

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

Job ref: BT/2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

SERVICE LOAD TEST			
Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)
0	0	0	Pot 3 0.00
61	0.15	0.11	0.20
97	0.30	0.22	1.66
133	0.44	0.34	3.69
169	0.59	0.45	5.50
204	0.74	0.56	7.67
0	0	0	0.34
Maximum deflection (mm)			<b>7.67</b>
Permanent deflection (mm)			<b>0.34</b>
Recovery (%)			<b>95.5</b>

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	0.74 kN/m
Barrier length loaded	5.84 m	Proof factor	1
Height of barrier	1.06 m	No. of rams	8
Initials of tester(s)	TK	Proof test load	0.74 kN/m
Date tested	31/01/2024		
Type of Barrier	Metal barrier.	Gauge position	
Gauge location	Pot 3 Opposite direction to load application. Midspan		

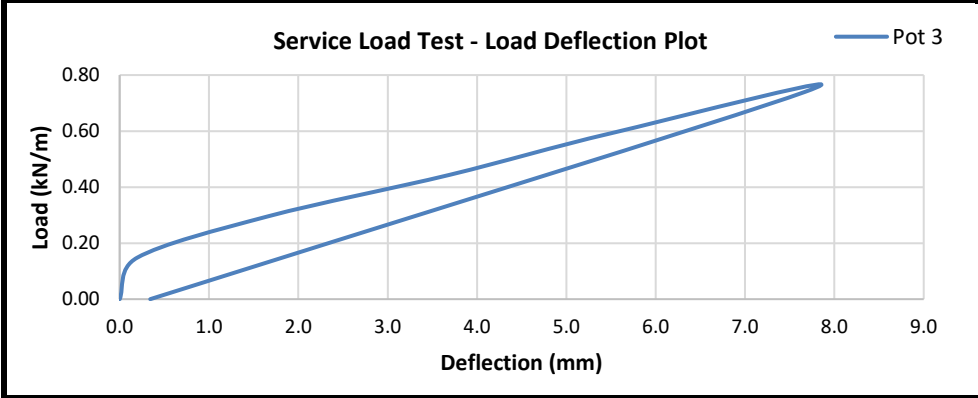
PROOF LOAD TEST			
Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)
0	0	0	Pot 3 0.00
61	0.15	0.11	0.24
97	0.30	0.22	1.60
133	0.44	0.34	3.40
169	0.59	0.45	5.27
204	0.74	0.56	6.90
Load maintained for five minutes			
204	0.74	0.56	7.74
0	0	0	0.08
Maximum deflection (mm)			<b>7.74</b>
Permanent deflection (mm)			<b>0.08</b>
Recovery (%)			<b>99.0</b>

**OBSERVATIONS PRIOR TO TESTS**

No further defects found.

**OBSERVATIONS DURING & AFTER TESTS**

No further defects found.



Allowable deflection: 25.00 mm      Maximum deflection: **7.67** 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. Horizontal Line Load Test

Job ref: BT/ 2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

SERVICE LOAD TEST			
Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)
0	0	0	Pot 3 0.00
61	0.15	0.11	0.24
97	0.30	0.22	1.58
133	0.44	0.34	3.46
169	0.59	0.45	5.17
204	0.74	0.56	7.14
0	0	0	0.17
Maximum deflection (mm)			<b>7.14</b>
Permanent deflection (mm)			<b>0.17</b>
Recovery (%)			<b>97.6</b>

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	0.74 kN/m
Barrier length loaded	5.84 m	Proof factor	1.2
Height of barrier	1.06 m	No. of rams	8
Initials of tester(s)	TK	Proof test load	0.89 kN/m
Date tested	31/01/2024		
Type of Barrier	Metal barrier.	Gauge position	
Gauge location	Pot 3 Opposite direction to load application.	Midspan	

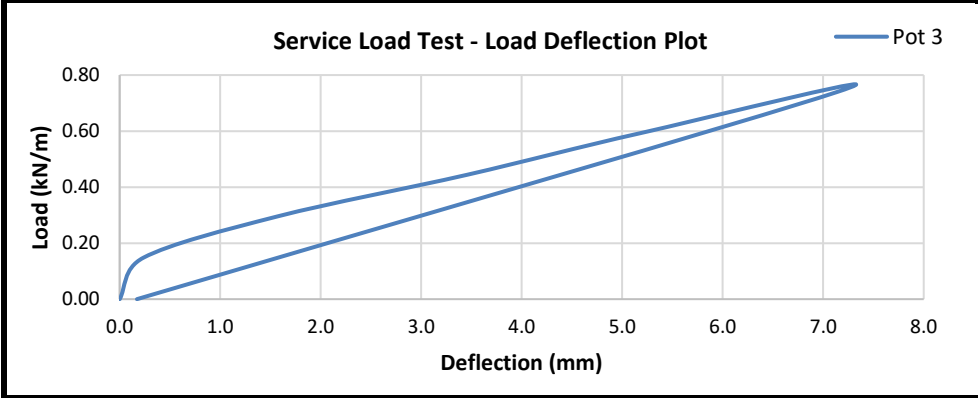
PROOF LOAD TEST			
Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)
0	0	0	Pot 3 0.00
68	0.18	0.13	0.28
111	0.36	0.27	2.08
154	0.53	0.40	4.26
197	0.71	0.54	6.65
240	0.89	0.67	8.65
Load maintained for five minutes			
240	0.89	0.67	9.54
0	0	0	0.09
Maximum deflection (mm)			<b>9.54</b>
Permanent deflection (mm)			<b>0.09</b>
Recovery (%)			<b>99.1</b>

**OBSERVATIONS PRIOR TO TESTS**

No further defects found.

**OBSERVATIONS DURING & AFTER TESTS**

No further defects found.



Allowable deflection: 25.00 mm      Maximum deflection: **7.14** 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.  
Horizontal Line Load Test**

Job ref: BT/ 2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

SERVICE LOAD TEST			
Pressure	U.D.L.	Load/ram	Deflections (mm)
(psi)	(kN/m)	(kN)	Pot 3
0	0	0	0.00
98	0.30	0.23	1.87
170	0.60	0.45	5.40
243	0.90	0.68	9.07
316	1.20	0.91	13.70
389	1.50	1.14	18.89
0	0	0	1.03
Maximum deflection (mm)			18.89
Permanent deflection (mm)			1.03
Recovery (%)			94.6

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	1.50 kN/m
Barrier length loaded	5.84 m	Proof factor	1
Height of barrier	1.06 m	No. of rams	8
Initials of tester(s)	TK	Proof test load	1.50 kN/m
Date tested	31/01/2024		
Type of Barrier	Metal barrier.	Gauge position	
Gauge location	Pot 3 Opposite direction to load application. Midspan		

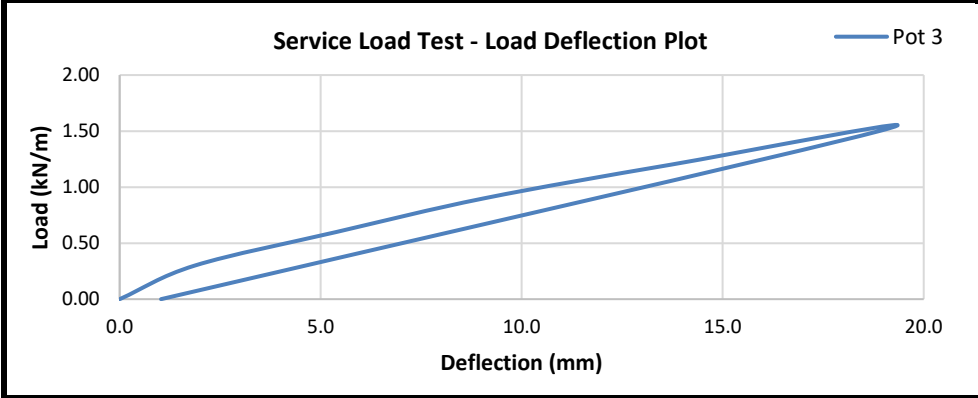
PROOF LOAD TEST			
(psi)	(kN/m)	(kN)	Pot 3
0	0	0	0.00
98	0.30	0.23	2.92
170	0.60	0.45	5.86
243	0.90	0.68	9.73
316	1.20	0.91	13.92
389	1.50	1.14	18.10
Load maintained for five minutes			
389	1.50	1.14	19.02
0	0	0	0.57
Maximum deflection (mm)			19.02
Permanent deflection (mm)			0.57
Recovery (%)			97.0

**OBSERVATIONS PRIOR TO TESTS**

No further defects found.

**OBSERVATIONS DURING & AFTER TESTS**

No further defects found.



Allowable deflection: 25.00 mm      Maximum deflection: 18.89 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. Horizontal Line Load Test

Job ref: BT/ 2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

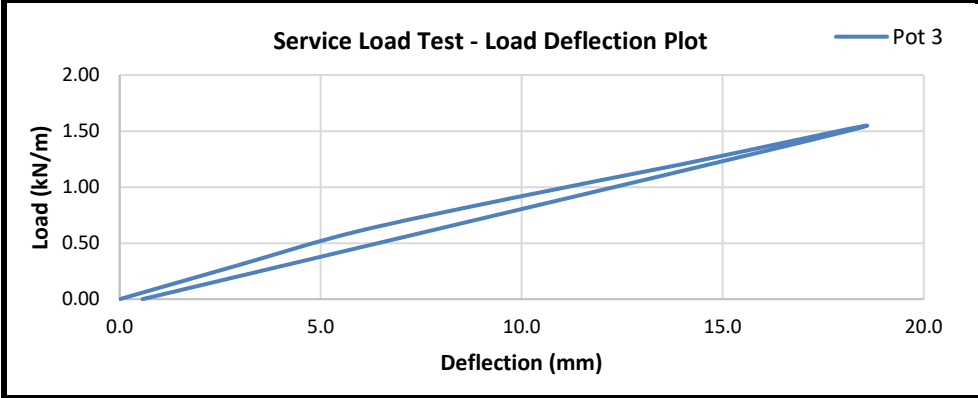
SERVICE LOAD TEST			
Pressure	U.D.L.	Load/ram	Deflections (mm)
(psi)	(kN/m)	(kN)	Pot 3
0	0	0	0.00
98	0.30	0.23	2.92
170	0.60	0.45	5.86
243	0.90	0.68	9.73
316	1.20	0.91	13.92
389	1.50	1.14	18.10
0	0	0	0.57
Maximum deflection (mm)			18.10
Permanent deflection (mm)			0.57
Recovery (%)			96.9

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	1.50 kN/m
Barrier length loaded	5.84 m	Proof factor	1.2
Height of barrier	1.06 m	No. of rams	8
Initials of tester(s)	TK	Proof test load	1.80 kN/m
Date tested	31/01/2024		
Type of Barrier	Metal barrier.	Gauge position	
Gauge location	Pot 3 Opposite direction to load application. Midspan		

PROOF LOAD TEST			
(psi)	(kN/m)	(kN)	Pot 3
0	0	0	0.00
112	0.36	0.27	2.95
200	0.72	0.55	7.38
287	1.08	0.82	12.19
374	1.44	1.09	16.98
461	1.80	1.36	22.97
Load maintained for five minutes			
461	1.80	1.36	23.87
0	0	0	0.79
Maximum deflection (mm)			23.87
Permanent deflection (mm)			0.79
Recovery (%)			96.7

**OBSERVATIONS PRIOR TO TESTS**  
No further defects found.

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



Allowable deflection: 25.00 mm      Maximum deflection: 18.10 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. Horizontal Line Load Test

Job ref: BT/ 2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

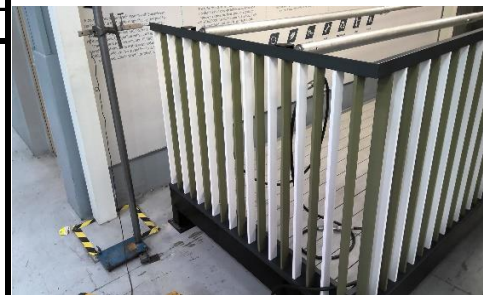
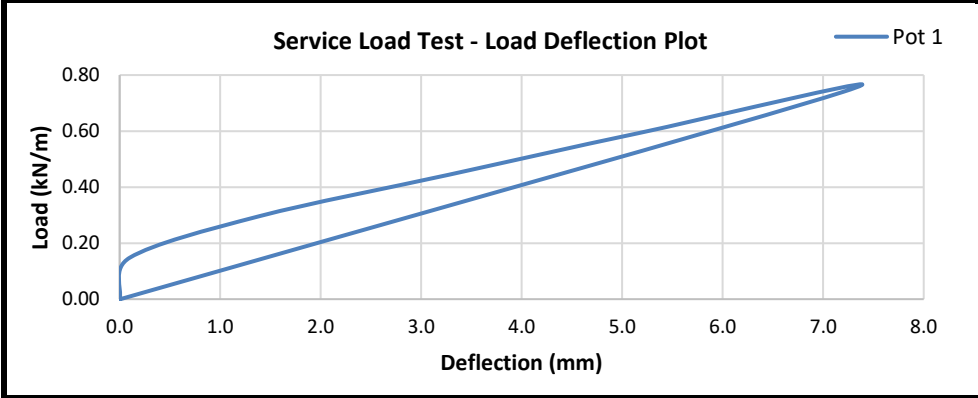
SERVICE LOAD TEST			
Pressure	U.D.L.	Load/ram	Deflections (mm)
(psi)	(kN/m)	(kN)	Pot 1
0	0	0	0.00
64	0.15	0.12	0.10
103	0.30	0.24	1.39
141	0.44	0.36	3.27
180	0.59	0.49	5.15
219	0.74	0.61	7.20
0	0	0	0.01
Maximum deflection (mm)			7.20
Permanent deflection (mm)			0.01
Recovery (%)			99.9

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	0.74 kN/m
Barrier length loaded	1.58 m	Proof factor	1
Height of barrier	1.06 m	No. of rams	2
Initials of tester(s)	TK	Proof test load	0.74 kN/m
Date tested	31/01/2024		
Gauge location	Pot 1 Opposite direction to load application. End span		

PROOF LOAD TEST			
(psi)	(kN/m)	(kN)	Pot 1
0	0	0	0.00
64	0.15	0.12	0.02
103	0.30	0.24	1.96
141	0.44	0.36	3.43
180	0.59	0.49	5.22
219	0.74	0.61	7.33
Load maintained for five minutes			
219	0.74	0.61	7.58
0	0	0	0.15
Maximum deflection (mm)			7.58
Permanent deflection (mm)			0.15
Recovery (%)			98.0

**OBSERVATIONS PRIOR TO TESTS**  
No defects observed.

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



Allowable deflection: 25.00 mm      Maximum deflection: 7.20 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. Horizontal Line Load Test

Job ref: BT/ 2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

#### SERVICE LOAD TEST

Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)			
			Pot 1			
0	0	0	0.00			
64	0.15	0.12	0.17			
103	0.30	0.24	2.37			
141	0.44	0.36	4.05			
180	0.59	0.49	5.36			
219	0.74	0.61	7.08			
0	0	0	0.16			
Maximum deflection (mm)			7.08			
Permanent deflection (mm)			0.16			
Recovery (%)			97.7			

#### BARRIER AND TEST DETAILS

Test on entire length?	Yes	Design service load	0.74 kN/m
Barrier length loaded	1.58 m	Proof factor	1.2
Height of barrier	1.06 m	No. of rams	2
Initials of tester(s)	TK	Proof test load	0.89 kN/m
Date tested	31/01/2024		
Gauge location	Pot 1 Opposite direction to load application. End span		

#### OBSERVATIONS PRIOR TO TESTS

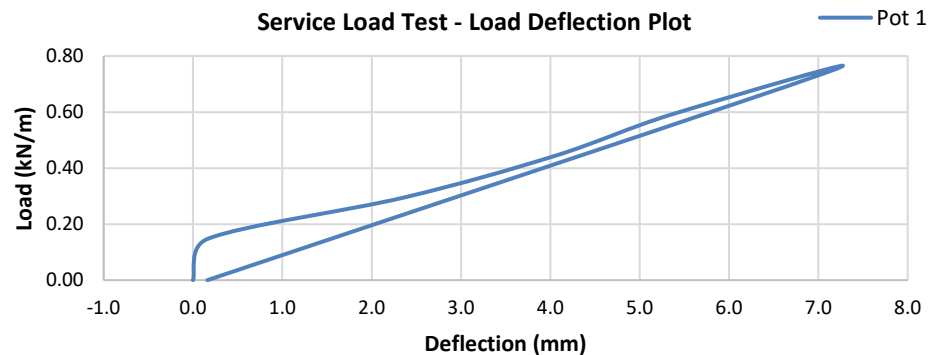
No defects observed.

#### OBSERVATIONS DURING & AFTER TESTS

No further defects found.

#### PROOF LOAD TEST

(psi)	(kN/m)	(kN)	Deflections (mm)			
			Pot 1			
0	0	0	0.00			
72	0.18	0.15	0.52			
118	0.36	0.29	3.09			
165	0.53	0.44	4.97			
211	0.71	0.58	6.50			
258	0.89	0.73	9.84			
Load maintained for five minutes						
258	0.89	0.73	9.84			
0	0	0	0.27			
Maximum deflection (mm)			9.84			
Permanent deflection (mm)			0.27			
Recovery (%)			97.2			



Allowable deflection: 25.00 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. Horizontal Line Load Test

Job ref: BT/ 2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

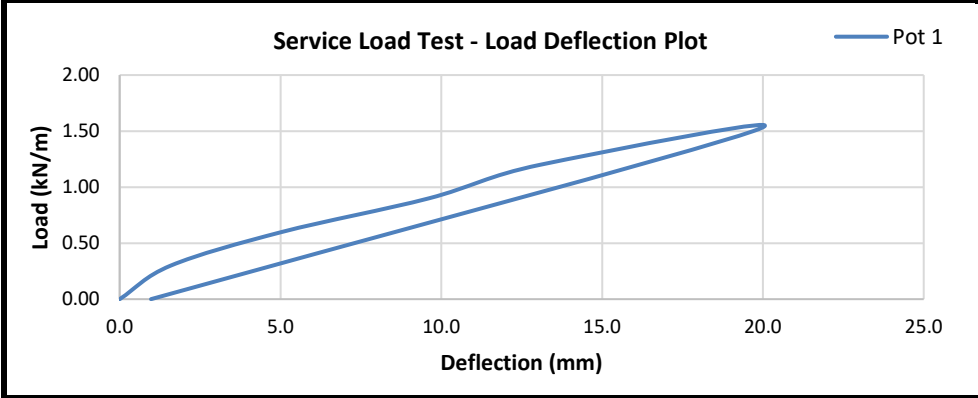
SERVICE LOAD TEST			
Pressure	U.D.L.	Load/ram	Deflections (mm)
(psi)	(kN/m)	(kN)	Pot 1
0	0	0	0.00
104	0.30	0.25	1.59
182	0.60	0.49	5.05
261	0.90	0.74	9.62
340	1.20	0.98	13.08
419	1.50	1.23	19.70
0	0	0	0.97
Maximum deflection (mm)			19.70
Permanent deflection (mm)			0.97
Recovery (%)			95.1

BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	1.50 kN/m
Barrier length loaded	1.58 m	Proof factor	1
Height of barrier	1.06 m	No. of rams	2
Initials of tester(s)	TK	Proof test load	1.50 kN/m
Date tested	31/01/2024		
Gauge location	Pot 1 Opposite direction to load application. End span		

PROOF LOAD TEST			
Pressure	U.D.L.	Load/ram	Deflections (mm)
(psi)	(kN/m)	(kN)	Pot 1
0	0	0	0.00
104	0.30	0.25	1.90
182	0.60	0.49	6.14
261	0.90	0.74	11.11
340	1.20	0.98	15.32
419	1.50	1.23	20.70
Load maintained for five minutes			
419	1.50	1.23	21.31
0	0	0	0.28
Maximum deflection (mm)			21.31
Permanent deflection (mm)			0.28
Recovery (%)			98.7

**OBSERVATIONS PRIOR TO TESTS**  
No defects observed.

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



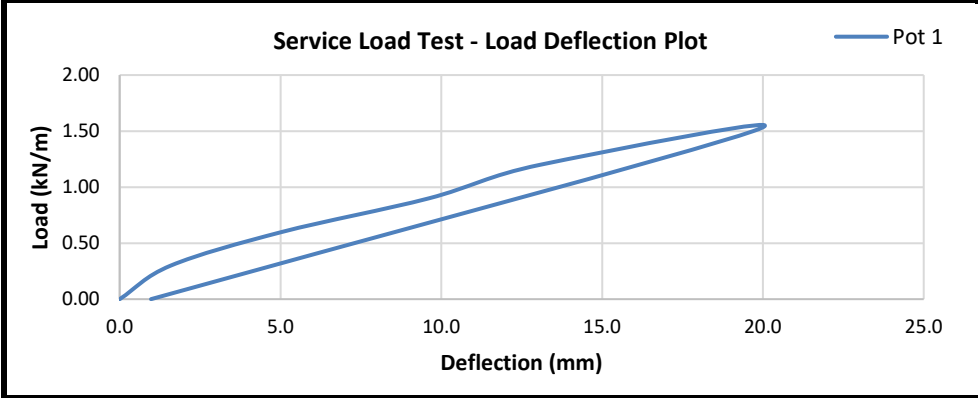
Allowable deflection: 25.00 mm      Maximum deflection: 19.70 mm  
TEST CONCLUSION: **Pass**  
Tested in accordance with the load - deflection requirements of BS 6180:2011 'Barriers in and about buildings - Code of practice.'

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

Job ref: BT/2755/R4  
Barrier ref: AliRail Top Fix PFC System  
Location: n/a

SERVICE LOAD TEST			
Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)
0	0	0	0.00
104	0.30	0.25	1.59
182	0.60	0.49	5.05
261	0.90	0.74	9.62
340	1.20	0.98	13.08
419	1.50	1.23	19.70
0	0	0	0.97
Maximum deflection (mm)			19.70
Permanent deflection (mm)			0.97
Recovery (%)			95.1

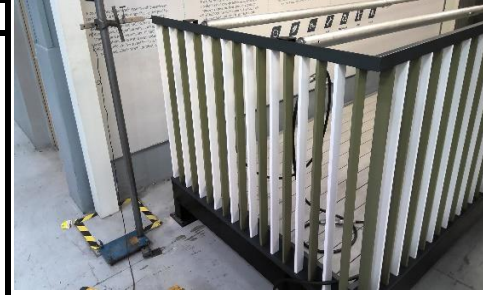
PROOF LOAD TEST			
Pressure (psi)	U.D.L. (kN/m)	Load/ram (kN)	Deflections (mm)
0	0	0	0.00
119	0.36	0.30	2.22
214	0.72	0.59	7.08
308	1.08	0.89	12.08
403	1.44	1.18	17.85
497	1.80	1.48	24.68
Load maintained for five minutes			
497	1.80	1.48	26.40
0	0	0	1.40
Maximum deflection (mm)			26.40
Permanent deflection (mm)			1.40
Recovery (%)			94.7



BARRIER AND TEST DETAILS			
Test on entire length?	Yes	Design service load	1.50 kN/m
Barrier length loaded	1.58 m	Proof factor	1.2
Height of barrier	1.06 m	No. of rams	2
Initials of tester(s)	TK	Proof test load	1.80 kN/m
Date tested	31/01/2024		
Gauge location	Pot 1 Opposite direction to load application. End span		

**OBSERVATIONS PRIOR TO TESTS**  
No defects observed.

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



Allowable deflection: 25.00 mm      Maximum deflection: 19.70 mm  
TEST CONCLUSION: **Pass**  
Tested in accordance with the load - deflection requirements of BS 6180:2011 'Barriers in and about buildings - Code of practice.'