

*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 on the 15th February 1995, for the purpose of witnessing the testing of the undernoted Gantry Railing Ltd., Clip in accordance with the requirements of Gantry Rail Limited Order No: B2309 on Lloyd's Register, Bristol.*

Gantry Railing Ltd., Type 3224 Clip  
Clip Material to BS 2789 1985 Grade 500/7 (SG Iron)  
Bolt Material to BS 3692 1967 Grade 8.8

**Test Procedure.**

The above Clip was subjected to Lateral Tests in accordance with Gantry Railing Limited Test Procedure No: TESTBS5950 Issue 4 dated 20.10.94. The procedure is based on BS5950 Part 1, 1985 (pages 10, 91 & 92).

The Clip was bolted down onto a test rig simulating normal fixing conditions with a measured torque of 600NM.

**Pre Load Test. (Design Load)**

The Clip was subjected to a preload of 250kN for one minute duration as a preliminary bedding down load.

**Acceptance Test. (1.3 x Design Load)**

A test load of 325kN was applied in gradual stages.

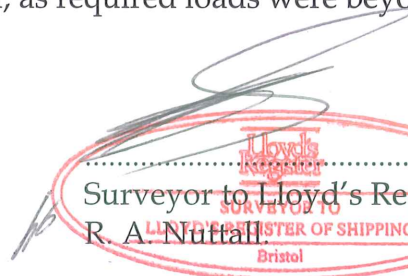
**Strength Test (1.6 x Design Load)**

The acceptance load test was increased in gradual stages to 400 kN.

The Pre Load Test, Acceptance Test and Strength Test were all considered acceptable. There was no sign of mechanical damage or distortion on either the Rail Clip or the screwed fixing.

**Failure Load.**

No failure load test was completed, as required loads were beyond the range of the test apparatus.

  
Surveyor to Lloyd's Register.  
R. A. Nuttall  
LLOYD'S REGISTER OF SHIPPING  
Bristol