Q-railing

Technical Report

EASY GLASS®
BASE GLASS CLAMP
MOD 6200

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® Base glass clamp MOD 6200, 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.

Laser distance sensors and digital indicators were used to measure the deflection of the barrier from its neutral position.

3. Materials

- Base glass clamps
  Article-No 14.6200.000.12 Easy Glass Base Glass Clamp
  Article-No 14.6200.100.12 Easy Glass In-floor Base Clamp
- Anchoring
  Article No 19.4212.150.14 High performance anchor Q SZ-SK 12/50
- Rubber inlay
  Article No 19.5064.015.00 Rubber inlay Easy Glass for MOD 6200
  Article No 19.5064.017.00 Rubber inlay Easy Glass for MOD 6200
- Glass
  15 mm toughened
  16.76 (8-0.76-8) laminated and toughened

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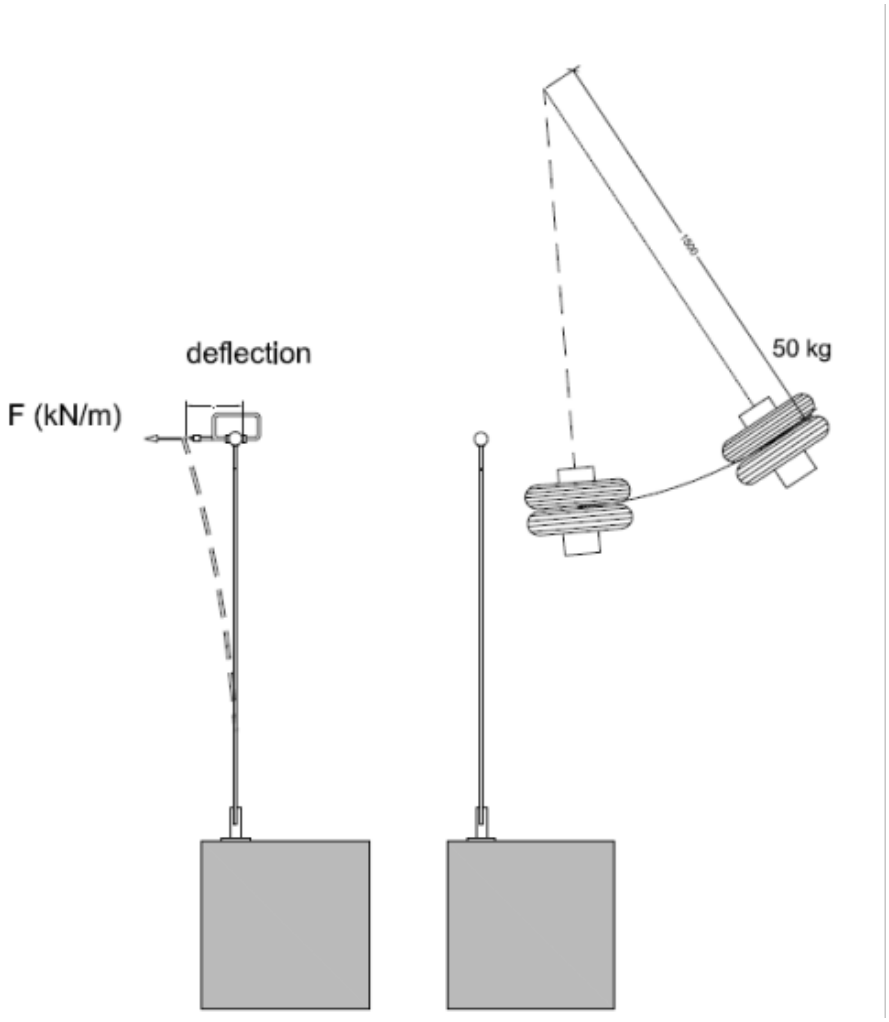
4. Arrangement of test assembly



Line load test Impact test

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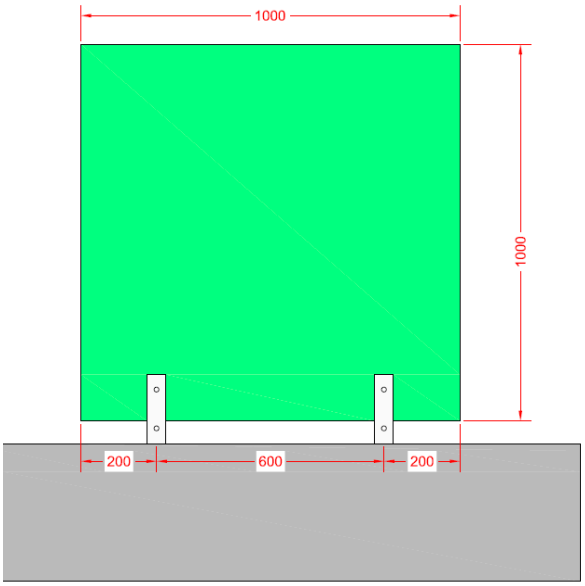
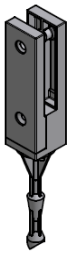
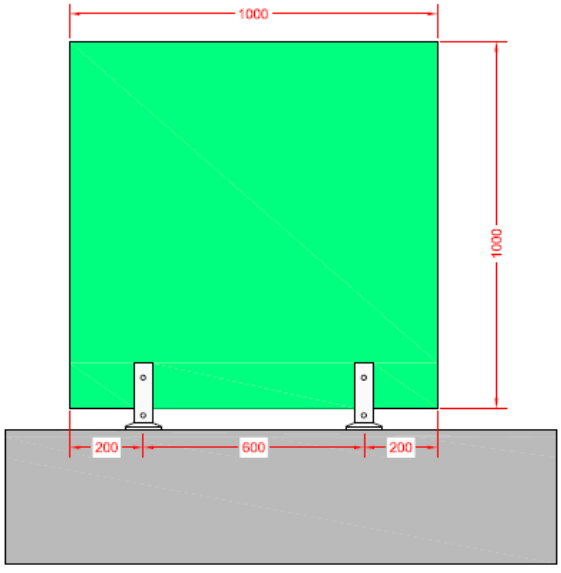
Test assembly 1: -in floor mount-





Test assembly 2: -top mount-



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5. Test results

					Line Load					Pendulum test	
Test assembly	Glass t mm	Dimension w x h mm	Adapter c.c* mm	Barrier height mm	0,36 kN/m	0,74 kN/m	1,00 kN/m	1,20 kN/m	1,50 kN/m	fall height 700	Base clamp
					deflection at top of glass						
1	16,76	1000x1000	600	1060	25,0	58,0	87,7	-	-	-	
2	15	1000x1000	600	1060	14,5	37,0	62,0	92,0	144,0	-	
	16,76	1000x1000	600	1060	17,18	41,46	64,40	70,00	-	passed	

* cc = center to center distance

Comments:

The loading was applied to the top of the glass at a height of 1.06 m above finished floor level. Impact test is been tested without top rail.

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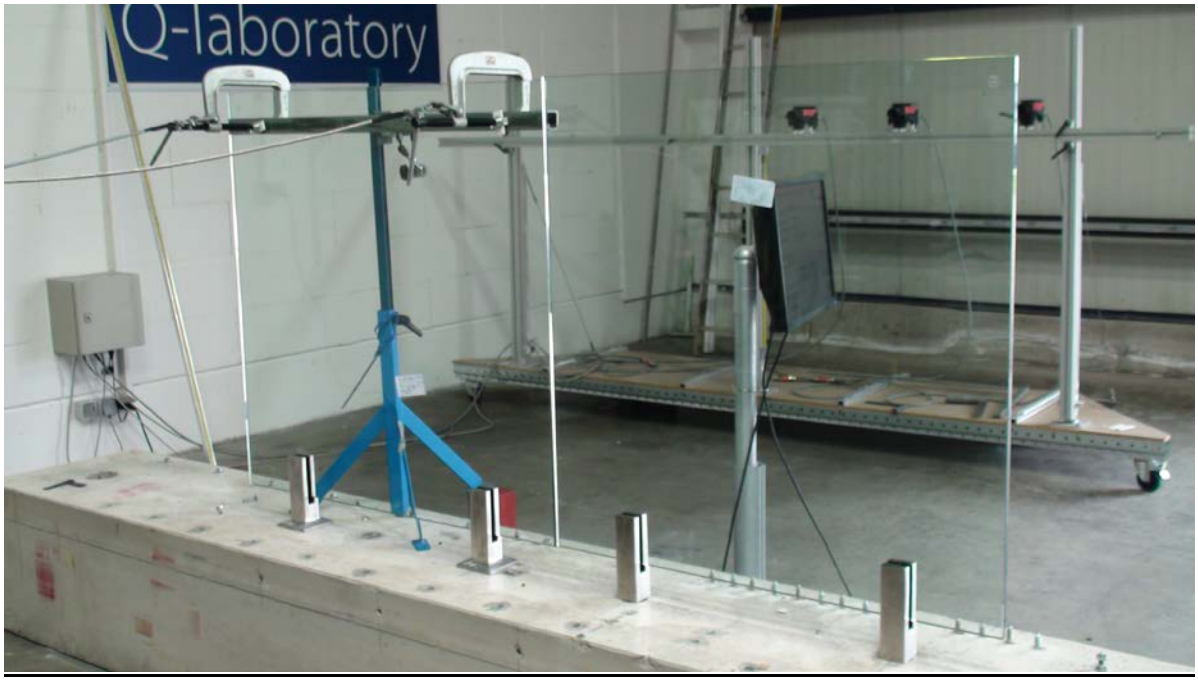
6. General overview line load test



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