This certificate replaces certificate number COV1413509/04A1, issued 12 September 2014, which is hereby cancelled.

Certificate no: Page 1 of 1 COV1413509/04A2



Office: Lloyd's Register EMEA - Energy, Coventry

Date: 21 October 2014

This Certificate is issued to Gantry Railing Limited to certify that the undersigned Surveyor did, at their request, attend their Sudmeadow Works, Gloucester on 02 September 2014 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. 13436.

Gantry Railing Limited Type 7120. M20 Bolt Material to BS EN ISO 898-1 Grade 10.9 M20 Nut Material to BS EN ISO 898-2 Grade 10.

Design Load 100 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 600 Nm.

Pre Load Test (Design Load)

The Clip was subjected to a pre-load of 100KN for one minute duration for a preliminary bedding down load.

Acceptance Test Load (1.3 x Design Load)

A test load of 130KN was applied in gradual stages.

Strength Test Load (1.6 x Design Load)

The proof load was increased in gradual stages to 160KN.

Proof / Strength Test Result

The pre-load test, proof test and strength test to 1.6 x Design Load were all considered acceptable.

Failure Load:

At 196KN there was a sudden and rapid failure of the bolt. There was no indication of distortion of the upper or lower part of the clip. There was evidence of thread pressure marks in front of the lower clip slot.

Calibration status of test equipment verified and traceability to UKAS verified.



Stephen Meredith Surveyor to Lloyd's Register EMEA

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