

**EASY GLASS<sup>®</sup>**  
**GLASS ADAPTER**  
**MOD 0749**

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 0749, 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. 14.0749.500.12 Glass adapter variable Ø 50 mm, flat connection

### 2. Anchoring

Article-No. 19.4510.012.14 Inside thread anchor RG MI 16x90 M10, AISI

Article-No. 95.0671.035.14 Hexagon socket countersunk head screw

### 3. Inlay

Silicone rubber (transparent)

### 4. Glass

15 mm toughened

19 mm toughened

20.76 mm (10-0,76-10) laminated and toughened

17.52 mm (8-1,52-8) laminated and toughened

16.76 mm (8 -0,76-8) laminated and toughened

#### Technical Report

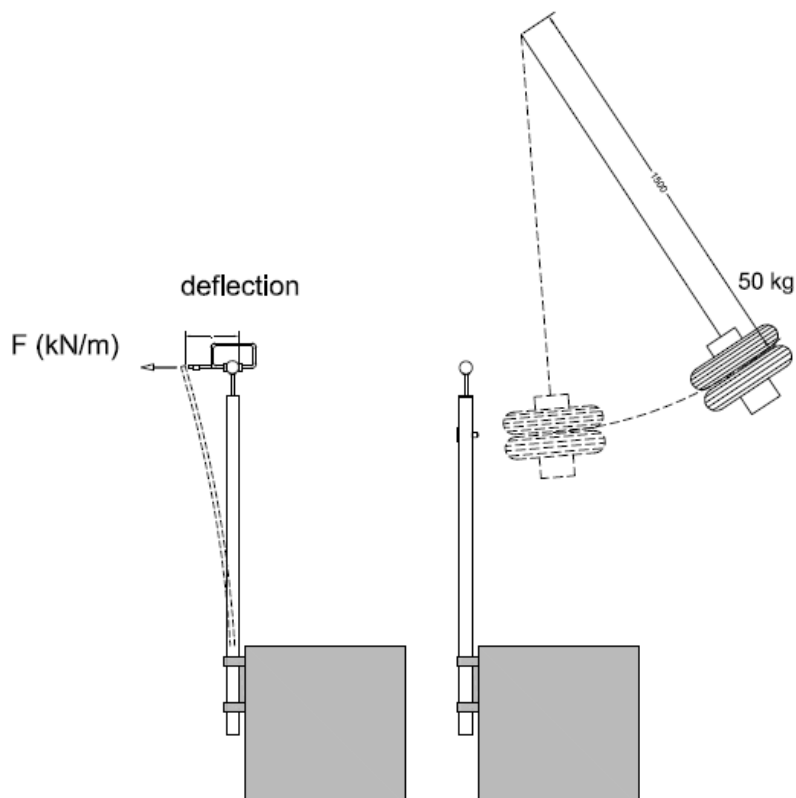
EASY GLASS® Glass adapter  
MOD 0749

Report date: 02.11.2012

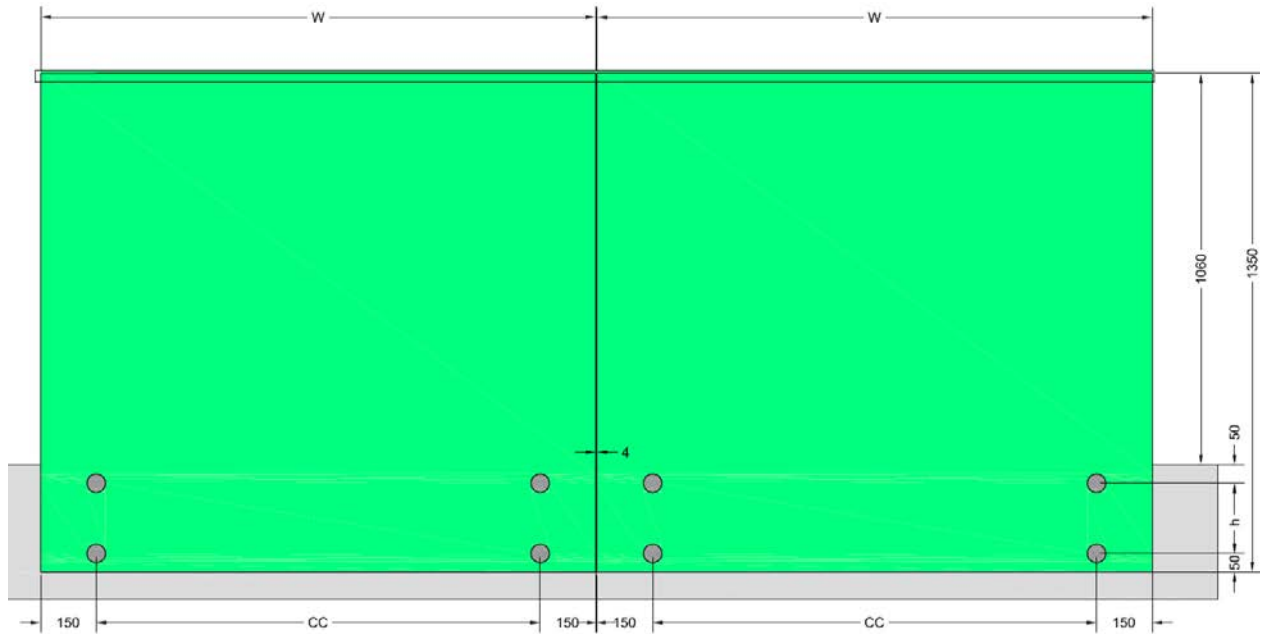
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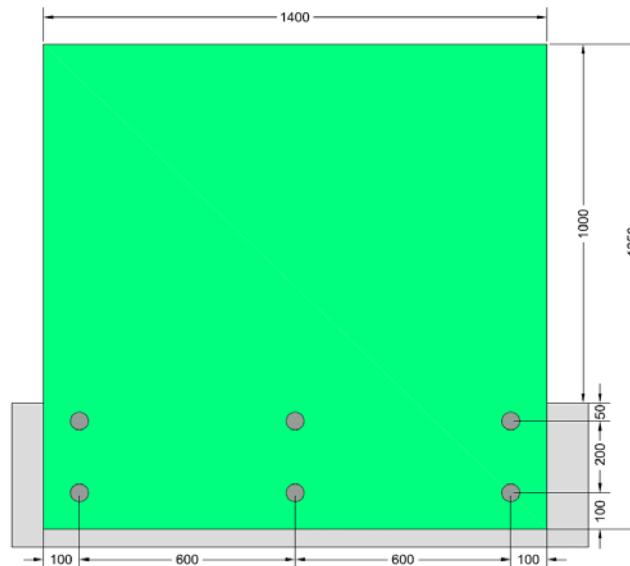
## 4. Arrangement of test assembly



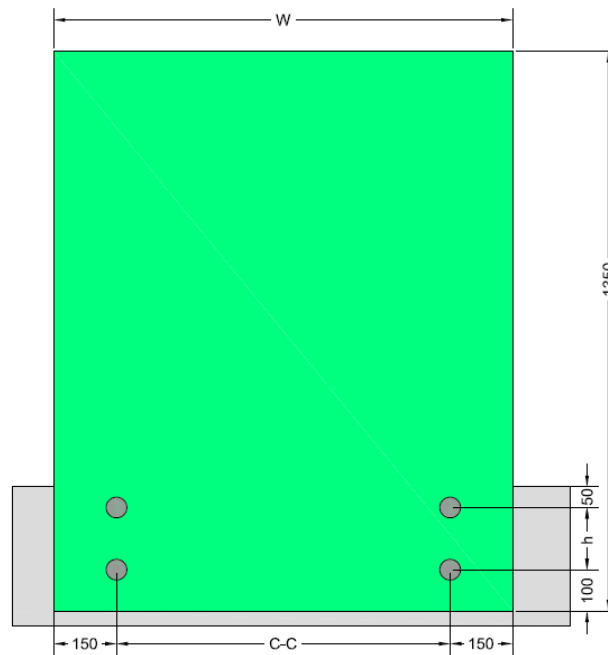
Test assembly 1:



Test assembly 2:



## Test assembly 3:



## 5. Test results

Test assembly	Glass T mm	Glass n*x w x h	Adapters cc* mm	Adapters h** mm	Line Load test						Pendulum test	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	3,00 kN/m		Fall height 700
					deflection at top of glass								
1	20,76	2x1100x1350	800	190	4,36	10,4	15,21	18,95	24,05	32,47	49,7	passed	
	20,76	2x1300x1350	1000	190	9,80	22,60	31,45	38,50	48,63	72,98	-		
	20,76	2x1500x1350	1200	190	10,00	22,80	33,47	41,90	53,12	74,00	-		
	16,76	2x900x1350	600	150	14,65	34,00	48,16	58,70	75,50	-			
	17,52	2x1300x1350	1000	200	19,26	42,27	58,20	70,20	-				
2	17,52	1400x1350	2x 600	200	14,16	31,19	44,00	54,53	68,00	-			
	15	1400x1350	2x 600	200	9,82	20,33	27,10	33,37	39,72	-			
3	15	1000x1350	700	150	11,92	26,49	36,03	43,36	-	-			
	15	1200x1350	900	150	16,81	32,34	42,60	-	-				
	19	1000x1350	700	150	6,82	16,09	22,33	27,07	34,23	-			
	19	1200x1350	900	150	12	21,08	27,59	32,25	-				
	15	1000x1350	700	190	11	23,74	32,26	38,79	-				
	19	1000x1350	700	190	5,63	13,28	18,59	22,54	28,35	passed			
19	1200x1350	900	190	6,74	14,49	19,91	24,21	30,33	passed				

\* cc = center to center distance

\*\* h = Adapters vertical distance

### Comments:

The loading was applied to the top of the glass at a height of 1.00 m and 1.10 m respectively above finished floor level.

## 6. General overview line load test

