

Project: LOAD TESTING OF RAIL CLIPS

Certificate Number: BRS 0001344/16

Client: Gantry Railing Limited
Hempstead, Gloucester, GL2 6HS

Office: Bristol

Client's Order Number: 70613

Date: 10th August 2000

Order Status: Complete

Inspection Dates

First: 3rd June 1997

Final: 3rd June 1997

This certificate is issued to Gantry Railing Limited, to certify that the undersigned Surveyor to this Society did, at their request attend at their Sudmeadow Road Works, Gloucester for the purpose of witnessing the testing of the undernoted rail clips.

Gantry Railing Ltd., Clip Type 7120/10
Clip Material to BS 2789 1995 Grade 500/7 (SG Iron)
Bolt Material to BS 3692 1967 Grade 8.8

Test Procedure.

The Clip was subjected to Lateral Tests in accordance with Gantry Railing Limited Test Procedure No: TESTBS5950 Issue 4. The procedure is based on BS5950 Part 1, 1985 (pages 10, 91 & 92).

The Clip was bolted onto a test rig simulating normal fixing conditions with a measured torque of 390NM.

Pre Load Test. (Design Load)

The Clip was subjected to a pre-load of 75.0kN for one minute duration as a preliminary bedding down load.

Acceptance Test. (1.3 x Design Load)

A test load of 97.5kN was applied to the clip in gradual increments.

Strength Test (1.6 x Design Load)

The acceptance test load was increased in gradual increments to 120.0 kN.

Test Result

The Pre Load Test, Acceptance Test and Strength Test were all considered acceptable, there being no sign of mechanical damage or distortion on either the Gantry Rail Clip or screwed fastener.

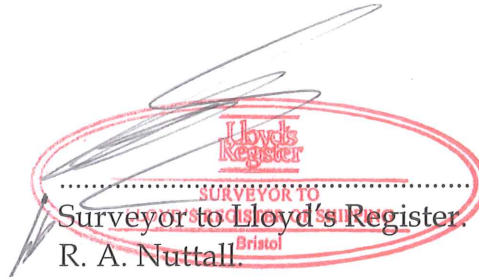
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Failure Load.

In the same way as above the load was increased in gradual increments, failure occurred at 150kN. Failure was due to the M20 bolt shearing, there was no evidence of distortion to the clip.



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Surveyor to Lloyd's Register.
R. A. Nuttall.
Bristol