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Mechanical Testing Laboratory Report

Customer: BSL Australia Pty Ltd
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Contact: Gurmeet Singh
Order Number: Gurmeet

**Bureau Veritas Report
Number:** **MT1974**
Bureau Veritas Contact: Ronnie James
Date: 7/01/2014

Description: Load Testing of Single Double Coupler

Test Specimen Identification

1) Double Coupler (1 Item)

Manufacturers Identification

1576.2.2009
BSL
AS/NZSD08-13

Comments: Tested in accordance with AS1576.2 - 2009

Appendix A
Appendix B

Ronnie James
Materials Testing Lead

Results Summary

<u>Fitting Type</u>	<u>Test Appendix Reference</u>	<u>Compliance</u>
Double Coupler (Item 1)	Appendix A	Complies
Double Coupler (Item 1)	Appendix B	Complies



Slip Test for Right – Angle Double Coupler
Appendix A

Test method: AS/NZS1576.2-2009

Machine Speed: 3mm/min

Test Machine: E6199 (500kN)

Date: 7/01/2014

Sample #: **1**
 Type of Coupler: **Double Coupler**
 Manufacturer's Identification: **1576.2.2009 BSL AS/NZSD08-13**
 Test Orientation: **Side A Bolt on Top**

Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Recorded Slip (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		12.5	1	
Before Load				
After Load				0.1

Test Orientation: **Side A Bolt facing down**

Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Recorded Slip (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		12.5	1	
Before Load				
After Load				0

Test Orientation: **Side B Bolt on Top**

Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Recorded Slip (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		12.5	1	
Before Load				
After Load				0

Test Orientation: **Side B Bolt facing down**

Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Recorded Slip (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		12.5	1	
Before Load				
After Load				0



Sample 1.

Comments:

Double Coupler Item 1 achieved the minimum requirement for this item in accordance with section 4 of AS 1576.2-2009 and clause 4.1.3 is the double coupling shall not slip more than 6mm at its contact

Results:

Item 1 has complied with **AS1576.2-2009**

Distortion Test For Right – Angle and Double Coupler
Appendix B

Test method: AS/NZS1576.2-2009

Machine Speed: 3mm/min

Test Machine: E6199 (500kN)

Date: 7/01/2014

Sample # **1**
 Type of Coupler: Double Coupler
 Manufacturer's Identification: **1576.2.2009 BSL AS/NZSD08-13**
 Test Orientation: Side A Bolt on Top

Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Distortion (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		30	1	
Before Load				450
After Load				431
Maximum Distortion				19

Test Orientation: Side A Bolt facing down

Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Distortion (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		30	1	
Before Load				400
After Load				374
Maximum Distortion				26

Test Orientation: Side B Bolt on Top

Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Distortion (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		30	1	
Before Load				422
After Load				384
Maximum Distortion				38

Test Orientation: Side B Bolt facing down

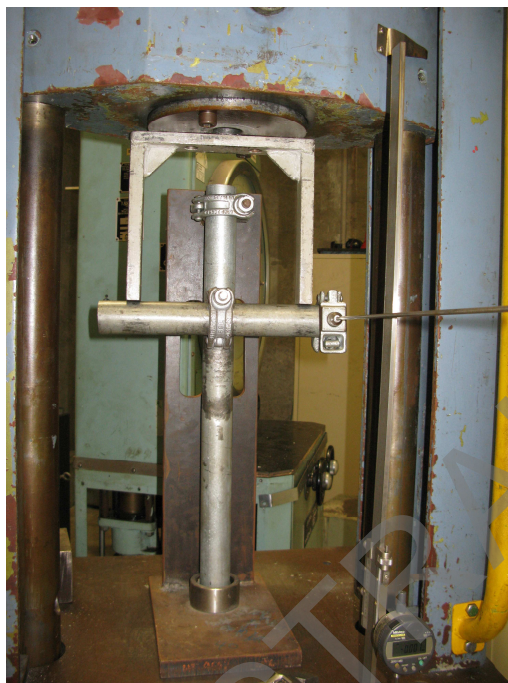
Double Coupler	Torque (Nm)	Applied Test Load(kN)	Test Duration (Minutes)	Distortion (mm)
Initial Torque	54			
Pre Load		6	1	
Re Torque	54			
Test load		30	1	
Before Load				412
After Load				386
Maximum Distortion				26

Comments:

Double Coupler **Item 1** achieved a final distortion; 19mm, 26mm, 38mm and 26mm. The minimum requirement for this item in accordance with section 4 of AS 1576.2-2009 and clause 4.1.2 the coupling shall not distort more than 125mm as indicated by the pointer.

Results:

Double Coupler has complied with **AS1576.2-2009**



Sample 1.