

Certificate of Compliance

Certificate Number **20091211-E325646**
Report Reference **E325646, 2009 December 11**
Issue Date **2009 December 11**

Page 1 of 1



Issued to: **SLAGBOOM ELECTRIC B.V.**

EGSTRAAT 1
2952 BG DORDRECHT THE NETHERLANDS

*This is to certify that
representative samples of*

CONDUIT AND CABLE HARDWARE

SE 26-38, SE 36-52, SE 50-75, SE 75-100, SE 100-135, IM 12-32, Triple 27-38,
Triple 38-51, and Triple 51-69

*Have been investigated by Underwriters Laboratories Inc.® (UL) or any authorized
licensee of UL in accordance with the Standard(s) indicated on this Certificate.*

Standard(s) for Safety: UL 2239
CSA C22.2 No. 18.4-04

Additional Information: See UL On-Line Certification Directory at WWW.UL.COM for additional information.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

William R. Carney
Director, North American Certification Programs
Underwriters Laboratories Inc.

Client: Slagboom Electric BV
 Order number: EL9607
 Date of tests: 12th March 2010
 Report code: TR

Prof. Ir. Damstra Laboratory
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 Europalaan 202, 7559 SC Hengelo, The Netherlands
 Tel.: +31 74 246 4351 Fax: +31 74 246 4352
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Subject: Cable cleats for electrical installations.

Purpose: Test for resistance to electromechanical force.

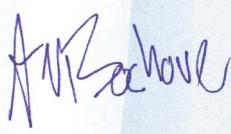
Object:

- 1.) One mounting surface with three single core medium voltage aluminium cables with a core of 27 mm, type; YMeKrvasl9wd 12/20kV 1x 630ALrm + as50; mounted with cable cleats.
 Manufacturer cable cleats: Slagboom Electric
 Type cable cleats: Dutchclamp Triple 51 – 69
 Spacing: 300 mm
- 2.) Three mounting surfaces with on each surface a single core medium voltage copper cable with a core of 55 mm, type HV mounted with cable cleats.
 Manufacturer cable cleats: Slagboom Electric
 Type cable cleats: Dutchclamp SE 75 – 100
 Spacing: 300 mm

Conclusion: The assembly with the Dutchclamp Triple 51 – 69 passed the test with one short circuit peak-current of 150 kA.

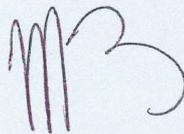
The assembly with the Dutchclamp SE 75 – 100 passed twice the test with a peak-current of 200 kA.

Note: 200kA is maximum peak current for the test station with this assembly.

Author: A. van Bochove 

Checked by: H. IJsseldijk 

This report consists of:
 Pages 28


 M. Binnendijk
 Manager

Hengelo, 13th April 2010

The test results concern only the investigated test objects.

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The Prof. Ir. Damstra Laboratory is the independent test institute of Eaton Electric B.V.

Client: Slagboom Electric B.V.
 Address: Egstraat 1
 3319 LA Dordrecht
 The Netherlands
 Test location: Prof. Ir. Damstra Laboratory
 Hengelo, The Netherlands
 Observed by: Arie van Bochove
 Witnessed by: mr. Jack Veendorp, mr. Peter Herwig and mr. Barry de Waard

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1. Testprogram

Tests performed according clients instructions and based on IEC 61914, Edition 1.0, 2009-01.

Clause:	9.5	Test for resistance to electromechanical force.
Sub-clause	9.5.1	General.
Sub-clause	9.5.2	For cable cleats and intermediate restraints classified in 6.4.3.
Sub-clause	6.4.3	Resistant to electromechanical forces, withstanding one short-circuit.
Sub-clause	9.5.3	For cable cleats and intermediate restraints classified in 6.4.4.
Sub-clause	6.4.4	Resistant to electromechanical forces, withstanding more than one short-circuit.



Brussel June 19th 2013

Dear Sir, Madam.

We confirm that the cables cleats of the company Slagboom Electric B.V are actually under test procedure at SGS CEBEC according to standards IEC/EN 61914.

The following test have already been performed and gave a positive result :

- Durability of marking : PASS
- Impact test at low temperature: PASS
- Resistance to UV light: PASS
- Flame propagation: PASS

The following test will be performed within end of October 2013.

- Lateral load test
- Axial load test
- Resistance to electromechanical force (short-circuit test)

Best regards.

Luigi Zanutto

A handwritten signature in blue ink, appearing to read 'zanutto', with a horizontal line above it.

Product Line Manager
Cables and Installation Equipments.



Dear Sir.

We SGS CEBEC declare that we are in an advanced stage about testing and certification according to EN 61914 (NEN EN IEC 61914) of the cables cleats from the company **SLAGBOOM ELECTRIC B.V. Dutchclamp** .

The tests will be partly performed at SGS CEBEC in Brussels and by the company SIRRIS in Liège, but always under the responsibility of SGS CEBEC.

Best regards.

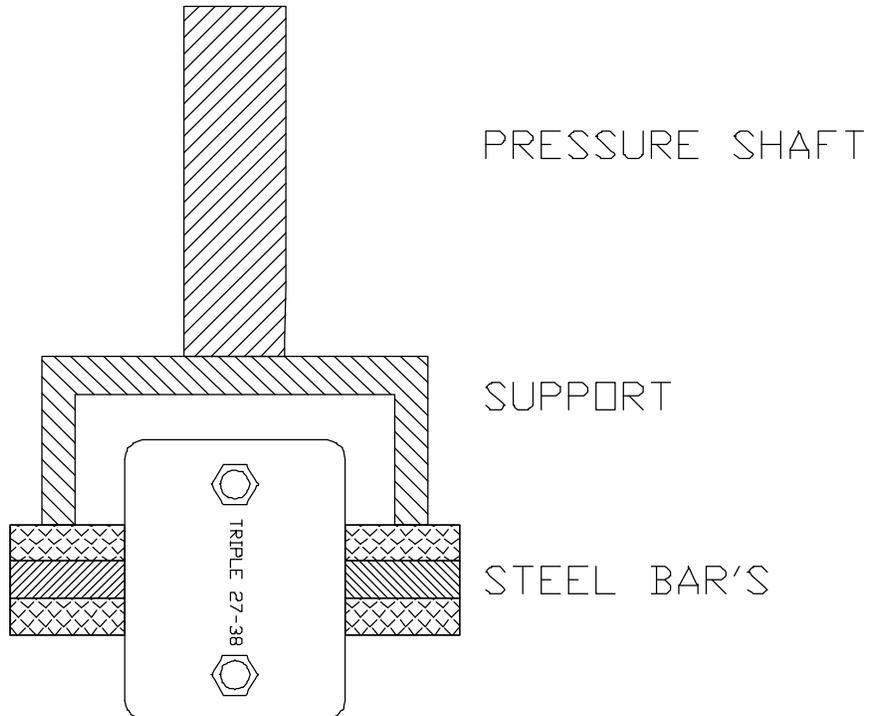
A handwritten signature in blue ink, appearing to read 'zanutto', with a stylized flourish above it.

Luigi ZANUTTO,
Division SGS CEBEC
Product Line Manager Cables
& Installation Equipments

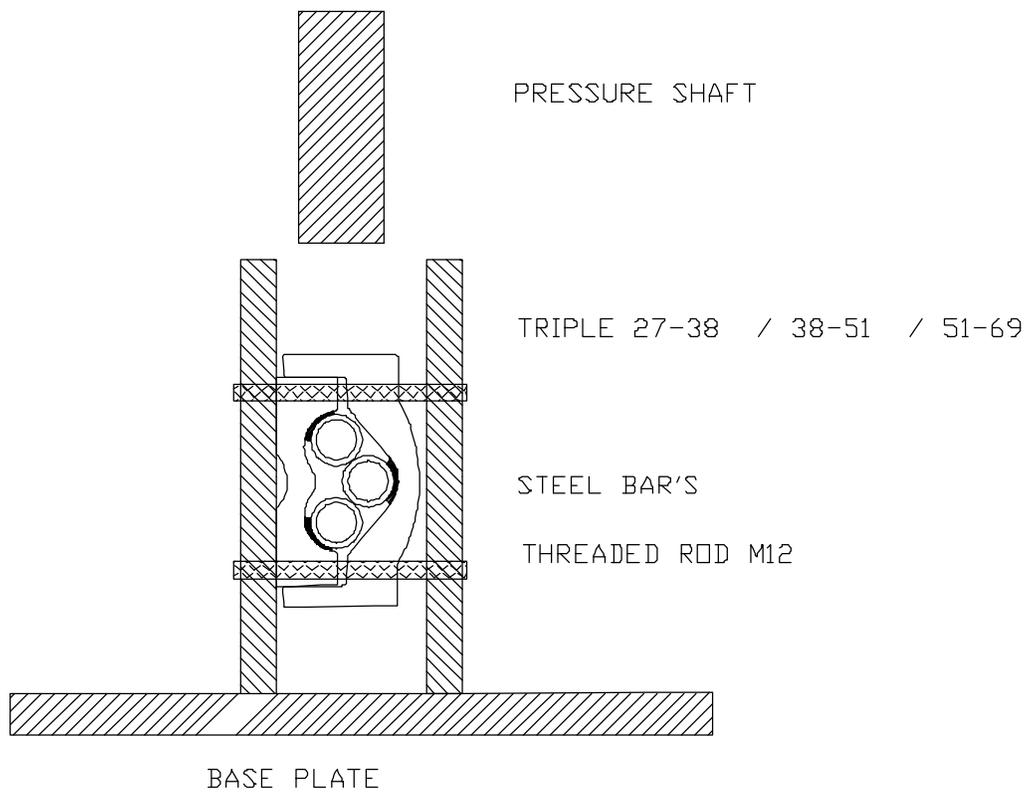
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FRONT-VIEW



SIDE-VIEW



Drawing 2.1.

01-05-08
08-05-08
08-05-08

Signed by
Test carried out by
Approved by

P.F. van de Griek
T. Retèl
J.B. Veendorp

Test report tensile strength sideways cable clamp type TRIPLE 27-38 38-51 51-69.

During this test the SE cable clamps were tested on their mechanical strength sideways.
10 Pieces were mounted vertically on a fixing base with M12 threaded rods, washers and nuts.
The nuts were tightened with a force of 5 Nm.

3 Steel bars with a diameter of 30 mm were fixed inside the Triple 27-38 cable clamp.

3 Steel bars with a diameter of 45 mm were fixed inside the Triple 38-51 cable clamp.

3 Steel bars with a diameter of 60 mm were fixed inside the Triple 51-69 cable clamp.

On these bars a pressure was build up until the moment the cable clamp damaged.

Of all tested cable clamps the side wings of the upper clamp halve cracked partially or cracked completely. The lower clamp halve did not damage.

Underneath we state the medium value of the moment the upper halve of the cable clamp damaged:

TRIPLE 27-38	maximum load vertically	35.900 N
TRIPLE 38-51	maximum load vertically	39.800 N
TRIPLE 51-69	maximum load vertically	69.900 N

Annex drawing 2.1

01-05-08

Signed by

P.F. van de Griek

08-05-08

Test carried out by

T. Retèl

08-05-08

Approved by

J.B. Veendorp