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## Mechanical Testing Laboratory Report

**Customer:** HOBSON ENGINEERING CO PTY LTD **Intico Report Number:** **MT5569**  
**Address:** PO BOX 1554 **Intico Contact:** John Carroll  
CANNING VALE WA 6970 **Date:** 29/03/2007  
**Contact:** Peter Hobson  
**Order Number:** 2207

**Description:** Fastener testing on six (6) only sampson rods to AS/NZS 4291.1 – 2000 Property Class 8.8 & Hobson Specification TP3

### Test Specimen Identification

- 1) M20 x 1000 HDG Sampson Rod, Heat# J3-10193
- 2) M24 x 1000 HDG Sampson Rod, Heat# J3-10175
- 3) M10 x 1000 Plain Sampson Rod, Heat# J3-10166
- 4) M12 x 1000 Plain Sampson Rod, Heat# J3-10168
- 5) M16 x 1000 Plain Sampson Rod, Heat# J3-10169
- 6) M36 x 1000 Plain Sampson Rod, Heat# J3-10136

The results from the following tests comply with the requirements of  
**AS/NZS 4291.1 – 2000 Property Class 8.8 & Hobson Specification TP3**

*Tensile and proof load testing (bolt or stud)*



Sid Williams  
Mechanical Testing Signatory  
29<sup>TH</sup> March 2007

## Stud Proof Load Test

Test Method: AS/NZS 4291.1 - 2000

Test Machine: 44604 (2000kN)

Machine Speed: 3mm/min

Test Date: 28/03/07

ID	Size	Test	Proof Load (kN)	Initial Length (mm)	Final Length (mm)	Change (mm)	C/DNC
1	M20	Initial	147.0	3.814	3.817	0.003	C
		Retest	N/A				
2	M24	Initial	212.0	3.798	3.802	0.004	C
		Retest	N/A				
3	M10	Initial	33.7	3.828	3.830	0.002	C
		Retest					
4	M12	Initial	48.9	3.998	3.999	0.001	C
		Retest					
5	M16	Initial	91.0	3.569	3.572	0.003	C
		Retest					
6	M36	Initial	490.0	5.464	5.468	0.004	C
		Retest					

## Stud Tensile Test

Test Method: AS/NZS 4291.1 - 2000

Test Machine: 44604 (2000kN)

Machine Speed: 3mm/min

Test Date: 28/3/07

ID	Size	Minimum Failure Load (kN)	Actual Failure Load (kN)	Tensile Strength (Mpa)	Failure Location	C/DNC
1	M20	203.0	239.0	976	Thread	C
2	M24	293.0	315.0	892	Thread	C
3	M10	46.4	53.0	914	Thread	C
4	M12	67.4	74.0	878	Thread	C
5	M16	125.0	132.5	844	Thread	C
6	M36	678.0	777.5	952	Thread	C