



PAGE 1/11

This Test Report cancel and replace the Test Report 1400144BRI

TEST TYPE: LOAD TESTS

MATERIAL/SAMPLE:

JOB No:

D.D.T.:

MBO14E00227

SLINGING SYSTEMS

No 87 of 31/01/2014

No ACC, OUR OFF, No: METBO0207813 OF

ORDER:

SAMPLE RECEIPT DATE:

2014-02-03

2014/01/28

CLIENT:

Spencer Italia S.r.I. Via Strada Cavi, 7 Collecchio PR

DECLARATIONS

The data contained in this test report only refer to the samples delivered by the Customer.

The Customer engages itself to reproduce this report integrally; any partial reproduction shall be authorized by CERMET.

Cadriano di Granarolo, 2014-03-18

<u>The Engineer</u> Mr. Davide Salomoni The Head of Laboratory Roberto Bertozzi

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SAMPLE IDENTIFICATION AND TEST PURPOSE

The Client delivered No 2 samples identified as follows:

Sample Identification	Denomination / Description	Item Code
STX 519	Slinging system ADJUSTABLE	ST04519
STX 540	Slinging system FIXED	ST04522

TEST PURPOSE

The tests were carried out in order to verify the behavior of the two types of samples during the static tensile stress tests.



PAGE 3/11

LOAD TEST 1 (Check of the tensile strength for a load of 450 kg)

TEST EXECUTION DATE: 2014-02-10

TEST EQUIPMENT

Static test equipment Instron IM006 Calibration Certificate LAT 052 1303491FSE.

TEST CONDITION

The samples were fixed to the test equipment and load cell by means of a gripping system which simulate the use condition (see page 11 of annex).

Photos 1 and 2 illustrate the test configurations adopted.





PAGE 4/11

TEST PARAMETERS

Temperature: Test speed: Test end: 22 °C 50 mm/min on achievement of di 4.4 kN (450 Kg) load

TEST RESULTS

Sample	F _{Max} (kN)	
STX 519	4.458	
STX 540	4.500	

*F*_{Max}: is the max force applied

At the end of the test both samples showed some irregularities, such as breaks or decays, of both metal components (buckles and carabineers) and single belts.



PAGE 5/11

TEST GRAPHS







PAGE 6/11

LOAD TEST 2 (Check of tensile strength for a load of 4027 kg)

TEST EXECUTION DATE: 2014-02-11

TEST EQUIPMENT

Static test equipment Instron IM006 Calibration certificate LAT 052 1303491FSE.

TEST CONDITION

The samples were fixed to the test equipment and load cell by means of the same gripping system as that used for the "LOAD TEST 1 (Check of the tensile strength for a load of 450 kg".

TEST PARAMETERS

Temperature:	22 °C
Test speed:	50 mm/min
Test end:	on achievement of 39.5 kN (4027 kg) load

TEST RESULTS

Sample	F _{Max} (kN)	Notes
STX 519	19.7	(*)
STX 540	39.5	(**)

*F*_{Max}**:** is the max strength measured

(*) The test ended with the decay of one of the load balancing belts (ref. Photo 3).

(**) The test ended on the achievement of the established load; during the load application a progressive deformation was noticed on both carabineers (ref. Photo 4); the deformation resulted of elastic type because at the test end the catches resumed the original shape (ref. Photo 5).



PAGE 7/11





PAGE 8/11





PAGE 9/11





PAGE 10/11

250

TEST GRAPHS

0

0

Graph of sample STX 540

50

100

Spostamento in mm

150

200





PAGE 11/11

ANNEX

