

Job No. 236755

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For the attention of Mr Dave Bridge

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Date: 21st February 2014

Dear Dave.

## TEST CARRIED OUT TO GUARD RAIL ON BEHALF OF AKM FABRICATIONS

Vertical post made up from 47.6mm dia tube with wall thickness of 2mm, welded to 4mm base plate.

Base plate 375mm x 400mm. Height of post 500mm.

Over top of vertical post fits 50mm dia tube c/w 2 off cross sections to house top and bottom horizontal posts.

Horizontal post made up from 47.6mm dia tube with wall thickness of 2mm, 2220mm long.

The whole assembly was riveted to a piece of seam roof sheet which was weighted down using 2 off 1250kg weights.

Using a calibrated 500kg load link, pull lift and slings were fixed to a dead weight so to apply load.

D.T.I's were set up at point A (vertical post) and point B (middle of the horizontal post at 1100mm high). A load of 67kg was applied to first point A and then point B.

Reading using the D.T.I. was taken and the load was applied for 1 minute. The load was removed and D.T.I. checked to make sure zeroed and guard rail examined to make sure no permanent deformation.

Result as follows:

DEFLECTION

LOAD APPLIED

POINT A

POINT B

0.66 KN

67.3KG

8.0MM

26.0MM

0

RECOVERED

**RECOVERED** 

Note: Calculation to determine load applied

300 N/M

2.2MTR (length between vertical post) = 0.66KN converts to

67.3kg

Yours sincerely

For Lloyds British Testing Ltd

Test & Inspection Technician