



Test Certificate

Office: Lloyd's Register EMEA - Energy, Coventry

Date: 04 March 2010

This certificate is issued to **Gantry Railing Limited** to certify that the undersigned Surveyor to Lloyd's Register EMEA did at their request attend at their **Sudmeadow works, Gloucester** on **17 November 2008 to 18 November 2008** for the purpose of witnessing the testing of the **undernoted Gantry Railing Limited Clip** in accordance with the requirements of **Gantry Railing Limited Order No. 6762** on Lloyd's Register EMEA.

Gantry Railing Limited Type 3116/10 Clip
Bolt Material to BS EN ISO 898-1 Grade 8.8 (A325)
Nut Material to BS EN 20898-2 1994 (ISO 898-2:1992) Grade 8

Design Load 38 KN

Test Procedure

The above Clip was subjected to lateral testing in accordance with Gantry Railing Limited Test Procedure No. TESTBS5950. The procedure is based on BS 5950 Part 1: 2000 – Section 2.1.2.5 and Section 7.

The Clip was bolted down onto a test rig simulating normal fixing conditions with a measured torque of 200 NM.

Pre Load Test (Design Load)

The Clip was subjected to a pre-load of 38 KN for one minute duration for a preliminary bedding down load.

Proof Test (1.3 x Design Load)

A test load of 49.4 KN was applied in gradual stages.

Strength Test (1.6 x Design Load)

The proof load was increased in gradual stages to 60.8 KN

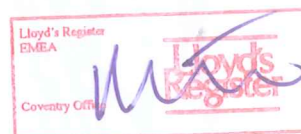
Proof / Strength Test Result

The pre-load test, proof test and strength test were all considered acceptable. There was a slight distortion of the bolt, there was no indication of mechanical damage or distortion on the Clip.

Failure Load

The strength load was increased gradually to 76 KN (2 x design load). No failure occurred. Upon examination the Clip had an indication of a pressure mark and the bolt was distorted, otherwise there was no visual sign of mechanical damage or distortion.

Note: All measuring equipment used during the tests held current calibration status.



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

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