

ELECTROTECHNICAL TESTING INSTITUTE Pod Lisem 129

171 02 Praha 8 - Troja

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Ref.: Bz/Sa

No. of the Test Report: 205569-01/02

Issued: 29.3.2013



TEST REPORT

Name of product:

Intercom

Type of product:

2N® Helios IP Force 9151101C, 2N® Helios IP Force 9151101CK. 2N® Helios IP Force 9151101, 2N® Helios IP Force 9151101K. 2N[®] Helios IP Force 9151102CR, 2N[®] Helios IP Force 9151102R, 2N[®] Helios IP Force 9151104C,

2N[®] Helios Force 9151201, 2N[®] Helios Force 9151204, 2N® Helios Force 915201K 2N® Helios IP Safety 9152101, 2N® Helios IP Safety 9152101C, 2N® Helios Safety 9152201

Ratings:

IP 65

Serial number:

Manufacturer:

2N TELEKOMUNIKACE a. s.

Modřanská 621/72, 143 01 Praha 4, Czech Republic

Production site:

dtto manufacturer

EZÚ product coding system: 105001

Ordering firm:

2N TELEKOMUNIKACE a. s.

Modřanská 621/72, 143 01 Praha 4, Czech Republic

Number of tested samples:

Samples submitted on:

7.2.2013

Location of testing:

FZÚ

Tested from

7.2.2013 through 8.3.2013

Other data:

Type representatives 2N® Helios IP Safety 9152101W,

2N[®] Helios IP Force 9151102CR, 2N[®] Helios IP Force 9151101CK and

2N® Helios IP Force 9151104C were tested.

The product was tested

according to:

EN 60529/A1:2000

The test results contained in this report refer to the tested items only. The values presented in this report were measured with the accuracy specified in the testing regulations. All measuring instruments used are properly

284680070

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Compiled by: J. Šašek

Approved by: J. Bažant

Testing laboratory technical manager

Phone: +420 266104111

E-mail: testing@ezu.cz http://www.ezu.cz

1. Specimen description

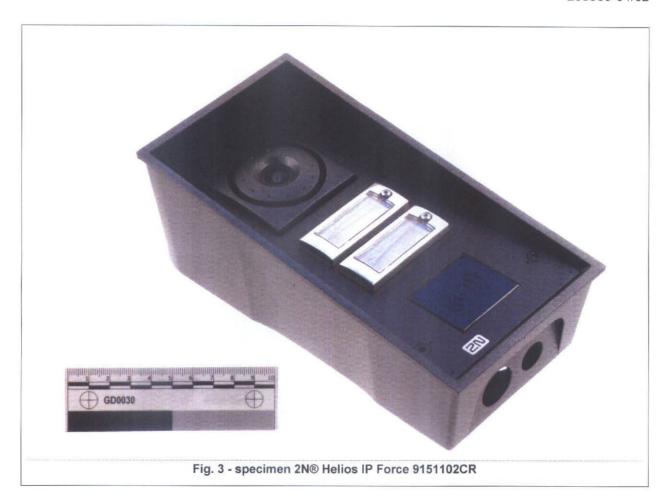
Four intercoms were provided for testing:

- a) 2N® Helios IP Safety 9152101W
- b) 2N® Helios IP Force 9151102CR
- c) 2N® Helios IP Force 9151101CK
- d) 2N® Helios IP Force 9151104C

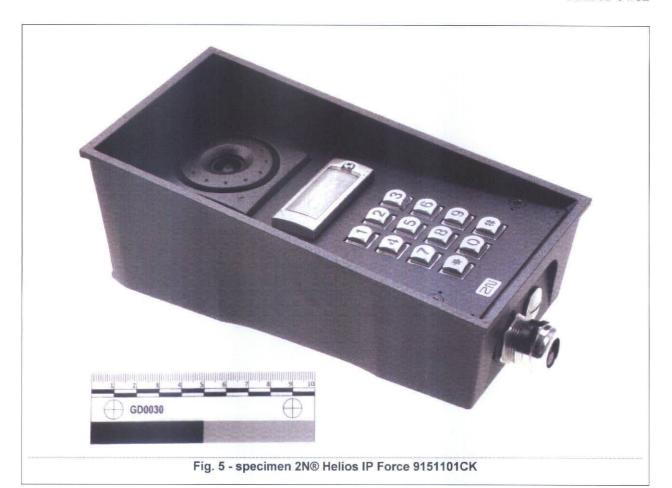
For purpose of testing, the specimens were fixed to an artificial wall.



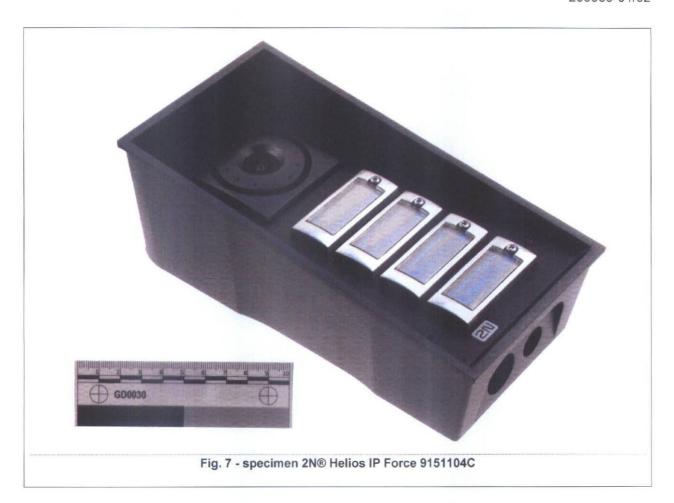














2. Testing

2.1. Tests of protection provided by enclosures

according to EN 60529/A1:2000

2.1.1. Test of protection against penetration of dust - IP 6X

according to EN 60529/A1:2000, cl. 13.4 and 13.6

Test apparatus:

dust chamber VST 1150, inv. No. 834490

Test parameters:

The specimens were tested in an operating position. dust filling of the chamber: talc temperature / relative humidity during the test: 55 °C / 30 % underpressure outlet: via bushing underpressure: 2 kPa duration of test: 8 h

Findings:

During the test, no dust penetrated into the specimens.

passed

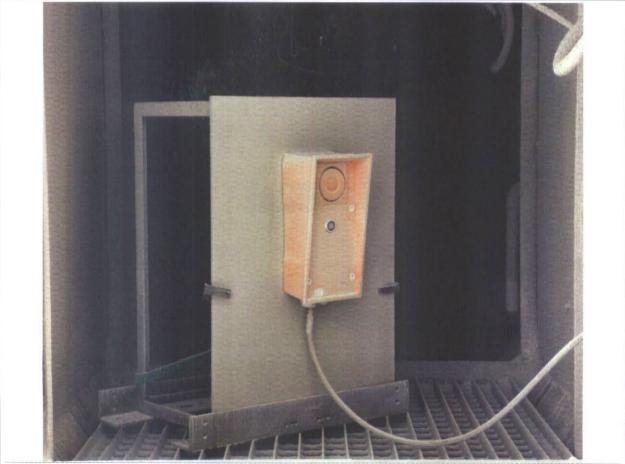


Fig. 9 - specimen 2N® Helios IP Safety 9152101W after IP 6X test

2.1.2. Test of protection against water jets - IP X5

according to EN 60529/A1:2000, cl. 14.2, 14.2.5 and 14.3

Test apparatus:

water jet hose nozzle with internal diameter of 6,3 mm, inv. No. 4695 stopwatch SECCO, cal. No. N700477

Test parameters:

The specimens were tested in an operating position.

testing: see Fig. 10

water flow rate: 12,5 l·min⁻¹ ±5 %

distance from the surface of the specimen: 2,5 ÷ 3 m

duration of test: 3 min

Findings:

During the test, no water penetrated into the specimens.

passed

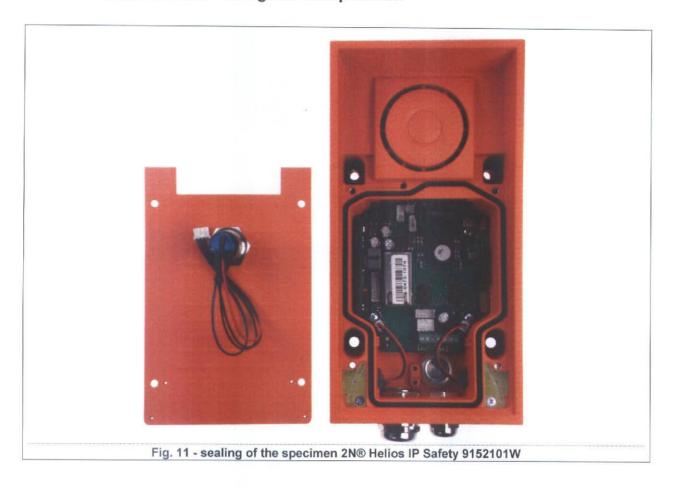


Fig. 10 - IP X5 testing of specimen 2N® Helios IP Force 9151101CK

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compiled by: J. Šašek

3. Photodocumentation - design of the specimen



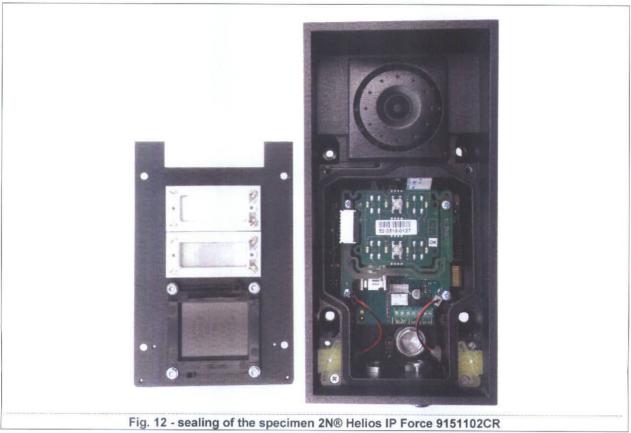
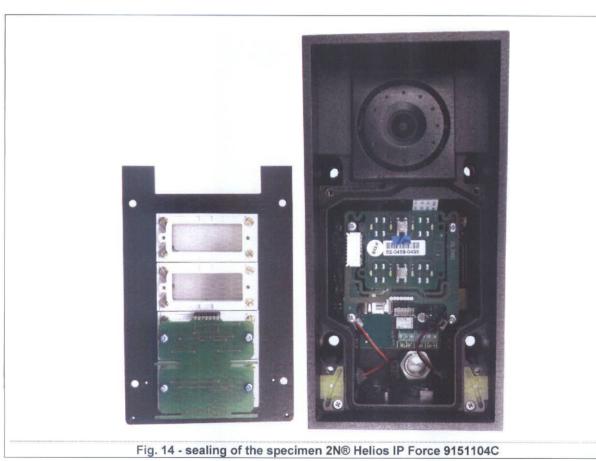
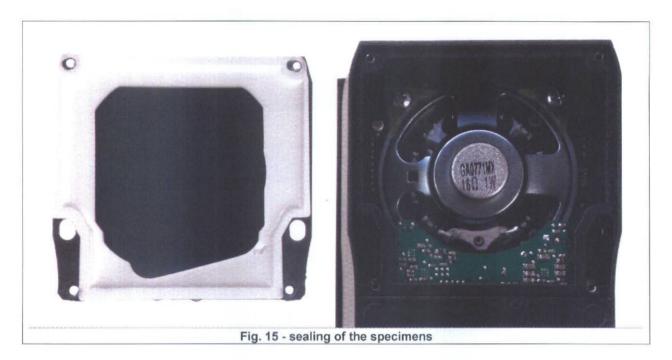
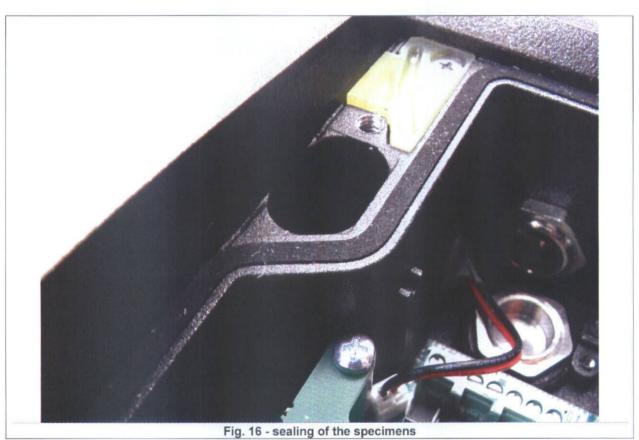




Fig. 13 - sealing of the specimen 2N® Helios IP Force 9151101CK







4. Test result

The submitted specimens

- a) 2N® Helios IP Safety 9152101W
- b) 2N® Helios IP Force 9151102CR
- c) 2N® Helios IP Force 9151101CK
- d) 2N® Helios IP Force 9151104C

satisfy conditions for degree of protection provided by enclosures IP 65 according to EN 60529/A1:2000.

Note: 2N® Helios IP Force 9151101C, 2N® Helios IP Force 9151101, 2N® Helios IP Force 9151101K, 2N® Helios IP Force 9151102CR, 2N® Helios IP Force 9151104, 2N® Helios Force 9151201, 2N® Helios Force 9151204, 2N® Helios Force 915201K 2N® Helios IP Safety 9152101, 2N® Helios IP Safety 9152101C and 2N® Helios Safety 9152201 have identical enclosure and identical cover elements as the tested types. Therefore, test results in this Test Report also regard to these types.

Tested by: J. Šašek