



**LINDSTROM  
ENGINEERING**

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# DESIGN CERTIFICATION

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**FOR: FERRUM ENGINEERING**

**CERTIFIED BY: AARON LINDSTROM, MIEAUST. CPENG. RPEQ 16913 (MECH.  
& STRUCT.); LINDSTROM ENGINEERING**

**RE: 55 & 60MM CROWS FOOT SPANNERS**

**JOB REF NO: FE001**

**DATE: 28/10/2021**

**SIGNED: Original Signed**

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EXTRACT  
Email: sales@ferrumengineering.com for full signed copy.

## Summary

Lindstrom Engineering was engaged by Ferrum Engineering to verify the mechanical performance of the 55 and 60mm Crows Foot Spanners (See Appendix A) to a maximum torque of 280Nm. Both spanners were found to perform within acceptable stress ranges relative to the yield strength of the designated high strength steel plates. The spanners comply with the requirements of the below reference materials as applicable

- AS 3990—1994, Mechanical equipment - Steelwork
- Technical Guide — Fatigue Resistance of Bisalloy® Steel

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