



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	Report No.	MTS-19120 METF
Order No.	PAUL	Issue Date	17/09/2014
		Test Date	17/09/2014

Introduction

Three (3) only handrail brackets were received for testing to the client's requirements. Each bracket was subjected to the progressive application of test load in the downwards direction to simulate the worst possible case of in-service conditions.

Loading was continued until either yielding was observed or a load of 5,500 Newtons (approx 560 kgs) was achieved.

The load achieved before any signs of failure were observed was recorded as the "Load bearing capacity" of the bracket.

Test Item(s) Three (3) only Wall Handrail Brackets

Standard/Specification Client Specification (Based on the design requirements of AS/NZS 1170)

Results Summary

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

ID	Item/Heat No.	Dimensions/Type/Details	Finish
19120/01	WALLBRACKETADJ	Wall Handrail Bracket, 316 Stainless steel	Polished
19120/02	WALLBRACKET	Wall Handrail Bracket, 316 Stainless steel	Polished
19120/3	WALLSQUARE	Wall Handrail Bracket, 316 Stainless steel	Polished

Remarks

The results of the tests reported herein were not subject to assessment and are provided for information purposes only.

Colin Lorrimar
Metallurgical Testing Manager



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

Results

Load Test - WALLBRACKET

Test Specification Client Specification **Test Procedure** MTS-TP3.1 Compression Tests - Products

Specimen ID	Test Load (N)	Observations	Assessment
19120/02	1,150	The bracket failed by gradual distortion at the junction with the wall plate. Load bearing capacity: 117 kgs	NOT ASSESSED



Handrail bracket under the test

Results

Load Test - WALLBRACKETADJ

Test Specification Client Specification **Test Procedure** MTS-TP3.1 Compression Tests - Products

Specimen ID	Test Load (N)	Observations	Assessment
19120/01	1,000	The bracket failed by gradual slipping of the grub screw. Load bearing capacity: 102 kgs.	NOT ASSESSED



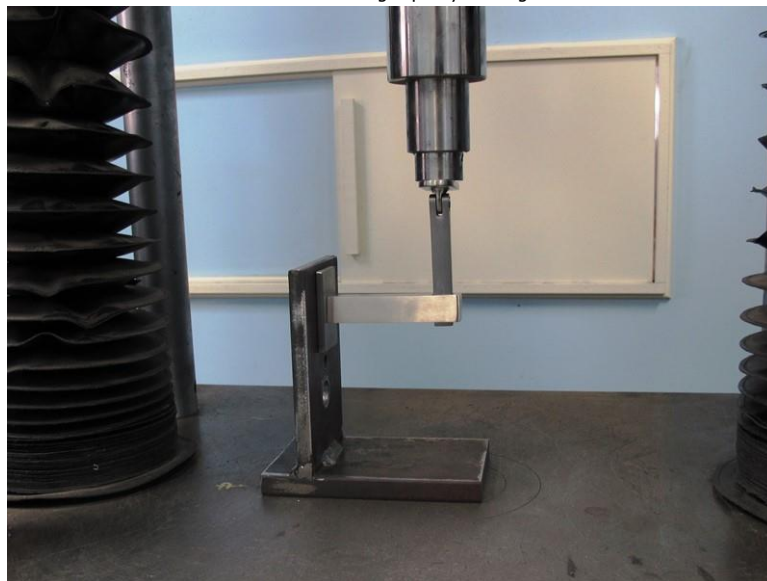
Handrail bracket under the test

Results

Load Test - WALLSQUARE

Test Specification Client Specification **Test Procedure** MTS-TP3.1 Compression Tests - Products

Specimen ID	Test Load (N)	Observations	Assessment
19120/03	1,300	The bracket failed by gradual slipping of the grub screw. Load bearing capacity: 132 kgs	NOT ASSESSED



Handrail bracket under the test