Test Report



Report No 286/7373454 This Report consists of 5 pages Client Steeldeck Rentals Ltd 42-72 Verney Road London SE16 3DH BSI Quotation Acceptance Form Number BSI 0000207830 Authority & date Dated 14 May 2009 Items tested Steel staging units Specification Steeldeck Load Test Scope J384 Steeldeck Revision: P1 dated 4 February 2009 published by Webb Yates Engineers and various methods agreed with the Client Results See text JKerssa_ Prepared by G R Essam Principal Engineer Authorized by Laboratory Manager M Mayo Issue Date 11 August 2009 Conditions of issue This Test Report is issued subject to the conditions stated in current issue of CP0322 'Conditions of Contract for Testing'. The results contained herein apply only to the particular sample/s tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published

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TESTING, EXAMINATION AND ASSESSMENT OF STEEL STAGING UNITS SUBMITTED AS INDEPENDENT TEST SAMPLES

INTRODUCTION

At the request of Steeldeck Rentals Ltd the steel staging units, detailed below, were tested and assessed against the method described in Steeldeck Load Test Scope J384 Steeldeck Revision: P1 dated 4 February 2009 published by Webb Yates Engineers and various methods agreed with the Client as indicated on the following pages of this Report. This request was made in a BSI Quotation Acceptance Form Number BSI 0000207830 dated 14 May 2009. It is emphasized that assessments were not made against the other clauses of the Specification.

This Report only relates to the actual samples which have been tested and assessed. The results obtained do not necessarily relate to samples from the production line and in no way imply that the performance or quality of the continuing production will be maintained.

The testing described in this report was supervised at the Verney Road site of Steeldeck Rentals Ltd on 29 July 2009.

TEST ITEMS

Arena Pattern 2438mm x 1218mm (8' x 4') Steel Staging Units Fork Pattern 2438mm x 1218mm (8' x 4') Steel Staging Units

EXAMINATION AND TEST

CLAUSE ASSESSMENT

2 LOAD TESTS

Loading conditions;

Uniformly distributed load

The steel staging units were fitted with legs and loaded uniformly over their upper surfaces to determine whether collapse occurred. At each loaded and unloaded condition the vertical deflections were recorded after 1 minute of loading or unloading. All deflections were recorded to the nearest millimetre.

5 kN/m ² 7.5 kN/m ² 12.1 kN/m ² 20 kN/m ²		2.2 3.6	1.5 tonnes 2.25 tonnes 3.6 tonnes 6.0 tonnes		
Sample	Uniformly distributed load	Centre deflection (mm)	Centre of long edge deflection (mm)		
Arena pa	attern staging	unit with four		S	
1	Datum 5 kN/m² No load 7.5 kN/m² No load No collapse o	0 9 3 11 4	0 6 0 8 0	-* -* -* -*	Pass
	140 dellapoe e	ocarroa			1 400
* Deflecti	ons not recorde	ed at corner le	g for this sam	nple	
2	Datum 5 kN/m² No load 7.5 kN/m² No load No collapse o	0 7 0 8 1 ccurred	0 4 3 6 0	0 1 0 1	Pass
3	Datum 5 kN/m² No load 7.5 kN/m² No load 12.0 kN/m² No load 12.1 kN/m² No load	0 4 3 11 2 -* 2 -* 3	0 4 0 4 0 9 0 9	0 3 2 3 2 2 2 2 3 3	Poop
	No collapse o	ccurrea			Pass
* Centre	deflections not	recorded for th	nese conditio	ne	

Mass used

^{*} Centre deflections not recorded for these conditions

EXAMINATION AND TEST (CONTINUED)

CLAUSE	ASSESSMENT
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2 LOAD TESTS (CONTINUED)

Sample	Uniformly distributed load	Centre deflection (mm)	Centre of long edge deflection (mm)	Corner leg deflection (mm)				
Fork staging unit with four 585mm legs								
1	Datum	0	0	0				
	5 kN/m ²	7	4	2				
	No load	0	1	1				
	7.5 kN/m^2	9	6	2				
	No load	2	1	1				
	No collapse occurred							
2	Datum	0	0	0				
	5 kN/m ²	7	7	2				
	No load	0	3	2				
	7.5 kN/m ²	7	7	2 3				
	No load	0	3	3				
	No collapse oc	curred			Pass			
Arena pattern staging unit with six 585mm legs								
1	Datum	_*	0	0				
	12.1 kN/m ²	_*	3	0				
	20 kN/m ²	_*	6	1				
	No load	_*	1	1				
	No collapse occurred							

^{*} Centre deflections not recorded for these conditions

Arena pattern staging unit with four 1220mm legs

The staging unit was loaded to 12.1 kN/m² without collapse While the above load was applied a horizontal force of 2.45 kN was applied to the centre of a short side without collapse While the above load was applied a horizontal force of 4.9 kN was applied to the centre of a short side without collapse

Pass

Pass

EXAMINATION AND TEST (CONTINUED)

CLAUSE ASSESSMENT

2 LOAD TESTS (CONTINUED)

Lower frame member bending test

A 2m length of 19mm x 19mm steel section, used for the lower frame member, was loaded at the centre of a 1.5m span to determine three point bending deflections.

Load applied	Deflection (mm)
Datum	0
245 N (25 kg)	5
0 N	0
490 N (50 kg)	30
0 N	2
589 N (60 kg)	40
0 N	5
735 N (75 kg)	59
0 N	14
834 N (85 kg)	75
952 N (97 kg)	Collapse load