

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

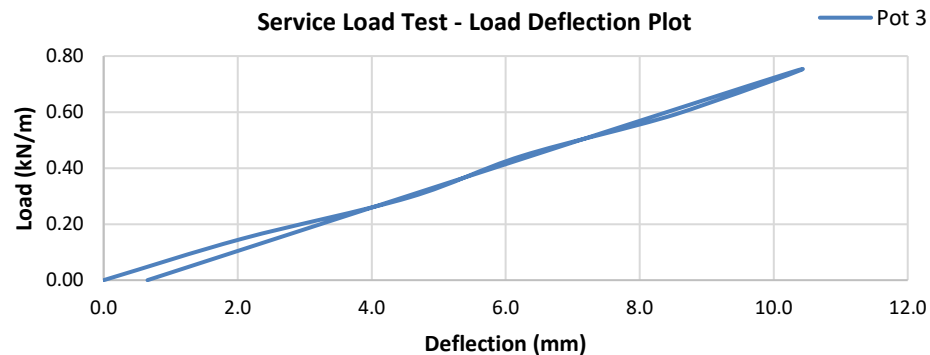
Job ref: BT/ 2755  
Barrier ref: Alirail Juliet Spindle Inset

### 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		
126	0.15	0.32	2.07	0.20		
227	0.30	0.63	4.57	0.54		
328	0.44	0.95	6.25	0.85		
430	0.59	1.26	8.53	1.65		
531	0.74	1.58	10.23	2.43		
0	0	0	0.65	0.05		
Maximum deflection (mm)			10.23	2.43		
Permanent deflection (mm)			0.65	0.05		
Recovery (%)			93.6	97.8		

### PROOF LOAD TEST

(psi)	(kN/m)	(kN)	Pot 3	Pot 2		
146	0.18	0.38	2.77	0.27		
268	0.36	0.76	4.21	0.49		
389	0.53	1.14	7.02	1.28		
511	0.71	1.52	9.38	2.32		
632	0.89	1.90	12.16	3.90		
Load maintained for five minutes						
632	0.89	1.90	12.61	3.93		
0	0	0	0.29	0.10		
Maximum deflection (mm)			12.61	3.93		
Permanent deflection (mm)			0.29	0.10		
Recovery (%)			97.7	97.5		



### BARRIER AND TEST DETAILS

Test on entire length?	Yes	Design service load	0.74 kN/m
Barrier length loaded	2.00 m	Proof factor	1.2
Height of barrier	1.03 m	No. of rams	1
Initials of tester(s)	TK	Proof test load	0.89 kN/m
Date tested	07/03/2022		
Gauge position			
Gauge location	Pot 3	Opposite direction to load application. Midspan	
Gauge location	Pot 2	In direction of load application. Post	

### OBSERVATIONS PRIOR TO TESTS

No defects observed. Tested barrier was fixed into the metal posts.

### OBSERVATIONS DURING & AFTER TESTS

No further defects found.



Allowable deflection: 25.00 mm

Maximum deflection: 10.23 mm

TEST CONCLUSION: Pass

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

### Balustrade load test certificate for: Alideck Ltd. Infill Point Load Test

Job ref: BT/ 2755  
Barrier ref: Alirail Juliet Spindle Face Mounted

SERVICE LOAD TEST							
Pressure (psi)	Point load (kN)	Load/ram (kN)	Deflections (mm)				
			Pot 3	Pot 2			
0	0	0	0.00	0.00			
121	0.30	0.30	1.25	1.26			
217	0.60	0.60	2.92	2.85			
313	0.90	0.90	4.33	4.18			
409	1.20	1.20	5.74	5.50			
505	1.50	1.50	7.08	6.73			
0	0	0	0.16	0.13			
Maximum deflection (mm)			7.08	6.73			
Permanent deflection (mm)			0.16	0.13			
Recovery (%)			97.7	98.1			

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	1.50 kN
Infill length loaded	1.00 m	Proof factor	1.2
Infill height loaded	0.15 m	No. of rams	1
Initials of tester(s)	TK	Proof test load	1.80 kN
Date tested	07/03/2022		
Gauge position			
Gauge location	Pot 3	Opposite direction to load application. top spinder	
Gauge location	Pot 2	In direction of load application. Post	

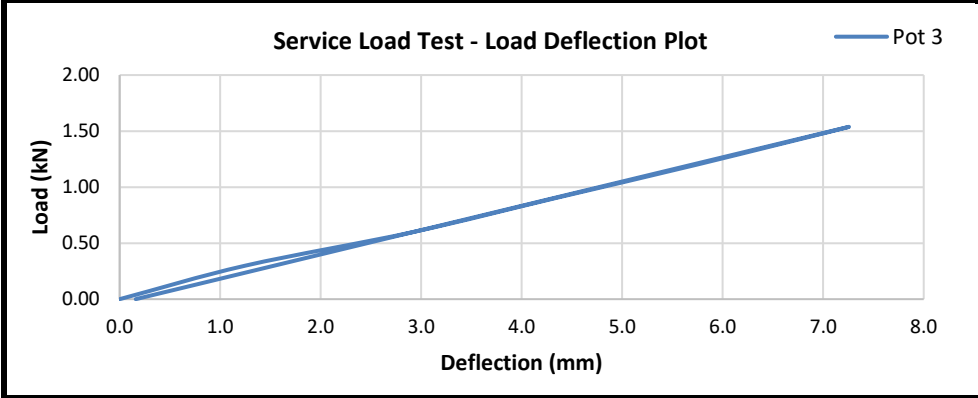
PROOF LOAD TEST							
(psi)	(kN)	(kN)	Deflections (mm)				
			Pot 3	Pot 2			
0	0	0	0.00	0.00			
140	0.36	0.36	2.34	2.30			
255	0.72	0.72	4.16	4.05			
371	1.08	1.08	5.63	5.41			
486	1.44	1.44	7.11	6.77			
601	1.80	1.80	8.56	8.16			
Load maintained for five minutes							
601	1.80	1.80	8.94	8.53			
0	0	0	0.70	0.76			
Maximum deflection (mm)			8.94	8.53			
Permanent deflection (mm)			0.70	0.76			
Recovery (%)			92.2	91.1			

**OBSERVATIONS PRIOR TO TESTS**

No defects observed. Tested barrier was fixed into the metal posts.

**OBSERVATIONS DURING & AFTER TESTS**

No further defects found.



Allowable deflection (smaller of L/65 or 25mm): 15.38 mm    Maximum deflection: 7.08 mm

TEST CONCLUSION: Pass

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

### Balustrade load test certificate for: Alideck Ltd. Infill Area Load Test

Job ref: BT/ 2755  
Barrier ref: Alirail Juliet Spindle Face Mounted

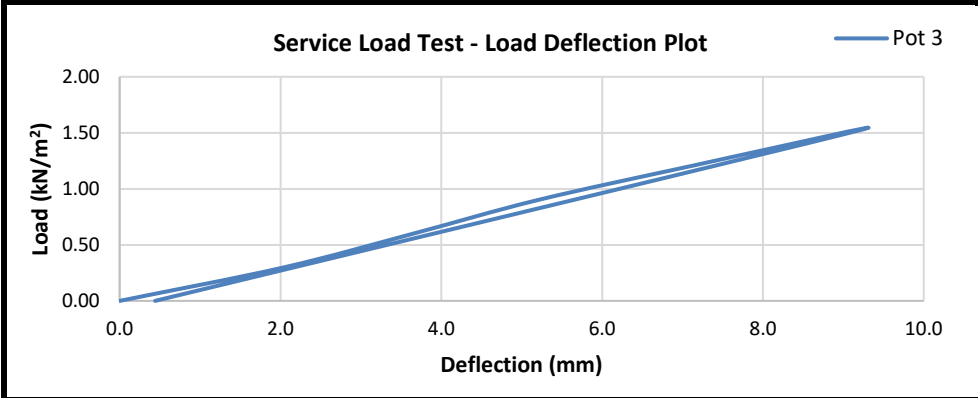
SERVICE LOAD TEST						
Pressure (psi)	U.D.L. (kN/m <sup>2</sup> )	Load/ram (kN)	Deflections (mm)			
			Pot 3	Pot 2		
0	0	0	0.00	0.00		
217	0.30	0.60	2.05	1.98		
409	0.60	1.20	3.65	3.10		
601	0.90	1.80	5.20	4.12		
793	1.20	2.40	7.08	5.35		
985	1.50	3.00	9.08	6.56		
0	0	0	0.44	0.97		
Maximum deflection (mm)			9.08	6.56		
Permanent deflection (mm)			0.44	0.97		
Recovery (%)			95.1	85.1		

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	1.50 kN/m <sup>2</sup>
Infill length loaded	2.00 m	Proof factor	1.2
Infill height loaded	1.00 m	No. of rams	1
Infill area loaded	2.00 m <sup>2</sup>	Proof test load	1.80 kN/m <sup>2</sup>
Initials of tester(s)	TK		
Date tested	07/03/2022		
Gauge position			
Gauge location	Pot 3	Opposite direction to load application. Midspan	
Gauge location	Pot 2	In direction of load application. Post	

PROOF LOAD TEST						
(psi)	(kN/m <sup>2</sup> )	(kN)	Deflections (mm)			
			Pot 3	Pot 2		
0	0	0	0.00	0.00		
255	0.36	0.72	2.31	2.02		
486	0.72	1.44	4.11	3.10		
716	1.08	2.16	5.93	4.17		
947	1.44	2.88	8.08	5.33		
1177	1.80	3.60	10.08	6.38		
Load maintained for five minutes						
1177	1.80	3.60	10.39	6.60		
0	0	0	0.14	0.35		
Maximum deflection (mm)			10.39	6.60		
Permanent deflection (mm)			0.14	0.35		
Recovery (%)			98.7	94.8		

**OBSERVATIONS PRIOR TO TESTS**  
No defects observed. Tested barrier was fixed into the metal posts.

**OBSERVATIONS DURING & AFTER TESTS**  
No further defects found.



Allowable deflection (smaller of L/65 or 25mm): 25.00 mm    Maximum deflection: 9.08 mm  
**TEST CONCLUSION:** Pass  
 Tested in accordance with the load - deflection requirements of BS 6180:2011 'Barriers in and about buildings - Code of practice.'

**Balustrade load test certificate for:  
Alideck Ltd.  
Infill Point Load Test**

Job ref: BT/ 2755  
Barrier ref: Alirail Juliet Spindle Face Mounted

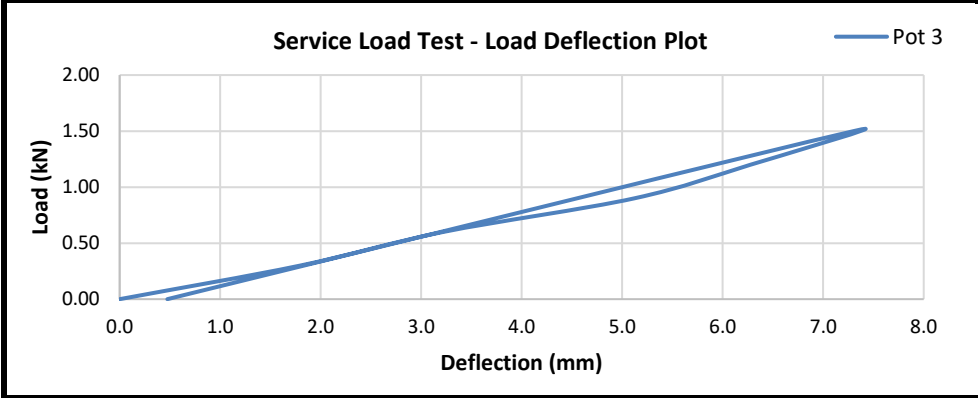
SERVICE LOAD TEST							
Pressure (psi)	Point load (kN)	Load/ram (kN)	Deflections (mm)				
			Pot 3	Pot 2			
0	0	0	0.00	0.00			
121	0.30	0.30	1.80	1.54			
217	0.60	0.60	3.22	2.43			
313	0.90	0.90	5.12	3.59			
409	1.20	1.20	6.28	4.22			
505	1.50	1.50	7.30	4.79			
0	0	0	0.47	0.57			
Maximum deflection (mm)			<b>7.30</b>	<b>4.79</b>			
Permanent deflection (mm)			<b>0.47</b>	<b>0.57</b>			
Recovery (%)			<b>93.5</b>	<b>88.2</b>			

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	1.50 kN
Infill length loaded	1.00 m	Proof factor	1.2
Infill height loaded	1.00 m	No. of rams	1
Initials of tester(s)	TK	Proof test load	1.80 kN
Date tested	07/03/2022		
Gauge position			
Gauge location	Pot 3	Opposite direction to load application. Midspan	
Gauge location	Pot 2	In direction of load application. Post	

PROOF LOAD TEST							
(psi)	(kN)	(kN)	Deflections (mm)				
			Pot 3	Pot 2			
0	0	0	0.00	0.00			
140	0.36	0.36	2.69	2.30			
255	0.72	0.72	4.58	4.05			
371	1.08	1.08	5.93	5.51			
486	1.44	1.44	7.71	6.87			
601	1.80	1.80	8.56	8.37			
Load maintained for five minutes							
601	1.80	1.80	9.94	9.53			
0	0	0	0.70	0.76			
Maximum deflection (mm)			<b>9.94</b>	<b>9.53</b>			
Permanent deflection (mm)			<b>0.70</b>	<b>0.76</b>			
Recovery (%)			<b>93.0</b>	<b>92.1</b>			

**OBSERVATIONS PRIOR TO TESTS**  
No defects observed. Tested barrier was fixed into the metal posts.

**OBSERVATIONS DURING & AFTER TESTS**  
No further defects found.



Allowable deflection (smaller of L/65 or 25mm): 15.38 mm    Maximum deflection: **7.30** mm  
**TEST CONCLUSION: Pass**  
 Tested in accordance with the load - deflection requirements of BS 6180:2011 'Barriers in and about buildings - Code of practice.'