



MECHANICAL TESTING REPORT

Report No: 44231-ME-01
Date of Issue: 24-04-2017
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Client: Acusafe
Attention: Danny Klein
Address: PO Box 621
Beenleigh, Qld 4207
Order Number: COD
Job Description: Load Test of Tube Samples
Test Piece Dimension: 40NB x 3mm W.T.
Identification:
1: Slide Bolt Fitting: Kag Tube - Carbon Steel – Not Further Specified
2: Kag Tube - Carbon Steel – Not Further Specified
3: Kag Tube - Carbon Steel – Not Further Specified
4: Original Tube - Carbon Steel – Not Further Specified
Test Specification: Client Requirements
Date of Examination: 21-04-2017

Luke Davies
Laboratory Technician
Mechanical Testing

Note:

1. All work is subject to our standard terms and conditions, available on our website <http://www.alsglobal.com/en/Our-Services/Industrial/Asset-Care/Downloads>
2. Test plates and specimens will be disposed of 30 days from issue date of this report unless other arrangements have been made.
3. This report is based on information supplied by the client and cannot be substantiated.



TEST PROCEDURE for Test Setup 1

Each Tube was placed in the 3-point bending jig that was placed on the bottom platen of the Shimadzu 300kN Universal Testing Machine. The Rollers of the Bending Jig were placed 415mm apart at the centres. A load was gradually applied with a 128mm former at equal distance between the rollers. The maximum load achieved was recorded.

Test Setup 1

Test ID	Identification	Maximum Load	Increase over Original Tube
1	Slide Bolt Fitting - Kag Tube	37.35kN	73%
2	Kag Tube	29.11kN	35%
3	Kag Tube	26.44kN	22%
4	Original Tube	21.59kN	N/A



Test Setup 1



TEST PROCEDURE for Test Setup 2

Each Tube was cut to 100mm in length and placed between the hardened plates on the bottom and top platens of the Shimadzu 300kN Universal Testing Machine. A load was gradually applied. The load at which the first sign of deformation occurred was recorded.

Test Setup 1

Test ID	Identification	Load at first sign of deformation	Increase over Original Tube
3	Kag Tube	22.0kN	29%
4	Original Tube	17.0kN	N/A



Test Setup 2



Samples - As Received