

# **Lloyd's Register** Test Certificate

Office: **Lloyd's Register EMEA - Energy, Coventry**

Date: **29 April 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 8119/15 Clip  
Bolt Material to BS EN ISO 898-1 Grade 8.8  
Nut Material to BS EN 20898-2 1994 (ISO 898-2:1992) Grade 8

Design Load 130 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 250 Nm.

## Pre Load Test (Design Load)

The Clip was subjected to a pre-load of 130 KN for one minute duration for a preliminary bedding down load.

## Proof Test (1.3 x Design Load)

A test load of 169 KN was applied in gradual stages.

## Strength Test (1.6 x Design Load)

The proof load was increased in gradual stages to 208 KN.

## Proof / Strength Test Result

The pre-load test, proof test and strength test were all considered acceptable. There was no indication of mechanical damage or distortion on either the Clip or the screwed fixing.

## Failure Load

The strength load was increased gradually to 260 KN (2 x design load). No failure occurred. Upon examination there was no indication of mechanical or visual damage.

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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