



MTS Metallurgical Testing Services
ABN 54 122 133 331
3/52 Cocos Drive Bibra Lake Western Australia 6163
Tel 08 9418 6380 Fax 08 9434 1328



Test Report

To Metforce Pty Ltd
86 Furniss Road Landsdale WA 6919
Order No. PAUL 3

Report No. MTS-20828 METF
Issue Date 7/05/2015
Test Date 5/05/2015

Introduction

Four (4) only METFORCE QUICKLOC SWAGELESS STSTEM balustrade wire assemblies were received for testing to destruction to determine the maximum load capacity.

Standard/Specification Client Specification (Minimum failure load 400kgs)

Results Summary

(For details of individual tests, refer to the tables on the following pages.)

ID	Item/Heat No.	Dimensions/Type/Details	Overall Assessment
20828/01	Sample 1	1x19 stainless steel wire rope (3.2mm Diameter) with swageless swivel fitting and 6mm thread.	COMPLIES
20828/02	Sample 2	1x19 stainless steel wire rope (3.2mm Diameter) with swageless swivel fitting, turnbuckle and 6mm thread.	COMPLIES
20828/03	Sample 3	1x19 stainless steel wire rope (3.2mm Diameter) with swageless swivel fitting and wood screw thread.	COMPLIES
20828/04	Sample 4	1x19 stainless steel wire rope (3.2mm Diameter) with swageless swivel fitting, turnbuckle and wood screw thread.	COMPLIES

Remarks

The results of the tests reported herein COMPLIED with the requirements of the client's specification.

Colin Lorrimar
Metallurgical Testing Manager



Accreditation No: 15624
Accredited for compliance
with ISO/IEC 17025

Results

Test Items



The fittings and wire assemblies as received.

Fullsize Axial Tensile Test

Test Specification Client Specification **Test Procedure** MTS-TP2.2 Tensile Test of Products

ID	Dia. (mm)	Test Temp (°C)	UTS Load (kN)	UTS (MPa)	Fracture Location	Assessment
20828/01	3.2	Ambient	9.9	1230	The wire rope failed in the swageless fitting.	COMPLIES
20828/02	3.2	Ambient	9.9	1230	The wire rope failed away from the fitting.	COMPLIES
20828/03	3.2	Ambient	8.7	1080	The wire rope failed away from the fitting.	COMPLIES
20828/04	3.2	Ambient	4.1	510	The swageless fitting failed.	COMPLIES

Requirements

Minimum Failure Load 400kgs (3.92 kN).

Remark

The UTS(Mpa) values are approximations only. The true values can only be calculated using the actual cross-sectional area data supplied by the wire rope manufacturer.