



MTS Metallurgical Testing Services
ABN 54 122 133 331
3/52 Cocos Drive Bibra Lake Western Australia 6163
Tel 08 9418 6380 Fax 08 9434 1328

Test Report

To GR8 Glass Pool Fencing
15/51 Lancaster Rd, Wangara 6065
Order No. PAUL4

Report No. **MTS-21315-1 METF**
Issue Date 15/07/2015
Test Date 9/07/2015

Introduction

MTS Metallurgical Testing Services was engaged to perform load tests on a frameless glass balustrade to the requirements of AS/NZS 1170.1 - 2002.

Test Item(s) One (1) only Frameless Glass Balustrade with 38mm Round Slotted Tube Handrail supported on Square and Round Core Drilled "Bolt-through" and Square and Round Deck Mounted "Bolt-through" spigots.

Details

ID	Item/Heat No.	Dimensions/Type/Details
21315/01		1565mm Long x 12mm Thick x 970mm High toughened safety glass panel. 2205 Duplex stainless steel "Bolt-through" spigots. Core drilled spigots were fixed with Bostik Tech Flow HES grout and deck mounted spigots were fixed with 4 x Chemset Bolts.

Examinations & Tests

The details and procedure for the installation of the spigot fixings were observed and verified prior to testing. The test panel arrangement consisted of a three glass panel configuration using maximum width panels for worst case scenario. The centre glass panel was removed to simulate a breakage and the top rail and spigots were tested using downward and outward loading in accordance with AS/NZS 1170.1-2002 in the centre of the "broken" panel area.

Summary

The results of the tests COMPLIED with the requirements of AS/NZS 1170.1 - 2002.

Colin Lorrimar
Metallurgical Testing Manager

Results

Static Load Test

Test Specification AS/NZS 1170.1 - 2002 **Test Procedure** MTS-TP3.7 Load Tests of Protective Enclosures, Barriers and Fences

Specimen ID	Test Load (N)	Permanent Distortion (mm)	Observations	Assessment
Top Rail Outwards Test	600	1.0	No signs of damage or loosening.	COMPLIES



Top Rail Downwards Test

600

0.0

38mm Round tube under the test
 No signs of damage or loosening.

COMPLIES



38mm Round tube under the test

Requirements

No breakage or signs of fracture or loosening of any part.