

**Balustrade load test certificate for:
Alideck Ltd.
Horizontal Line Load Test**

Job ref: BT/ 2755
Barrier ref: Alirail Spindle Balcony with 6mm flat fixing

SERVICE LOAD TEST

Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)			
			Pot 3	Pot 2		
0	0	0	0.00	0.00		
95	0.30	0.22	1.15	1.00		
166	0.60	0.44	2.81	2.79		
236	0.90	0.66	4.57	4.84		
307	1.20	0.88	5.91	6.55		
377	1.50	1.10	8.00	8.50		
0	0	0	0.15	0.12		
Maximum deflection (mm)			8.00	8.50		
Permanent deflection (mm)			0.15	0.12		
Recovery (%)			98.1	98.6		

BARRIER AND TEST DETAILS

Test on entire length?	Yes	Design service load	1.50	kN/m
Barrier length loaded	0.70 m	Proof factor	1.2	
Height of barrier	1.05 m	No. of rams	1	
Initials of tester(s)	TK	Proof test load	1.80	kN/m
Date tested	08/03/2022			
Gauge position				
Gauge location	Pot 3 Opposite direction to load application. Ends span LHS barrier (as per photo)			
Gauge location	Pot 2 Opposite direction to load application. Ends span RHS barrier (as per photo)			

PROOF LOAD TEST

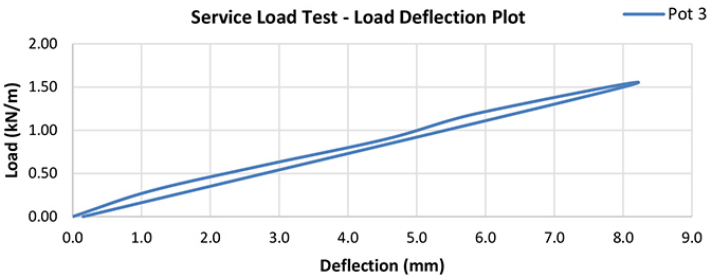
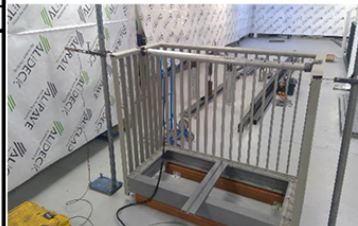
(psi)	(kN/m)	(kN)	Deflections (mm)	
			Pot 3	Pot 2
0	0	0	0.00	0.00
109	0.36	0.26	1.50	1.32
194	0.72	0.53	3.60	3.62
278	1.08	0.79	5.66	6.13
363	1.44	1.06	7.68	8.18
447	1.80	1.32	10.26	10.56
Load maintained for five minutes				
447	1.80	1.32	11.04	11.33
0	0	0	0.62	0.22
Maximum deflection (mm)			11.04	11.33
Permanent deflection (mm)			0.62	0.22
Recovery (%)			94.4	98.1

OBSERVATIONS PRIOR TO TESTS

No defects observed. Both sides of the barrier were tested simultaneously.

OBSERVATIONS DURING & AFTER TESTS

No further defects found.



Allowable deflection: 25.00 mm Maximum deflection: 8.50 mm
TEST CONCLUSION: Pass
 Tested in accordance with the load - deflection requirements of BS 6180:2011 'Barriers in and about buildings - Code of practice.'

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SERVICE LOAD TEST

Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)			
			Pot 3			
0	0	0	0.00			
176	0.30	0.47	2.27			
327	0.60	0.94	4.96			
478	0.90	1.41	7.64			
628	1.20	1.89	10.65			
779	1.50	2.36	18.72			
0	0	0	5.56			
Maximum deflection (mm)			18.72			
Permanent deflection (mm)			5.56			
Recovery (%)			70.3			

BARRIER AND TEST DETAILS

Test on entire length?	Yes	Design service load	1.50	kN/m
Barrier length loaded	1.50	Proof factor	1.2	
Height of barrier	1.05	No. of rams	1	
Initials of tester(s)	TK	Proof test load	1.80	kN/m
Date tested	08/03/2022			
Gauge location	Pot 3 Opposite direction to load application. Midspan			

Gauge position

PROOF LOAD TEST

(psi)	(kN/m)	(kN)	Deflections (mm)			
			Pot 3			
0	0	0	0.00			
206	0.36	0.57	3.29			
387	0.72	1.13	6.32			
568	1.08	1.70	9.60			
749	1.44	2.26	13.39			
930	1.80	2.83	17.28			
Load maintained for five minutes						
930	1.80	2.83	17.72			
0	0	0	2.07			
Maximum deflection (mm)			17.72			
Permanent deflection (mm)			2.07			
Recovery (%)			88.3			

OBSERVATIONS PRIOR TO TESTS

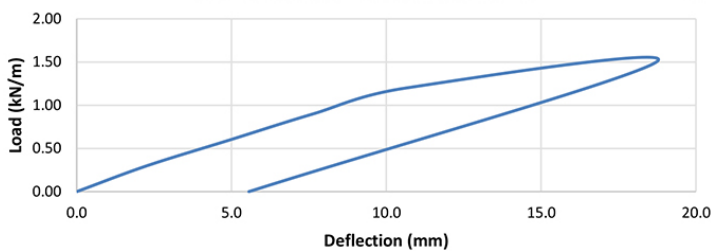
No defects observed.

OBSERVATIONS DURING & AFTER TESTS

No further defects found.



Service Load Test - Load Deflection Plot



Allowable deflection: 25.00 mm Maximum deflection: 18.72 mm

TEST CONCLUSION: **Pass**

Tested in accordance with the load - deflection requirements of BS 6180:2011 'Barriers in and about buildings - Code of practice.'