the service uniformly distributed load applied to a working area for a load class 6 shall be 6.00kN/m<sup>2</sup>.

Load class on working area	Class 6
The number of working area in design bay	Two working areas
Uniformly distributed load q <sub>1</sub> kN/m <sup>2</sup>	6



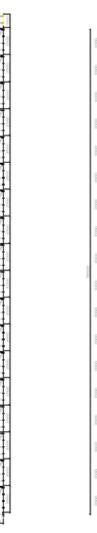
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2. Scaffold configuration in test:

The maximum design height of scaffold system was 36.61m according to client's instruction while the scaffold assembly installed in test was one bay wide (1090mm) and one bay long (2070mm), by three lifts high, the height of each lift was 2000mm. The maximum extension height of the adjustable leg was 450mm.





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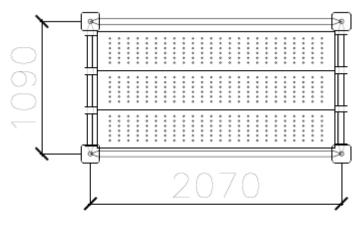
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Layout Drawing

Scaffold configuration

- 3. Load calculation:
  - 1) Self weight of the scaffold:

A vertical load was applied simulating the action of self weight of the scaffold assembly at the maximum design height in one bay on the standards. The load was distributed on the four standards through load beams.

 $F_v = G_d - G_t = 4154 - 693 = 3461 \text{kgf},$ 

- 2) Uniformly distributed service load appropriate to the class of the working scaffold specified in Table 3, column 2, acting on the working area of the most unfavourable decked level. Specification of the steel plank: 2070mm (Length) × 320mm (Width) Number of steel plank in three working platforms: 6pcs F<sub>u</sub>=q<sub>1</sub>×L×W=6.0×2.07×0.32×6×1000/9.8=2433kgf
- 3) 50% of the load specified in 2) shall be taken to act on the working area at the next level above or below if a working scaffold has more than one decked level. F<sub>u50%</sub>=2433×50%=1216kgf



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 Horizontal working load specified in 6.2.3. Horizontal working load:

 $F_{dh1}=F_u \times 2.5\% = 596N;$ 

F<sub>dh2</sub>=300N;

 $F_{dh}$ =596N(For each bay considered the notional horizontal load shall be not less than 2.5% of the total of the uniformly distributed load, q<sub>1</sub>, specified in Table 3, on that bay, or 0.3kN, which is greater.)

F<sub>th</sub>=H<sub>d</sub>×F<sub>dh</sub>/H<sub>t</sub>=36.61×596/6.61/9.8=337kgf



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4. Test procedure:

Apply the load combinations to the scaffold assembly, check the scaffold whether it be capable of resisting the worst combinations of loads to which it is likely to be subjected. The horizontal load shall be applied parallel and perpendicular to the bay separately.

#### 5. Test results:

#### 1) Horizontal working load parallel to the bay

Test Item	Test height	Value of Loa	d	Test result	Requirement in EN 12811-1:2003 Clause 6.2.9.1	Conclusion
	Uniforn se 50% o 6.61m distril	Self weight	3461kgf	The working		
		Uniformly distributed	2433kgf	scaffold structure	The scaffold was	
Load		service load		shall be capable	capable of	
combinations		50% of the uniformly		of resisting the	resisting the	
(Service		distributed service	1216kgf	worst	combination of	Pass
condition)		load		combinations of	loads without any	
condition				loads to which it is	visual	
		Horizontal working 337kgf	337kgf	likely to be	deformation.	
		load		subjected.		



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	Test height	Value of Load			Requirement in	
Test Item				Test result	EN 12811-1:2003	Conclusion
					Clause 6.2.9.1	
	Load combinations (Service condition)	Self weight	3461kgf	The working		
		Uniformly distributed	2433kgf	scaffold structure	The scaffold was	
Load		service load		shall be capable	capable of	
		50% of the uniformly		of resisting the	resisting the	
		distributed service	1216kgf	worst	combination of	Pass
, ,		load	-	combinations of	loads without any	
condition)		Horizontal working load		loads to which it is	visual	
	Hori		337kgf	likely to be	deformation.	
				subjected.		

2) Horizontal working load perpendicular to the bay



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Test Photo(s):



Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

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



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