

TEST REPORT

REPORT NUMBER

012878

DATE OF ISSUE

19-07-2018

Client

SafeStand Ltd
Unit 6 Fourth Way
Wembley
Middlesex
HA9 0LH

Customer order N°

SAS00382

Testing of

3 samples
1200L mk6 2.2m
1200L mk 5 2.2m
800/5L 1340mm

to BS1139 Part 4 1982, requested bay loading
uniformly distributed and temporary edge protection test in
accordance with BS EN13374 load test values.

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1.0 Test Objective

To ascertain the suitability of the samples supplied, for load testing to BS1139 Part 4 1982. UDL upon two trestle platform at 5 board wide x 1150mm.
Temporary hand rail test in accordance with loads specified in BSEN13374:2003

2.0 Name Of Test House

Lloyds British
Unit 1 Kings Hill Business Park
Darlaston Road
Wednesbury
WS10 7SH

3.0 Accreditation Reference

ISO 9001: 2008

4.0 Date Of Test

21/06/18

5.0 Witness Details

Mr B O'Driscoll

6.0 Description of items tested.

1200L MK6 2.2m
1200L MK5 2.2m
800/5L MK21340mm

7.0 Test Type

Load Testing of 3 samples in accordance with BS1139 part 4 1982 test specifications.
Requested UDL test upon 2 trestle 5 board system at 1150mm length nominal.
Handrail/guard rail subject to load specifications of BSEN13374:2003

8.0 Equipment & Calibration

Calibrated test weights
Hydraulic pump and ram back calibrated.
Calibrated tensile load link and pulling equipment.
Measuring device range 0.5mm to 30mm.

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9.0 Test Data



BS1139 Part 4 1982 requires that each stand should be able to withstand $2 \frac{1}{2}$ times the stated SWL without failure at $1^{\circ}30'$ out of plumb without ultimate failure. The test load was applied as per the code, each load point to be 75mm at $\frac{1}{4}$ span in from each end.

Each sample subject to test was tested at maximum height. All failures as per test photograph.

Sample	Model	Load achieved
1	1200L MK6	3000kgs
2	1200L MK5	3000kg
3	800/5L MK2	3000kg

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Sample test results BS1139-4

Test upon two trestle system at maximum extension UDL



Sample	Model	Height	Load achieved	Static/Live Load	Sustained Load
1	1200L MK6	2.2mtr	5000kg	YES	YES
2	1200L MK5	2.2mtr	5000kg	YES	YES
3	800/5L MK2	1340mm	5000kg	YES	YES

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9.1 Test data

Testing of temporary hand rail system in accordance with BSEN13374:2003

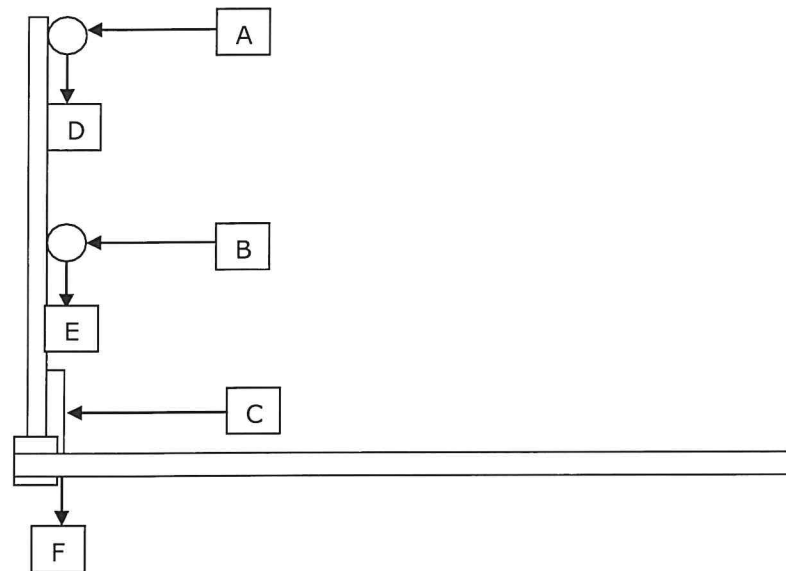
TEST 1: STATIC LOAD TEST, SECTION 6.3 TO 6.3.3

TEST LOAD DIAGRAM:

Each static load case was applied in turn as per BS EN 13374: 2004 section 6.3 static load.

DIAGRAM 1:

SAMPLE ERECTION:



9.1Test Data

RESULTS: TABLE 1: Mid point of handrail

TEST	LOAD APPLIED	DEFLECTION	PERMANENT SET
A	0.3kN	13mm	None
B	0.3kN	8mm	None
C	0.2kN	0mm	None
D	1.25kN	9mm	None
E	1.25kN	7mm	None
F	1.25kN	0mm	None

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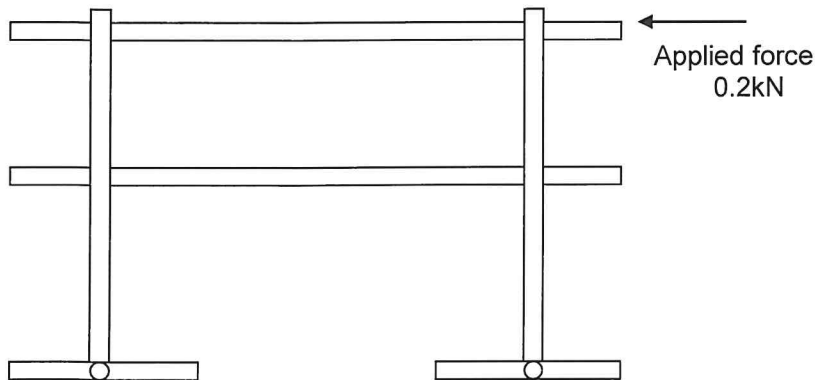
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TEST 2: LOAD PARALLEL TO THE GUARD RAIL

The edge protection was subjected to a 0.2 kN force horizontally at the most obvious point. The assembly should be capable of withstanding the requested force.

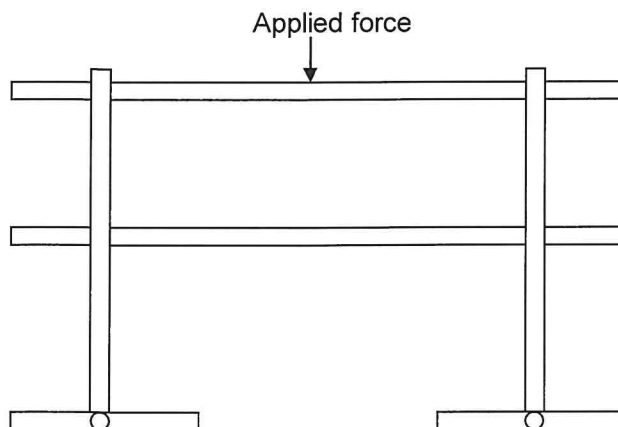


The sample: Withstood a force of 0.2 kN horizontally – 12mm deflection no permanent set

TEST 3: ACCIDENTAL LOADING. 6.3.6

Any guard rail, intermediate guard or toe board shall be capable of resisting a downward force / point load of 1.25 kN on a 100 mm length.

The load was applied using a calibrated weight in each load case. The load was applied at the most unfavorable position in a downward direction of ± 10 degrees from the vertical section 6.3.6. All samples withstood the 1.25 kN force applied as per accidental loading.



All above testing withstood the requested load applications as requested by client.

See test D,E,F FOR DEFLECTIONS

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Test Conducted By: M.Gee and R.Atkinson Test and examination Engineer

Report Reviewed By:

Mr D.P.Marson  Lloyds British engineering manager



Test Conducted on behalf of

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