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Specification: AS1576.2:2009
Element location: Sheffield

Report On the Testing of 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 girder couplers in accordance with the Australian standard AS1576.2. Sent for testing by VR Access Solutions.

Description of samples

Description: Girder coupler as per drawing shown at the end of this report.

Marks: AS 1576 VRDF05 08/15 RS

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	Permanent 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

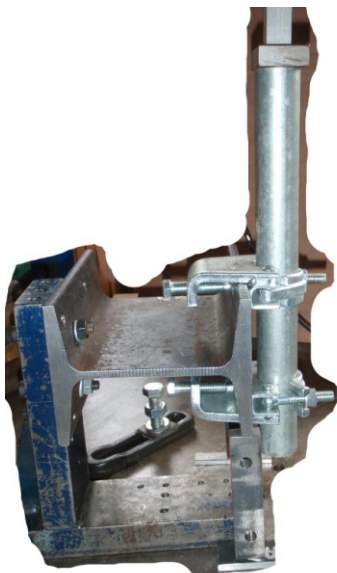
Tested by J Valentine – Test Technician

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	0.3mm
E1293	12.5 kN	0.3mm
E1294	12.5 kN	0.2mm
E1295	12.5 kN	0.3mm
E1296	12.5 kN	0.4mm
E1297	12.5 kN	0.3mm

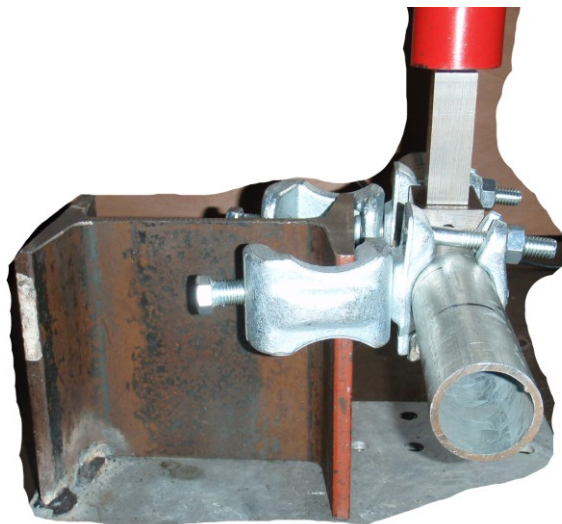
Tested by J Valentine – Test Technician

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

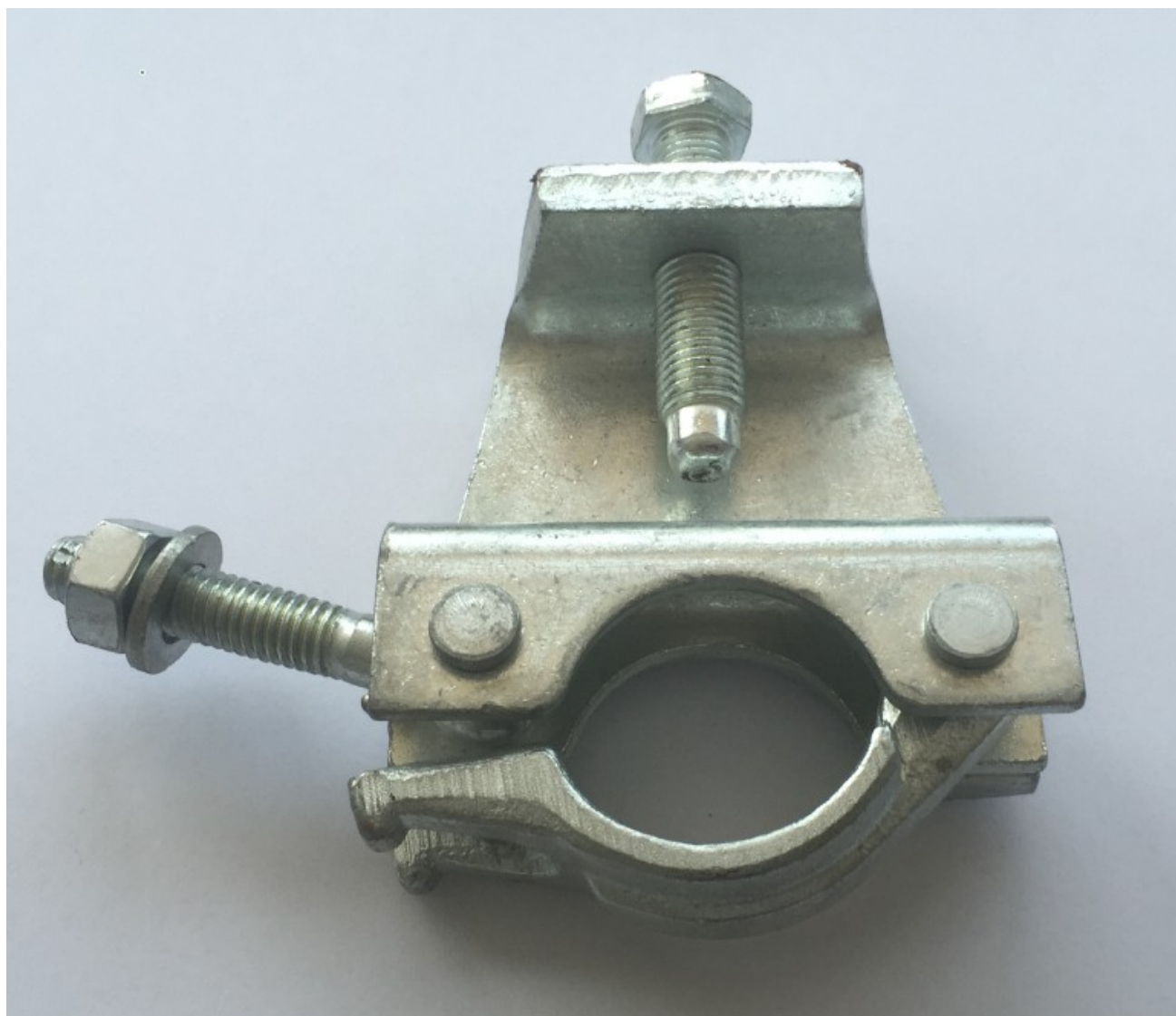
Test Pass

Conclusion

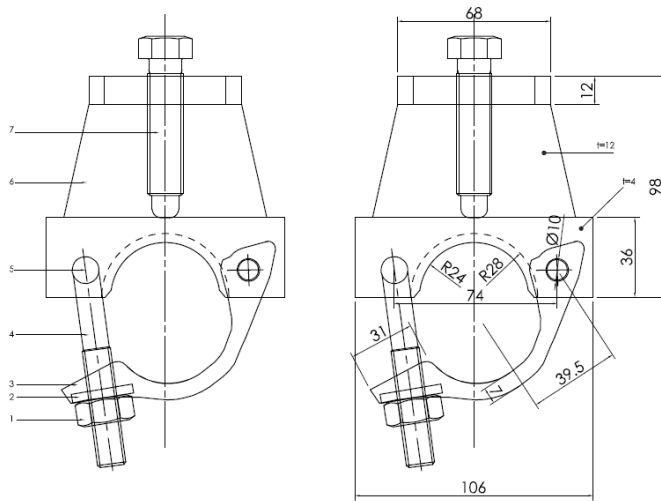
The couplers have passed the relevant sections of the standard as shown above.

Photograph of coupler



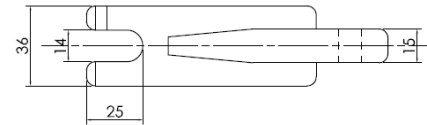


Drawing



ELEVATION ON GIRDER CLAMP

(1:2 AT A4)



PLAN SHOWING MARKINGS

(1:2 AT A4)

ITEM	No	DESCRIPTION	STEEL GRADE
1	1	Nut	
2	1	Washer	Q235
3	1	Cap	Q235
4	1	Eye Bolt	Q235
5	2	M10 Rivet	
6	1	L Part	
7	1	Bolt	

WEIGHT	DESCRIPTION	STEEL GRADE
TBC	VR DF 05	S235JG23 TO BS EN 10250-2

REV:	DESCRIPTION:	BY:	DATE:
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CONTRACT:	PROJECT REF	215	JUN 16
TITLE:	1:2	IH	IH
FITTINGS - SWIVEL GIRDER CLAMP	SCALE AT A4:	DRAWN.	CHECKED.
All drawings Copyright Don McGrath			REVISION.



End of Report