

TEST REPORT N. 1800203BRI

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TEST TYPE: PULL STRENGTH

MATERIAL /SAMPLE: PULL CLAMP

JOB N°: MBO17E03123

D.D.T.: N° 00176 del 06/10/2011, 00180 del 11/10/2011,
00709 del 16/11/2017

ORDER: N° acc. ns offerta METBO0150217 (MBO17E03123)
del 2018/01/31

SAMPLE RECEIPT DATE: 2017/11/17

CLIENT **STANZANI S.a.s.**
ViaSavena Vecchia, 67
BARICELLA BO

WARNINGS

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

The report can not be reproduced partially without authorization.

Cadriano di Granarolo, 2018-03-16

Technician
Dott.Ing. *Thierry Foko*



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Lab manager

Nicola Vicentini

Firmato digitalmente da:VICENTINI NICOLA
Data:10/07/2018 10:49:37

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TEST REPORT N. 1800203BRI**SAMPLE IDENTIFICATION**

The client furnished n°1 sample identified as follows:

| Identification | Description | Pull strength [kg] | Raw material |
|----------------|--------------|--------------------|--------------|
| Art.135 | Swivel clamp | 6000 | Steel |

PURPOSE OF THE TEST

Verify the pull strength of the sample

WARNINGS

Tested samples have been returned upon customer's request.

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TEST REPORT N. 1800203BRI**TEST: PULL STRENGTH**

TEST DATE: 2018-02-08

TECHNICIAN : *ThierryFoko***EQUIPMENTS**

Static testing machine for tensile strength INSTRON identification IM178 Certificate of Calibration UKAS 0019 n° E150042617135010.

Caliber Mitutoyo identification ID199 Certificate of Calibration LAT 52 n°1707246DSI

Thermometer Delta Ohm identification IT016 Certificate of Calibration CERMET n° 1519-16.

TEST CONDITIONS

The verification took place by clamping a 12 mm thick sheet of S1100 structural steel; between static testing machine for tensile strength and to clamp pliers in order to reproduce the using conditions and find out the load under which the clamp breaks or the metal sheet slides-off.

The screw on the clamp was tightened with a torque of 198 Nm

Photo 1 shows the testing configuration.

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Photo 1: Testing configuration

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TEST REPORT N. 1800203BRI**TEST PARAMETERS**

Temperature 24 °C
Test speed : 1 mm/min
Type of control: Displacement
Preload 500 N

TEST RESULTS

| Article's code | Pull strength F_m [N] | Note |
|----------------|--|------|
| Art. 135 | 56773,86 (**) | (*) |

Note:(*) At end of the test the sample is damaged

(**) F_m equivalent to 5789,32 kg

F_m: Maximum load.

Uncertainty on the force measurement **U(k=2)2% of the expressed force value**

*The estimation of measurement's expanded uncertainty indicated above is based on the standard uncertainty multiplied by a coverage factor $k = 2$ (level of confidence 95%).
uncertainty assessment of the measurement was carried out taking into account the recommendations of the reference standard*

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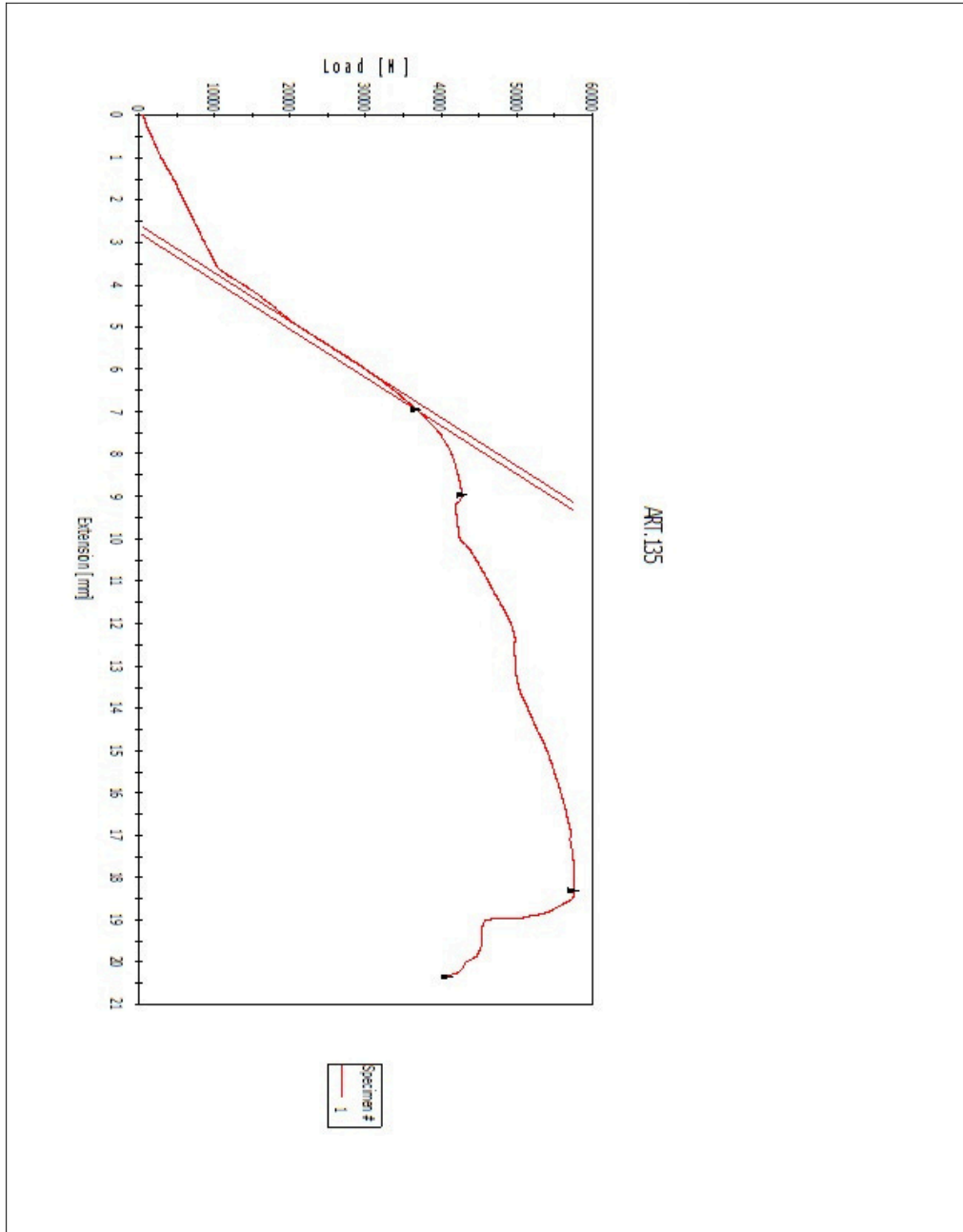
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TEST GRAPHIC



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