

EASY GLASS[®]
GLASS ADAPTER
MOD 0761

Testing conducted by/at:

Q-railing Europe GmbH & Co.KG

Marie-Curie-Strasse 8-14

46446 Emmerich am Rhein

Germany

1. Introduction

This report describes tests conducted at the test site of Q-railing Europe GmbH & Co.KG on Easy Glass® Glass adapter MOD 0761, assembled with various dimensions as shown.

2. Test arrangement

Various barrier specimens were mounted on to a rigid concrete structure with a test rig from steel with sufficient strength to withstand loads applied to it.

For each test, load was applied to the glass in a hand railing height.

Load was measured with a load cell.

Mechanical indicators were used to measure the deflection of the barrier from its neutral position.

3. Materials

1. Glass adapter

Article-No. 13.0761.000.12 Glass adapter with base plate

2. Anchoring

Article-No. 19.4410.010.14 Highbond Anchor FHB II-A-L M10x95/10 A4

3. Inlay

Silicone rubber (transparent)

4. Glass

16,76 mm (8-0,76-8) laminated glass

21,52 mm (10-1,52-10) laminated glass

15 mm monolith glass

19 mm monolith glass

Technical Report

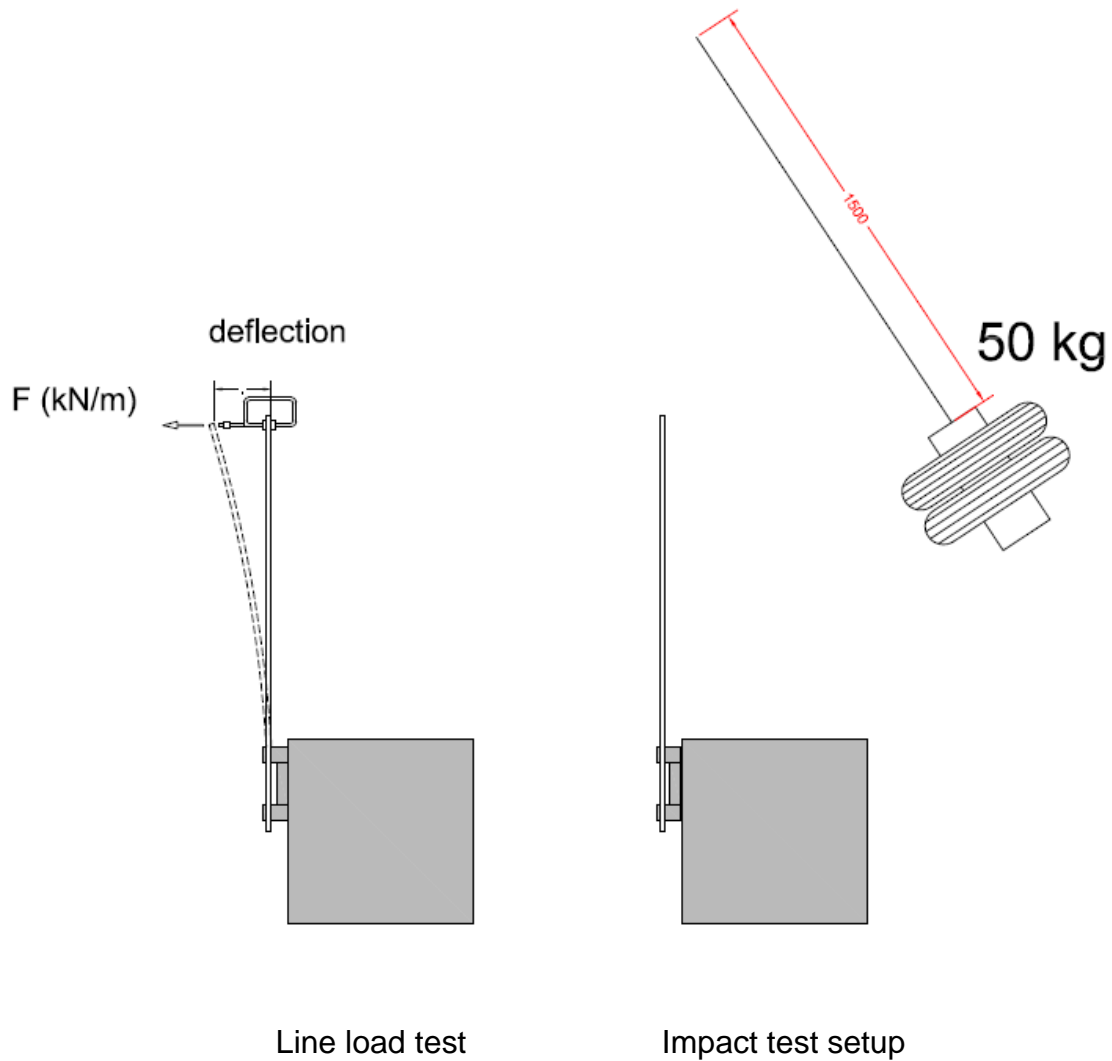
EASY GLASS® Glass adapter
MOD 0761

Report date: 15.11.2012

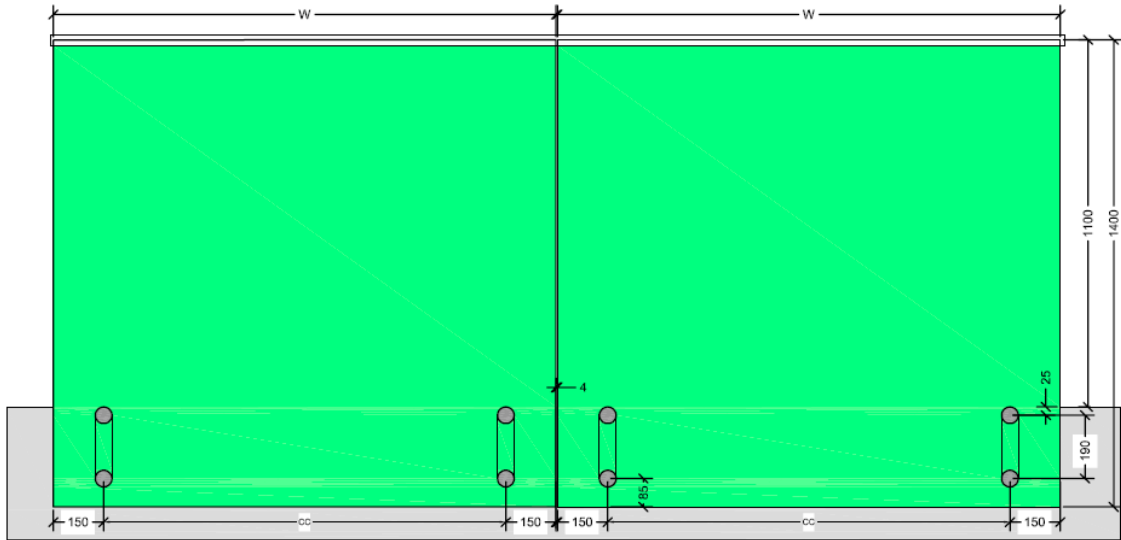
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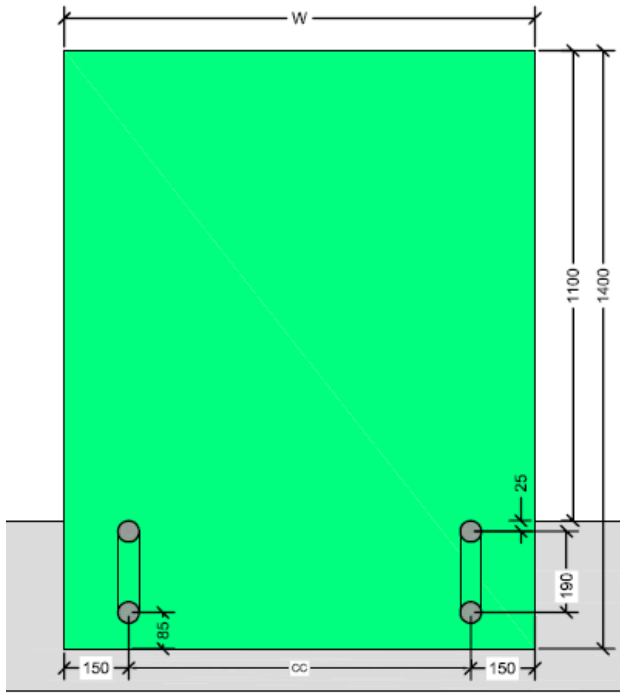
4. Arrangement of the test assembly



Test assembly 1 and 2:



Test assembly 3:



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5. Test results

Test assembly	Glass t mm	Glass n* x w x h mm	Glass adapter c.c.** mm	Barrier height mm	Line Load						Pendulum test fall height 700	Test assembly
					0,36 kN/m	0,74 kN/m	1,00 kN/m	1,20 kN/m	1,50 kN/m	2,00 kN/m		
					deflection at top of glass							
1	21,52	2x1500x1500	1200	1100	11,82	27,86	38,26	48,95	62,04	-	passed	
	21,52	2x1300x1500	1000	1100	10,80	25,10	36,60	45,95	59,40	-	passed	
	21,52	2x1100x1500	800	1100	11,43	25,20	35,40	43,90	50,72	-	passed	
2	16,76	2x1500x1500	1200	1100	19,30	43,33	59,50	73,90	-	-	-	
	16,76	2x1300x1500	1000	1100	18,30	42,73	59,90	-	-	-		
	16,76	2x1200x1500	900	1100	21,34	53,25	70,20	-	-	-	passed	
	16,76	2x1100x1500	800	1100	14,53	32,60	46,05	57,10	-	-	-	
	16,76	2x1000x1500	700	1100	20,00	37,00	53,30	69,00	-	-	-	
	16,76	2x900x1500	600	1100	18,10	35,10	48,53	53,32	73,60	-	-	
3	15	1000x1400	700	1100	10,52	21,75	29,78	36,36	-	-	-	
	15	1200x1400	900	1100	11,87	24,10	32,36	38,94	48,95	-	-	
	19	1200x1400	900	1100	6,25	13,61	19,24	23,89	30,86	-	passed	
	19	1000x1400	700	1100	5,68	12,16	16,75	20,44	26,26	35,99	-	

* n=number of panels

** c.c.= center to center distance

Comments:

The line load was applied to the top of the glass (=1.1 m). Pendulum impact is been tested with top rail on double panels.

6. General overview

Line load test



Impact test:

