



Element Materials Technology P: +44(0)114 272 6581
56 Nursery Street F: +44(0)114 272 3248
Sheffield Bank: HSBC
South Yorkshire Acct: 44517393
S3 8GP UK Sort Code: 40-38-04
info.sheffield@element.com V.A.T. No. 174 3762 90
element.com Company Reg. No. 76383

VR Access Solutions Limited
1 Swan Courtyard
Charles Edward Road
Birmingham
B26 1BU

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Element location: Sheffield

Report On the Testing of Swivel Girder Couplers in accordance with AS1576.2 :2009

Element Materials Technology Sheffield
Authorised by: Lee Mangham - Testing & Operations Manager

Signature:

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Introduction

The following report details tests performed on swivel girder couplers in accordance with the Australian standard AS1576.2. Sent for testing by VR Access Solutions.

Description of samples

Description: Swivel Girder coupler as per drawing shown at the end of this report.
Marks: NYF046 USE IN PAIRS EV0914F

Method of test

All testing was performed in accordance with the stated appendix of AS 1576.2 :2009. Testing was done in a 100kN Loading frame.

Results

Test 1

Testing in accordance with Appendix L - STRENGTH TEST FOR FLANGE CLAMP

Image of test setup for illustration purposes only.



Results

Test No	Load Applied	Permenant Set
E1286	30.0 kN	Zero
E1287	30.0 kN	Zero
E1288	30.0 kN	Zero
E1289	30.0 kN	Zero
E1290	30.0 kN	Zero
E1291	30.0 kN	Zero

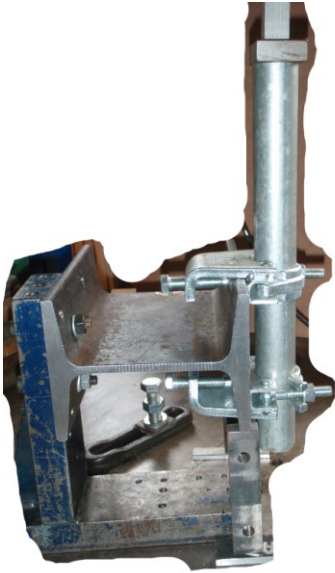
Tested by J Valentine – Test Technician

Test Pass

Test 2

Testing in accordance with Appendix M - SLIP TEST THROUGH RIGID AND SWIVEL FLANGE CLAMPS

Image of test setup for illustration purposes only.



Results

Test No	Load Applied	Amount of Slip
E1292	12.5 kN	Zero
E1293	12.5 kN	Zero
E1294	12.5 kN	Zero
E1295	12.5 kN	Zero
E1296	12.5 kN	0.4mm
E1297	12.5 kN	0.3mm

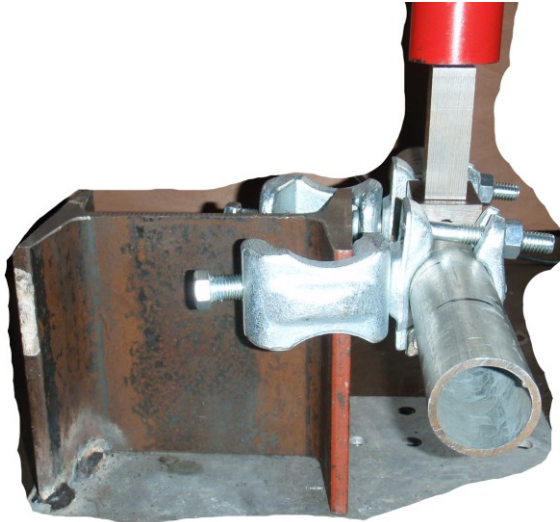
Tested by J Valentine – Test Technician

Test Pass

Test 3

Testing in accordance with Appendix N - SLIP TEST OF RIGID AND SWIVEL FLANGE CLAMPS

Image of test setup for illustration purposes only.



Results

Test No	Load Applied	Amount of Slip
E1298	12.5 kN	Zero
E1299	12.5 kN	Zero
E1300	12.5 kN	Zero
E1301	12.5 kN	Zero
E1302	12.5 kN	Zero
E1303	12.5 kN	Zero

Tested by J Valentine – Test Technician

Test Pass

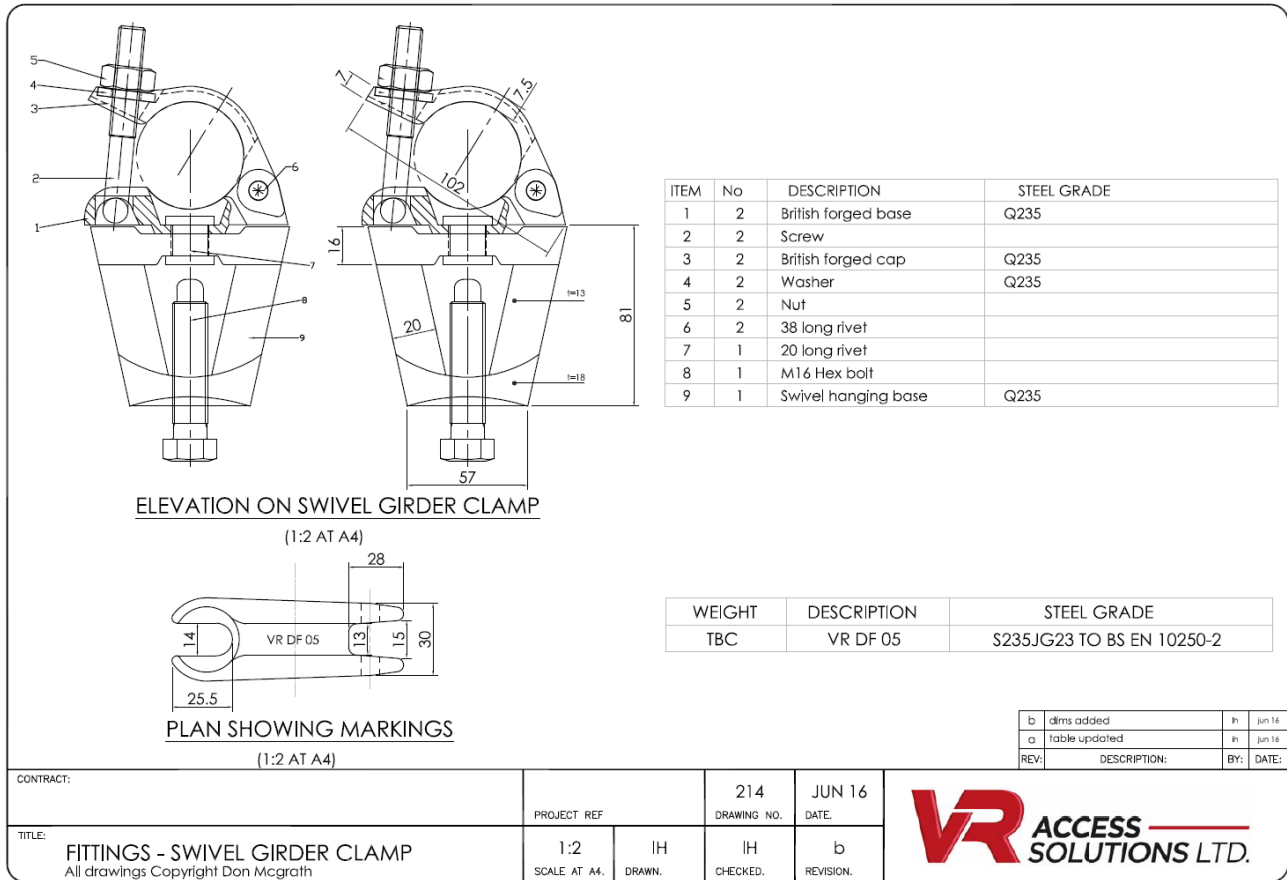
Conclusion

The couplers have passed the relevant sections of the standard as shown above.

Photograph of coupler



Drawing



End of Report