

**TEST REPORT****EN 61537:2007****Cable management — Cable tray systems and cable ladder systems  
Clause 11.1 - Electrical continuity**Report Number.....: **1656.001.3.01**

Date of issue.....: 18/03/2019

Total number of pages .....: 8

Applicant's name .....: ELVAN S.A.

Address .....: 20km Lavriou Ave. GR-190 02, Paiania, GREECE

**Test specification:**

Standard(s).....: EN 61537:2007 Clause 11.1

Test procedure .....: As above mentioned clause of standard

Non-standard test method.....: NA

Test Report Form No.....: TRF EN 61537\_P1

Test Report Form(s) Originator.....: Labor S.A.

Master TRF.....: 18/03/2019

Test item description .....: Galvanized Cable Tray System

Trade Mark .....:   
CABLE TRAYS - SUPPORT SYSTEMS


Manufacturer.....: Same as applicant

Model/Type reference .....: 200X60X1,5 DG

Tested by (name + signature) :

  
AGAMEMNON FRETZAGIAS  
MECHANICAL ENGINEER NTUA

Approved by (name + signature) :

  
ANTONIOS POLITIS  
ELECTRICAL ENGINEER  
LAB MANAGER

**Testing procedure and testing location:**

- Testing Laboratory..... : LABOR S.A.  
Testing location/ address ..... : 84 ETHNIKIS ANTISTASEOS STR 15351 PALLINI
- Associated Testing Laboratory ..... : NA  
Testing location/ address ..... : NA

**List of Attachments (including a total number of pages in each attachment):****Summary of testing:**

Sample of the product has been tested according to the above mentioned clause of the standard and complied with it's applicable requirements

**Tests performed (name of test and test clause):**

Clause 11.1 - Electrical continuity

**Testing location:**

LABOR S.A.  
84 ETHNIKIS ANTISTASEOS STR 15351  
PALLINI

**Summary of compliance with National Differences:**

Greece

**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBS that own these marks.

Test item particulars..... :

**Possible test case verdicts::**

- test case does not apply to the test object.....: NA (Not Applicable)
- test object does meet the requirement .....: P (Pass)
- test object is not tested the requirement.....: NT (Not Tested)
- test object does not meet the requirement.....: F (Fail)

**Testing:**

Date of receipt of test item.....: 14/03/2019

Date (s) of performance of tests.....: 15/03/2019

**General remarks:**

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

This test report does not entitle to carry or approval any safety mark on this or similar(s) products.

**General product information:**

Galvanized Cable Tray System 200X60X1,5 DG

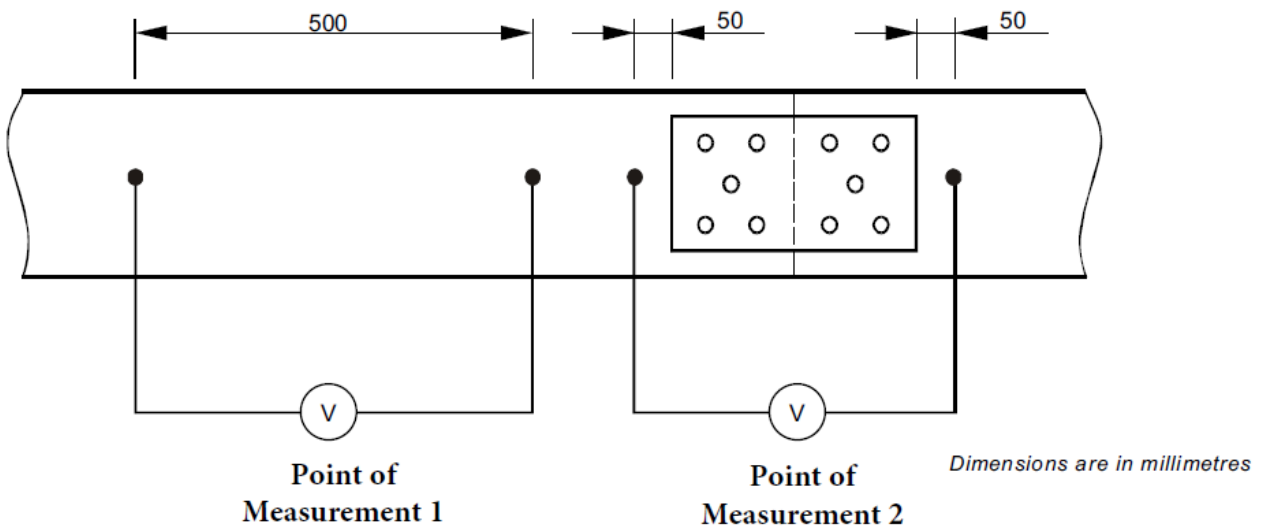
Clause	Requirement - Test	Result - Remark	Verdict
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<b>11</b>	<b>Electrical properties</b>		
<b>11.1</b>	<b>Electrical continuity</b>		
	Cable tray systems and cable ladder systems declared according to 6.3.2 shall have adequate electrical continuity to ensure equipotential bonding and connection(s) to earth if required according to the application of the cable tray system or of the cable ladder system.	See below	P
	After treatment according to 11.1.1, compliance is checked by the test according to 11.1.2.	See 11.1.1 and 11.1.2	P
	The samples and test set-up shall be as shown in Figure 9. If different types of coupling exist within the system, then they shall be tested separately	As shown in figure 9a	P
<b>11.1.1</b>	All grease is removed from the parts to be tested, by cleaning with white spirit with a kauributanol value of $35 \pm 5$ .		-
	The parts shall then be dried, after which they are assembled and tested according to 11.1.2		-
	A current of $25 \text{ A} \pm 1 \text{ A}$ a.c. having a frequency of 50 Hz to 60 Hz supplied by a source with a no-load voltage not exceeding 12 V shall be passed through the length of the samples.		P
	The voltage drop shall be measured between two points 50 mm each side of the coupler or integral coupling and again between two points 500 mm apart on one side of the joint as shown in Figure 9, and the impedances are calculated from the current and the voltage drops.	See Table 1	P
	The calculated impedances shall not exceed 50 mΩ across the joint and 5 mΩ per metre without the joint.	See Table 1	P

Clause	Requirement - Test	Result - Remark	Verdict
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11.1	Table 1 – Electrical continuity		P
Point of measurement	1	2	
Voltage (mv)	9,020	7,760	
Current (A)	25,200	25,200	
Impedance (mΩ)	0,358	0,308	
Limit (mΩ)	2,500	50,000	

Notes: See below Figure 1 which illustrated the points of measurement



**Figure 1 - Point's of measurement on cable tray system**

**PHOTO DOCUMENTATION**  
**DIFFERENT VIEWS OF EUT**



Image 1



Image 2



Image 3



Image 4



Image 5



Image 6

**PHOTO DOCUMENTATION**  
**DIFFERENT VIEWS OF EUT**



Image 7



Image 8