

✓ NDT & Inspection

✓ Hydrostatic testing

✓ Weld qualification

✓ Concrete testing

Mechanical testing

- Metallurgical services
- Chemical analysis & PMI
- ✓ Pressure plant inspection

## Load Test Report

Report Number	LB23-1709	Test Date	14/12/2023	
Customer	SHS Cleats			
Customer Address	Level 4 South Tower 339 Coronation Drive, Milton, QLD 4064			
Requested By	Bruce Delahunty Purchase Order TBA			
Accredited Laboratory	LMATS Brisbane Laboratory			
Job Description	Load testing of Cleats			
Identification	Refer to Table 1. below			
Material Specification	Carbon steel			
Test Specification	Client's requirement - Report findings			
Test Method	Client's specification			
Testing rate	5mm/mins			
Test Equipment	UTM A/N: L4600			
Discontinuities	Nil			
Test Restriction	Nil			
Test Technician	Gyu Tae No			
Test Results	Refer to the following summary and details on the following pages. The tests results are to be evaluated by the client			

## Table 1. Sample Details & Identification

Specimen	SHS Size (mm)	Туре	No of Teks	Fastening	Other
1	75	Corner	4	Tek only	Timber
2	75	Corner	4	Tek only	
3	75	Corner	5	Tek only	
4	89	Corner	6	Tek only	
5	75	Corner	4	Tek & Weld	NA
6	89	Corner	5	Tek & Weld	NA
7	89	Corner	6	Tek & Weld	NA
8	75	Corner	4	Weld Only	
9	75	Corner	5	Weld Only	
10	89	Corner	6	Weld Only	

			<b>Signatory</b> [Mechanical and Mechatronics Eng.]	[Signatory sign] [Gyu No] 15/12/2023
Format no. MF-RP-42 (I1,R6)			LB23-1709 SHS CLE	ATS Report, Page 1 of 3
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## Table 2. Results of test

Specimen	No. of Teks	Max Breaking Force [kN]	Allowable Force (0.7xMax Breaking Force) [kN]	Comments
1	4	34	23.8	Tek screw sheared
2	4	37	25.9	Tek screw sheared
3	5	48	33.6	Tek screw sheared
4	6	72	50.4	Tek screw sheared
8	4	176	123.2	Post bended & slipped, Weld & Cleats OK
9	5	217	151.9	Post bended & slipped, Weld & Cleats OK
10	6	207	144.9	Post bended & slipped, Weld & Cleats OK



Figure 1. General view of the test setup and before testing (Tek only)



Figure 2. General view of the specimen after testing (Tek only)





Figure 3. General view of the test setup and before testing (Weld only)





Figure 4. General view of the specimen after testing (Weld only)

## Notes

- 1. All test and inspection items will be discarded after 6 weeks, unless retrieved by the client's representative.
- 2. Samples, identification of samples and all job specific details were supplied by the client.
- 3. Any stated nominal pipe sizes and nominal thickness of the material were provided by the client.

4. Where applicable, the Measurement Uncertainty (MU) applies to the test results as per LMATS procedure. MU can be obtained by contacting one of the LMATS ISO 17025 accredited laboratory.

5. If this report does not specify acceptance criteria, then the test or inspection results should be referred to a competent authority for further action.

6. This report shall not be reproduced except in full without approval of the issuing laboratory to ensure that parts of a report are not taken out of context. The client or their representatives shall not edit this report.

7. LMATS or its professional indemnity insurance provider do not indemnify the contents within this report or the conformity of a tested product unless the invoice for the reported work is paid in full within the agreed credit terms. Reports will be revoked if the invoice for the completed work is not paid in full.