

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Cavity Wall Mounting Boxes

Type / Model : **All types**

Type designation: As in our catalogue

The designated product is in conformity with the European Directive 2006/95/EC including amendments.

"Council Directive of 12 December 2006 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1 / 2005 .

EN 60670-22 / 2006.

Statement:

Comply with the requirements paragraph 18 (resistance of insulating materials into non normal conditions of heat and fire) and is classified as NON-FLAME PROPAGATING enclosure (Glow wire test)

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

DATE OF ISSUE : MAY 2018

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: **COMBO Rigid Light Type 320N**

Type / Model : **All types**

Type designation: As in our catalogue

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards:

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1: General Requirements).

EN 61386-21 / 2004 (Part.2-1: Particular requirements for rigid conduit systems).

Statement:

Comply with the requirements paragraph 13.1.3. (spread of fire, test of par. 13.1.3.2.) and is classified as NON-FLAME PROPAGATING conduits.

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

DATE OF ISSUE: JANUARY 2018

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: **COMBO SPIRAL Light Type 320N**

Type / Model : **All types**

Type designation: As in our catalogue

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-22 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

Statement:

Comply with the requirements paragraph 13.1.3. (spread of fire, test of par. 13.1.3.2.) and is classified as NON-FLAME PROPAGATING conduits.

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

DATE OF ISSUE : JANUARY 2013

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Surface Mounting Watertight Enclosures

Type / Model : **All types**

Type designation: As in our catalogue

The designated product is in conformity with the European Directive 2006/95/EC including amendments.

“Council Directive of 12 December 2006 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1 / 2005 .

EN 60670-22 / 2006.

Statement:

Comply with the requirements paragraph 18 (resistance of insulating materials into non normal conditions of heat and fire) and is classified as NON-FLAME PROPAGATING enclosure (Glow wire test)

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

DATE OF ISSUE : JULY 2018

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Cavity Wall Mounting Boxes

Type designation: **Junction Boxes**

105x105 – 155x105 – 220x160 -100x50 round

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006+A1/2013



Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Cavity Wall Mounting Boxes

Type designation: **Switch Box MODUL**

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Cavity Wall Mounting Boxes

Type designation: **Single 1-Gang, Double 2- Gang, Triple 3- Gang**

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 60670-1/2005
EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Flush Mounted Boxes

Type designation: **Switch Boxes D65**

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Flush Mounted Boxes
Type designation: **Switch Boxes MODUL**
3 Gang – 4 Gang – 6 Gang

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 60670-1/2005
EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Flush Mounted Boxes

Type designation: **Junction Boxes ROUND**
NT- 100X35

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 60670-1/2005
EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Flush Mounted Boxes

Type designation: **Junction Boxes ULTRA**

80x80 – 105x105 – 155x105 – 155x125 – 190x145 – 290x145

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 60670-1/2005
EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Flush Mounted Boxes
Type designation: **Switch Boxes FRAME**

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 60670-1/2005,
EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.034.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Concrete Mounting Enclosures

Type designation: Spotlight Installation Boxes **Spot R50 – R63-80**

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Cable Trunkings

Type designation: **Courbi Cable Trunking with adhesive**

10x8 – 12x12 – 15x10 – 16x16 – 20x10 – 25x16 – 25x25 – 30x20 –
40x16 – 40x25 – 40x40 – 60x40 – 60x60

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 50085-1/2006 +A1/2014

EN 50085-2-1/2007+A1/2012



Conformity with EC Directives is indicated by the CE mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Cable Trunkings

Type designation: **Courbi Cable Trunking**

10x8 – 12x12 – 15x10 – 16x16 – 20x10 – 25x16 – 25x25 – 30x20 –
40x16 – 40x25 – 40x40 – 60x40 – 60x60 – 80x40 – 80x60 – 100x40
– 100x60

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 50085-1/2006 +A1/2014

EN 50085-2-1/2007+A1/2012



Conformity with EC Directives is indicated by the CE mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Cable Trunkings

Type designation: **Floor Cable Trunking**

50x16 – 70x20

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 50085-1/2006 +A1/2014

EN 50085-2-1/2007+A1/2012



Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Bends 90**
16-20-25-32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386-1/2008(Conduit systems for electrical installations Part 1 : General requirements).

EN 60754-1/2014, EN 60754-2 (Part1-2; Procedures-Determination of Degree of Acidity of Gases for Materials by Measuring p H and conductivity).

EN 61034-2/2005 + A1/2013 LSZH test

Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Snap Conduit Clips**

16-20-25-32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386-1/2008(Conduit systems for electrical installations Part 1 : General requirements).

EN 60754-1/2014, EN 60754-2 (Part1-2; Procedures-Determination of Degree of Acidity of Gases for Materials by Measuring p H and conductivity).

EN 61034-2/2005 + A1/2013 LSZH test

Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **COUPLINGS HFFR**

16-20-25-32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386-1/2008(Conduit systems for electrical installations Part 1 : General requirements).

EN 60754-1/2014, EN 60754-2 (Part1-2; Procedures-Determination of Degree of Acidity of Gases for Materials by Measuring p H and conductivity).

EN 61034-2/2005 + A1/2013 LSZH test

Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Inspectionable T Joint**

16-20-25-32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386-1/2008(Conduit systems for electrical installations Part 1 : General requirements).

EN 60754-1/2014, EN 60754-2 (Part1-2; Procedures-Determination of Degree of Acidity of Gases for Materials by Measuring p H and conductivity).

EN 61034-2/2005 + A1/2013 LSZH test

Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

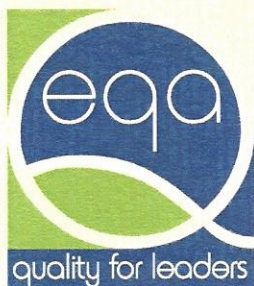
Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

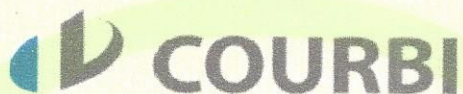


Φορέας Πιστοποίησης & Ελέγχου

CERTIFICATE

The certification & inspection Body
EQA HELLAS S.A.
certifies that

BINIARIS An. - KOUROUPIS An. Ltd



SOLOMOS KORINTHIAS, GR 201 00

has established and applies a Quality Management System which is in conformance with

ELOT EN ISO 9001:2015

(Quality Management System)

with scope

**PRODUCTION & TRADE OF PLASTIC PIPES &
PLASTIC COMPONENTS FOR ELECTRICAL INSTALLATIONS**

Certificate Number:

QMS 5180/17

Date of Issue:

25 November 2017

Valid Until:

24 November 2020

Initial certification date: 26 November 2014

FOR THE COMPANY
CHARALAMBOS GALATSANOS

This Certificate of Conformity, is valid only when annual surveillance audits within 12 months, from the issue date, are performed – and it is subject to the regulations of EQA HELLAS S.



CERTIFICATE NOS 193
QMS CERTIFICATION

EQA HELLAS S.A.
30, KALAMA P. Str., 152 33 CHALANDRI, Tel: 210 6834012, Fax: 210 6850985
url: www.eqa.gr, e-mail: eqa@eqa.gr, info@eqa.gr

www.eqa.gr

*Παρακαλούμε ενημερώστε μας για οποιοδήποτε παράπονο σχετικά με τον συγκεκριμένο πιστοποιημένο πελάτη



EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Rigid self-recovering

Type designation: **Pipe Combo HFFR 320N**

16-20-25-32-40-50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386-1/2008(Conduit systems for electrical installations Part 1 : General requirements).

EN 61386-21/2004(Part .2-1 : Particular requirements for rigid conduit systems)

EN 50267-2-1 EN 50267-2-2 (Part2-2; Procedures-Determination of Degree of Acidity of Gases for Materials by Measuring p H and conductivity).

EN 61034-2 LSZH test

Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable self-recovering

Type designation: **Spiral Combo HFFR 320N**

16 – 20 – 25 – 32-40-50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386-1/2008(Conduit systems for electrical installations Part 1 : General requirements).

EN 61386-22/2004(Part .2-2 : Particular requirements for pliable conduit systems)

EN 50267-2-1 EN 50267-2-2 (Part2-2; Procedures-Determination of Degree of Acidity of Gases for Materials by Measuring p H and conductivity).

EN 61034-2 LSZH test

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



TEST REPORT
EN 61386-1 and EN 61386-22
Conduit systems for cable management
Part 1: General requirements
Part 22: Particular requirements — Pliable conduit systems

Report Number : 0040.004.3.01

Date of issue : 08/05/2017

Total number of pages : 2

Applicant's name : BINIARIS AN. – KOUROUPIS AN. Ltd

Address : Solomos, GR- 201 00 Corinth, Greece

Test specification:

Standard(s) : EN 61386-1:2008, EN 61386-22:2004+A11:2010

Test procedure : As above mentioned standards

Non-standard test method : NA

Test Report Form No : TRF EN 61386-22 V2.0

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

Master TRF : 15/04/2017

Test item description : Pliable corrugated conduit

Trade Mark : 

Manufacturer : Same as applicant

Model/Type reference : COMBO Spiral HFFR

Tested by (name + signature) :

AGAMEMNON FRETZAGIAS
MECHANICAL ENGINEER NTUA

Approved by (name + signature) :

ANTONIOS POLITIS
ELECTRICAL ENGINEER
LAB MANAGER

Test item particulars :

Classification code	2232
Material	Non-metallic
Resistance to compression.....	2-Light
Resistance to impact.....	2-Light
Lower Temperature range	3 (-15 °C)
Upper Temperature range.....	2 (90 °C)
Resistance to bending	2 - Pliable
Electrical characteristics	2 - With electrical insulating characteristic
Protection against ingress of solid objects	NA
Protection against ingress of water	NA
Resistance against corrosion	NA
Tensile strength	NA
Resistance to flame propagation.....	1- Non-flame propagating
Suspended load capacity	NA



VDE Prüfbericht / VDE Test Report

Prüfbericht Nr. Report No.	257286-TL6-1
VDE-Aktenzeichen VDE File No.	5012507-9601-0001/257286
Ausstellungsdatum Date of issue.....	2019-01-10
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfört / Adresse Testing location/ address	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	Biniaris An.-Kouroupis An. Ltd
Auftraggeber Adresse Applicant's address	Solomos; 20100 CORINTH; GREECE
Angewandte Norm(en) Applied standard(s)	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + A1:2013
Art des Prüflings Test item description	Brandverhalten allgemein General fire behaviour
Warenzeichen Trade Mark	N/A
Typenbezeichnung(en) Type reference(s)	RIGID PIPE HFFR 320N, 16mm Type
Bemessungsdaten Ratings	N/A

Haftungsausschluss / Disclaimer:

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.
This test report contains the result of a single investigation carried out on the product submitted. A sample of this product was tested to determine the accordance with the thereafter listed standards or clauses of standards resp.
The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below. Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.

Prüfbericht Nr. Report No.:	257286-TL6-1	Seite Page	1	von of	6
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Zustand des Prüfmusters Test sample condition	☒	Unbeschädigtes Prüfmuster Non-damaged sample	
		Bemerkung / Remark:	
Wareneingang Prüfmuster Sample entry date	2018-12-13		
Datum der Durchführung der Prüfung(en) Date (s) of performance of test(s)	Siehe einzelne Prüfabschnitte See each test section		
Geprüft und ausgestellt von: Tested by			
Name / Name, Unterschrift / Signature	(Autorisierung des Prüfberichtes Authorization of test report)		
Funktion / Function	Prüfingenieur / Testing engineer		H. Schneider
Überprüft von / Verified by			
Name / Name, Unterschrift / Signature			
Funktion / Function	Reviewer		D. Staemmler
Fertigungsstätte(n) Factory(ies)			
Mögliche Prüfergebnisse Possible test case verdicts:			
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A		
Prüfung erfüllt (positiv) Test object does meet the requirement	P (Pass)		
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)		
Abschließendes Prüfergebnis Final Verdict:	☐	P	☐ F
Bemerkung / Remark	Keine gesamtheitlichen Prüfanforderungen festgelegt No overall test requirements defined		

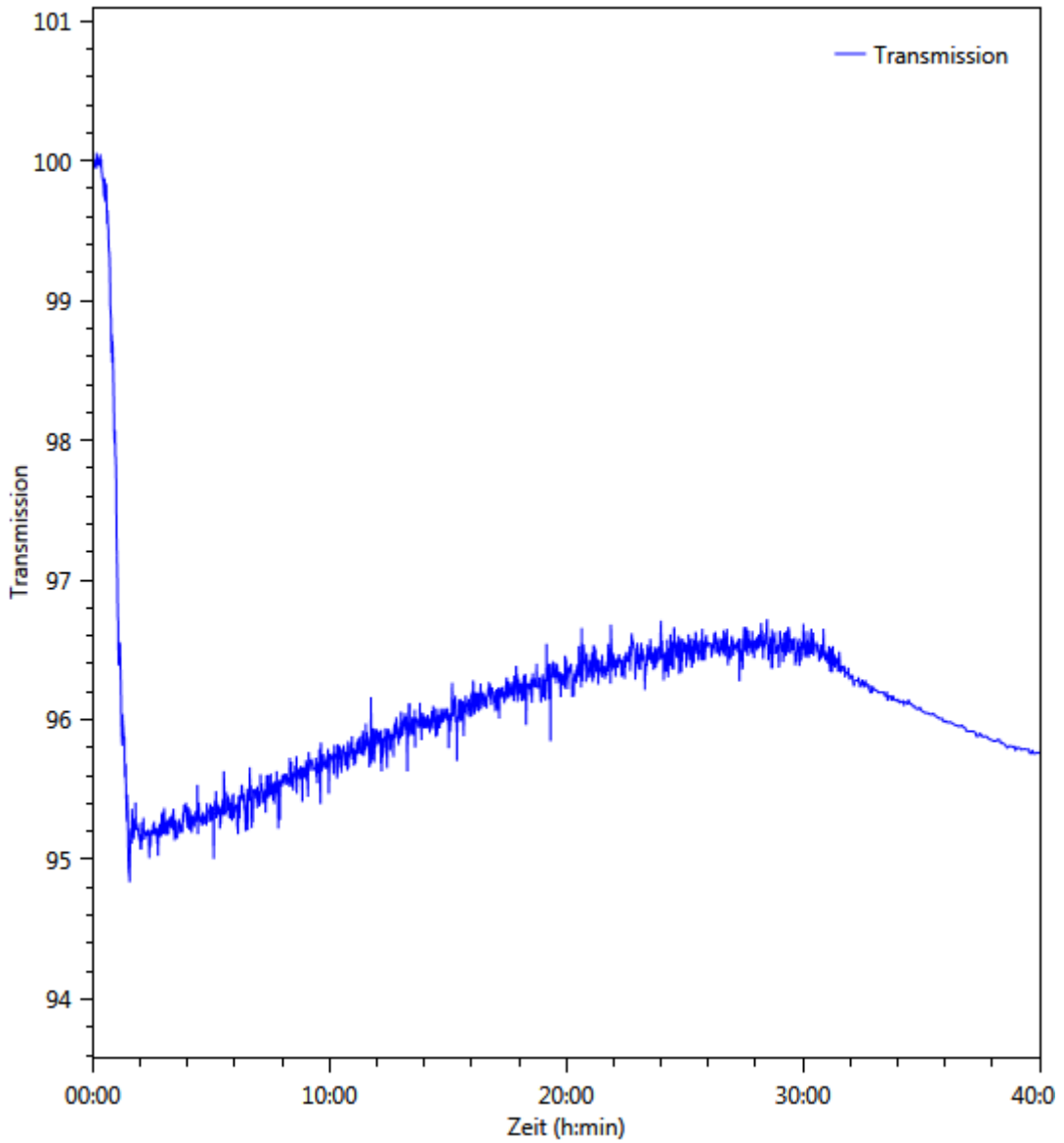


	ÜBERSICHT DER DURCHGEFÜHRTEN PRÜFUNGEN OVERVIEW OF PERFORMED TESTS		—
Nr. No.	Prüfgrundlage / Test standard	Prüfbezeichnung / Description of test	
A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>	



A	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements</i>		—
	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + EN 61034-2/ A1:2013 (IEC 61034-2:2005 + A1:2013)		—
	Datum der Durchführung der Prüfung <i>Date of performance of test:</i>	2019-01-10	—
5.1	Konditionierung <i>Conditioning</i>		—
	Gerade gerichtete Prüfstücke <i>Straightened test pieces</i>		
	Dauer (h) <i>Duration (h)</i>	≥ 16	—
	Temperatur <i>Temperature</i>	23 ± 5	—
	Prüfbedingungen <i>Test conditions</i>		—
5.2.1	Außendurchmesser der Prüfstücke (mm) <i>Outer diameter of test pieces (mm)</i>	15,9	—
	Aufbringung in Bündeln <i>Mounting as bundles</i>	nein/no	—
	Probenanzahl gesamt <i>Number of samples</i>	3	—
6	Messergebnisse <i>Test results</i>	Muster /Sample 1	—
	Kleinstwert der Transmission (%) <i>Minimum value of transmission (%)</i>	94.8 %	
6.1	Anzahl der Bündel (N2) <i>Number of bundles (N2)</i>	---	—
	Temperatur im Prüfraum (°C) <i>Temperature test chamb. (°C)</i>	25 ± 5 22,7	—



	Verlauf der Transmission während der Prüfung <i>Course of transmission during testing</i>	
		
	Ergänzende Information <i>Supplementary information</i>	



A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>
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Prüf- und Messmittel / Testing and measuring equipment:					
No.	In Use	Inventory-No.	Instrument	Type	Manufacturer
A	X	7000607	Kammer zur Rauchdichteprüfung <i>Chamber for testing the smoke density</i>	Rauchdichteprüfkammer (27m³) <i>Smoke density test chamber</i>	Dörrhöfer
A	X	7000634	Lichtquelle (Sender) <i>Light source (transmitter)</i>	DLH4/DL100 12V	Dedo Weigert Film GmbH
A	X	7000635	Lichtsensorm (Empfänger) <i>Light sensor (receiver)</i>	Lichtsensorm (Empfänger). Silizium Photozelle gemäß DIN EN 61034-1. Typ RDE02	Taurus
A	X	7000636	Umluft-Ventilator <i>Circulation fan</i>	EZR 30/6 B	Maico
A	X	7000637 bzw. 7000638	Halter für Verbrennungsproben <i>Holder for combustion tests</i>	Probenhalter	Dörrhöfer
A	X	7000639 bzw. 7000640	Gefäß für (flüssige) Feuerquelle <i>Vessel for (liquid) fire source</i>	Verbrennungstrog	Dörrhöfer
A	X	7000630	Prüf-/Auswertesoftware <i>Test / evaluation software</i>	Logger 2016, Prüf-/Auswertesoftware TMC.300.100.S	Taurus

END OF TEST REPORT



VDE Prüfbericht / VDE Test Report

Prüfbericht Nr. Report No.	257286-TL6-2
VDE-Aktenzeichen VDE File No.	5012507-9601-0001/257286
Ausstellungsdatum Date of issue.....	2019-01-10
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfört / Adresse Testing location/ address	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	Biniaris An.-Kouroupis An. Ltd
Auftraggeber Adresse Applicant's address	Solomos; 20100 CORINTH; GREECE
Angewandte Norm(en) Applied standard(s)	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + A1:2013
Art des Prüflings Test item description	Brandverhalten allgemein General fire behaviour
Warenzeichen Trade Mark	N/A
Typenbezeichnung(en) Type reference(s)	RIGID PIPE HFFR 320N, 20mm Type
Bemessungsdaten Ratings	N/A

Haftungsausschluss / Disclaimer:

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.
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Prüfbericht Nr. Report No.:	257286-TL6-2	Seite Page	1	von of	6
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Zustand des Prüfmusters Test sample condition	☒	Unbeschädigtes Prüfmuster Non-damaged sample	
		Bemerkung / Remark:	
Wareneingang Prüfmuster Sample entry date	2018-12-13		
Datum der Durchführung der Prüfung(en) Date (s) of performance of test(s)	Siehe einzelne Prüfabschnitte See each test section		
Geprüft und ausgestellt von: Tested by			
Name / Name, Unterschrift / Signature	(Autorisierung des Prüfberichtes Authorization of test report)		
Funktion / Function	Prüfingenieur / Testing engineer		H. Schneider
Überprüft von / Verified by			
Name / Name, Unterschrift / Signature			
Funktion / Function	Reviewer		D. Staemmler
Fertigungsstätte(n) Factory(ies)			
Mögliche Prüfergebnisse Possible test case verdicts:			
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A		
Prüfung erfüllt (positiv) Test object does meet the requirement	P (Pass)		
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)		
Abschließendes Prüfergebnis Final Verdict:	☐	P	☐ F
Bemerkung / Remark	Keine gesamtheitlichen Prüfanforderungen festgelegt No overall test requirements defined		

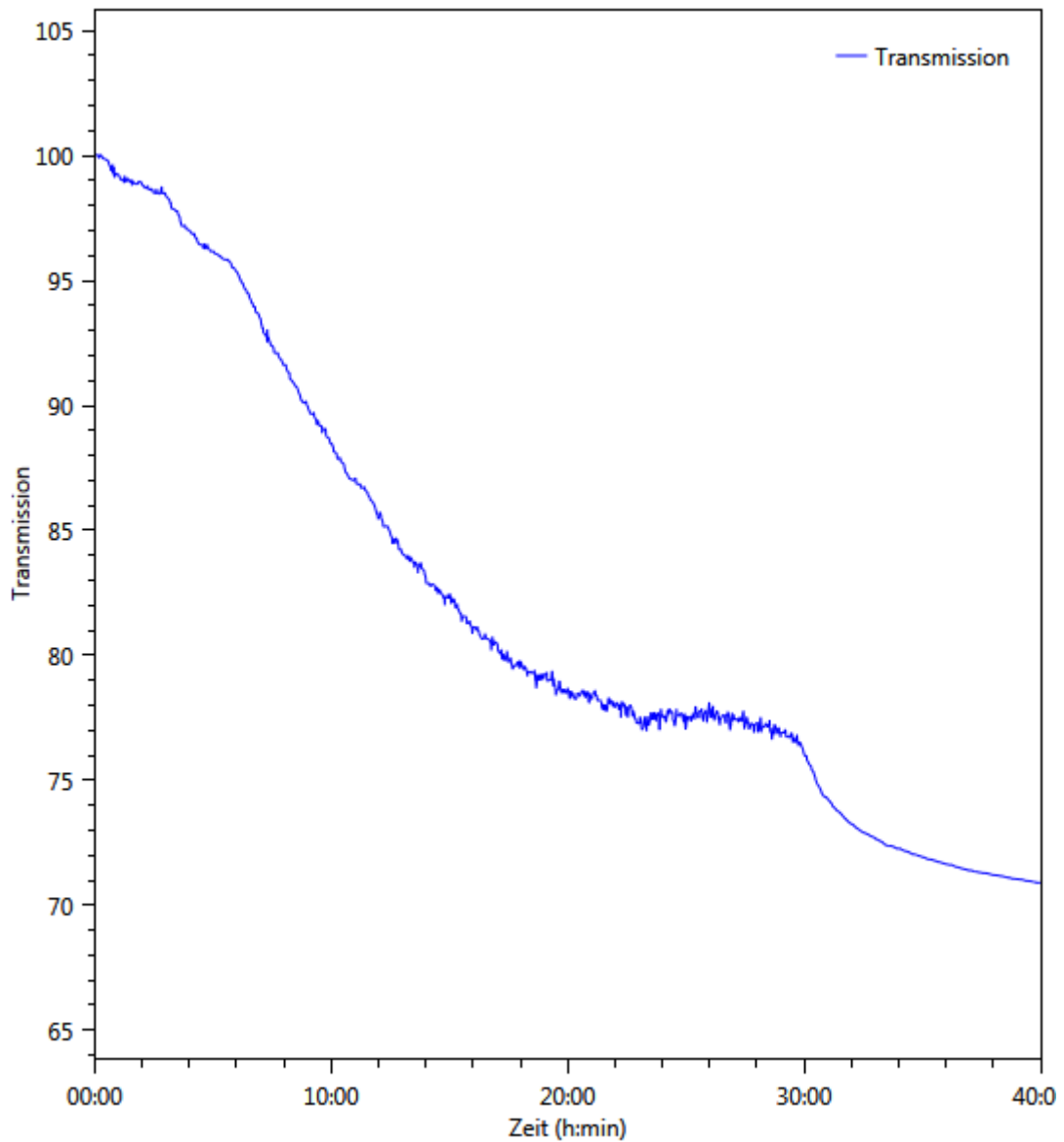


	ÜBERSICHT DER DURCHGEFÜHRTEN PRÜFUNGEN OVERVIEW OF PERFORMED TESTS		—
Nr. No.	Prüfgrundlage / Test standard	Prüfbezeichnung / Description of test	
A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>	



A	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements</i>		—
	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + EN 61034-2/ A1:2013 (IEC 61034-2:2005 + A1:2013)		—
	Datum der Durchführung der Prüfung <i>Date of performance of test:</i>	2019-01-10	—
5.1	Konditionierung <i>Conditioning</i>		—
	Gerade gerichtete Prüfstücke <i>Straightened test pieces</i>		
	Dauer (h) <i>Duration (h)</i>	≥ 16	—
	Temperatur <i>Temperature</i>	23 ± 5	—
	Prüfbedingungen <i>Test conditions</i>		—
5.2.1	Außendurchmesser der Prüfstücke (mm) <i>Outer diameter of test pieces (mm)</i>	19,9	—
	Aufbringung in Bündeln <i>Mounting as bundles</i>	nein/no	—
	Probenanzahl gesamt <i>Number of samples</i>	3	—
6	Messergebnisse <i>Test results</i>	Muster /Sample 1	—
	Kleinstwert der Transmission (%) <i>Minimum value of transmission (%)</i>	70.9 %	
6.1	Anzahl der Bündel (N2) <i>Number of bundles (N2)</i>	---	—
	Temperatur im Prüfraum (°C) <i>Temperature test chamb. (°C)</i>	25 ± 5 23	—



Verlauf der Transmission während der Prüfung Course of transmission during testing																							
 The graph displays the transmission level over a 40-hour period. The y-axis, labeled 'Transmission', ranges from 65 to 105. The x-axis, labeled 'Zeit (h:min)', ranges from 00:00 to 40:00. The transmission starts at 100 at 00:00, decreases to approximately 78 at 20:00, and then drops to about 71 at 40:00. A legend indicates the blue line represents 'Transmission'. <table><tr><th>Zeit (h:min)</th><th>Transmission</th></tr><tr><td>00:00</td><td>100</td></tr><tr><td>05:00</td><td>96</td></tr><tr><td>10:00</td><td>89</td></tr><tr><td>15:00</td><td>82</td></tr><tr><td>20:00</td><td>78</td></tr><tr><td>25:00</td><td>78</td></tr><tr><td>30:00</td><td>77</td></tr><tr><td>35:00</td><td>72</td></tr><tr><td>40:00</td><td>71</td></tr></table>				Zeit (h:min)	Transmission	00:00	100	05:00	96	10:00	89	15:00	82	20:00	78	25:00	78	30:00	77	35:00	72	40:00	71
Zeit (h:min)	Transmission																						
00:00	100																						
05:00	96																						
10:00	89																						
15:00	82																						
20:00	78																						
25:00	78																						
30:00	77																						
35:00	72																						
40:00	71																						
Ergänzende Information Supplementary information																							



A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>
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Prüf- und Messmittel / <i>Testing and measuring equipment:</i>					
No.	In Use	Inventory-No.	Instrument	Type	Manufacturer
A	X	7000607	Kammer zur Rauchdichteprüfung <i>Chamber for testing the smoke density</i>	Rauchdichteprüfkammer (27m³) <i>Smoke density test chamber</i>	Dörrhöfer
A	X	7000634	Lichtquelle (Sender) <i>Light source (transmitter)</i>	DLH4/DL100 12V	Dedo Weigert Film GmbH
A	X	7000635	Lichtsensor (Empfänger) <i>Light sensor (receiver)</i>	Lichtsensor (Empfänger). Silizium Photozelle gemäß DIN EN 61034-1. Typ RDE02	Taurus
A	X	7000636	Umluft-Ventilator <i>Circulation fan</i>	EZR 30/6 B	Maico
A	X	7000637 bzw. 7000638	Halter für Verbrennungsproben <i>Holder for combustion tests</i>	Probenhalter	Dörrhöfer
A	X	7000639 bzw. 7000640	Gefäß für (flüssige) Feuerquelle <i>Vessel for (liquid) fire source</i>	Verbrennungstrog	Dörrhöfer
A	X	7000630	Prüf-/Auswertesoftware <i>Test / evaluation software</i>	Logger 2016, Prüf-/Auswertesoftware TMC.300.100.S	Taurus

END OF TEST REPORT



VDE Prüfbericht / VDE Test Report

Prüfbericht Nr. Report No.	257286-TL6-3
VDE-Aktenzeichen VDE File No.	5012507-9601-0001/257286
Ausstellungsdatum Date of issue.....	2019-01-10
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfört / Adresse Testing location/ address	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	Biniaris An.-Kouroupis An. Ltd
Auftraggeber Adresse Applicant's address	Solomos; 20100 CORINTH; GREECE
Angewandte Norm(en) Applied standard(s)	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + A1:2013
Art des Prüflings Test item description	Brandverhalten allgemein General fire behaviour
Warenzeichen Trade Mark	N/A
Typenbezeichnung(en) Type reference(s)	RIGID PIPE HFFR 320N, 25mm Type
Bemessungsdaten Ratings	N/A

Haftungsausschluss / Disclaimer:

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.
This test report contains the result of a single investigation carried out on the product submitted. A sample of this product was tested to determine the accordance with the thereafter listed standards or clauses of standards resp.
The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below. Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.

Prüfbericht Nr. Report No.:	257286-TL6-3	Seite Page	1	von of	6
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Zustand des Prüfmusters Test sample condition	☒	Unbeschädigtes Prüfmuster Non-damaged sample	
		Bemerkung / Remark:	
Wareneingang Prüfmuster Sample entry date	2018-12-13		
Datum der Durchführung der Prüfung(en) Date (s) of performance of test(s)	Siehe einzelne Prüfabschnitte See each test section		
Geprüft und ausgestellt von: Tested by			
Name / Name, Unterschrift / Signature	(Autorisierung des Prüfberichtes Authorization of test report)		 H. Schneider
Funktion / Function	Prüfingenieur / Testing engineer		
Überprüft von / Verified by			
Name / Name, Unterschrift / Signature			 D. Staemmler
Funktion / Function	Reviewer		
Fertigungsstätte(n) Factory(ies)			
Mögliche Prüfergebnisse Possible test case verdicts:			
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A		
Prüfung erfüllt (positiv) Test object does meet the requirement	P (Pass)		
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)		
Abschließendes Prüfergebnis Final Verdict:	☐	P	☐ F
Bemerkung / Remark	Keine gesamtheitlichen Prüfanforderungen festgelegt No overall test requirements defined		

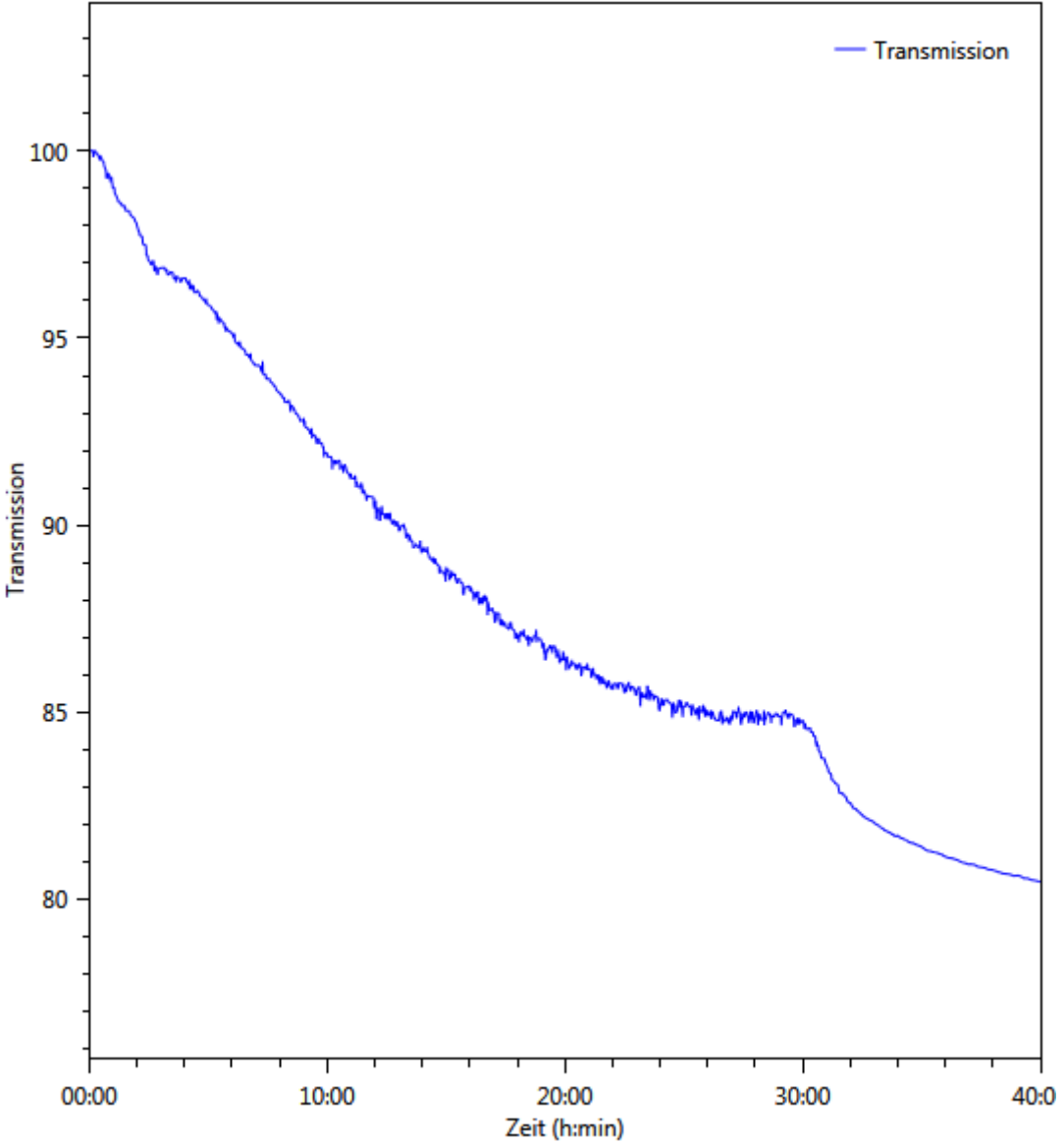


	ÜBERSICHT DER DURCHGEFÜHRTEN PRÜFUNGEN OVERVIEW OF PERFORMED TESTS		—
Nr. No.	Prüfgrundlage / Test standard	Prüfbezeichnung / Description of test	
A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>	



A	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements</i>		—
	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + EN 61034-2/ A1:2013 (IEC 61034-2:2005 + A1:2013)		—
	Datum der Durchführung der Prüfung <i>Date of performance of test:</i>	2019-01-10	—
5.1	Konditionierung <i>Conditioning</i>		—
	Gerade gerichtete Prüfstücke <i>Straightened test pieces</i>		
	Dauer (h) <i>Duration (h)</i>	≥ 16	—
	Temperatur <i>Temperature</i>	23 ± 5	—
	Prüfbedingungen <i>Test conditions</i>		—
5.2.1	Außendurchmesser der Prüfstücke (mm) <i>Outer diameter of test pieces (mm)</i>	25,6	—
	Aufbringung in Bündeln <i>Mounting as bundles</i>	nein/no	—
	Probenanzahl gesamt <i>Number of samples</i>	2	—
6	Messergebnisse <i>Test results</i>	Muster /Sample 1	—
	Kleinstwert der Transmission (%) <i>Minimum value of transmission (%)</i>	80.5 %	
6.1	Anzahl der Bündel (N2) <i>Number of bundles (N2)</i>	---	—
	Temperatur im Prüfraum (°C) <i>Temperature test chamb. (°C)</i>	25 ± 5 23,5	—



	Verlauf der Transmission während der Prüfung <i>Course of transmission during testing</i>		
			
	Ergänzende Information <i>Supplementary information</i>		



A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>
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Prüf- und Messmittel / Testing and measuring equipment:					
No.	In Use	Inventory-No.	Instrument	Type	Manufacturer
A	X	7000607	Kammer zur Rauchdichteprüfung <i>Chamber for testing the smoke density</i>	Rauchdichteprüfkammer (27m³) <i>Smoke density test chamber</i>	Dörrhöfer
A	X	7000634	Lichtquelle (Sender) <i>Light source (transmitter)</i>	DLH4/DL100 12V	Dedo Weigert Film GmbH
A	X	7000635	Lichtsensor (Empfänger) <i>Light sensor (receiver)</i>	Lichtsensor (Empfänger). Silizium Photozelle gemäß DIN EN 61034-1. Typ RDE02	Taurus
A	X	7000636	Umluft-Ventilator <i>Circulation fan</i>	EZR 30/6 B	Maico
A	X	7000637 bzw. 7000638	Halter für Verbrennungsproben <i>Holder for combustion tests</i>	Probenhalter	Dörrhöfer
A	X	7000639 bzw. 7000640	Gefäß für (flüssige) Feuerquelle <i>Vessel for (liquid) fire source</i>	Verbrennungstrog	Dörrhöfer
A	X	7000630	Prüf-/Auswertesoftware <i>Test / evaluation software</i>	Logger 2016, Prüf-/Auswertesoftware TMC.300.100.S	Taurus

END OF TEST REPORT



VDE Prüfbericht / VDE Test Report

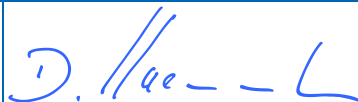
Prüfbericht Nr. Report No.	257286-TL6-4
VDE-Aktenzeichen VDE File No.	5012507-9601-0001/257286
Ausstellungsdatum Date of issue.....	2019-01-10
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfört / Adresse Testing location/ address	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	Biniaris An.-Kouroupis An. Ltd
Auftraggeber Adresse Applicant's address	Solomos; 20100 CORINTH; GREECE
Angewandte Norm(en) Applied standard(s)	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + A1:2013
Art des Prüflings Test item description	Brandverhalten allgemein General fire behaviour
Warenzeichen Trade Mark	N/A
Typenbezeichnung(en) Type reference(s)	RIGID PIPE HFFR 320N, 32mm Type
Bemessungsdaten Ratings	N/A

Haftungsausschluss / Disclaimer:

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.
This test report contains the result of a single investigation carried out on the product submitted. A sample of this product was tested to determine the accordance with the thereafter listed standards or clauses of standards resp.
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Prüfbericht Nr. Report No.:	257286-TL6-4	Seite Page	1	von of	6
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Zustand des Prüfmusters Test sample condition	☒	Unbeschädigtes Prüfmuster Non-damaged sample	
		Bemerkung / Remark:	
Wareneingang Prüfmuster Sample entry date	2018-12-13		
Datum der Durchführung der Prüfung(en) Date (s) of performance of test(s)	Siehe einzelne Prüfabschnitte See each test section		
Geprüft und ausgestellt von: Tested by			
Name / Name, Unterschrift / Signature	(Autorisierung des Prüfberichtes Authorization of test report)		
Funktion / Function	Prüfingenieur / Testing engineer		H. Schneider
Überprüft von / Verified by			
Name / Name, Unterschrift / Signature			
Funktion / Function	Reviewer		D. Staemmler
Fertigungsstätte(n) Factory(ies)			
Mögliche Prüfergebnisse Possible test case verdicts:			
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A		
Prüfung erfüllt (positiv) Test object does meet the requirement	P (Pass)		
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)		
Abschließendes Prüfergebnis Final Verdict:	☐	P	☐ F
Bemerkung / Remark	Keine gesamtheitlichen Prüfanforderungen festgelegt No overall test requirements defined		

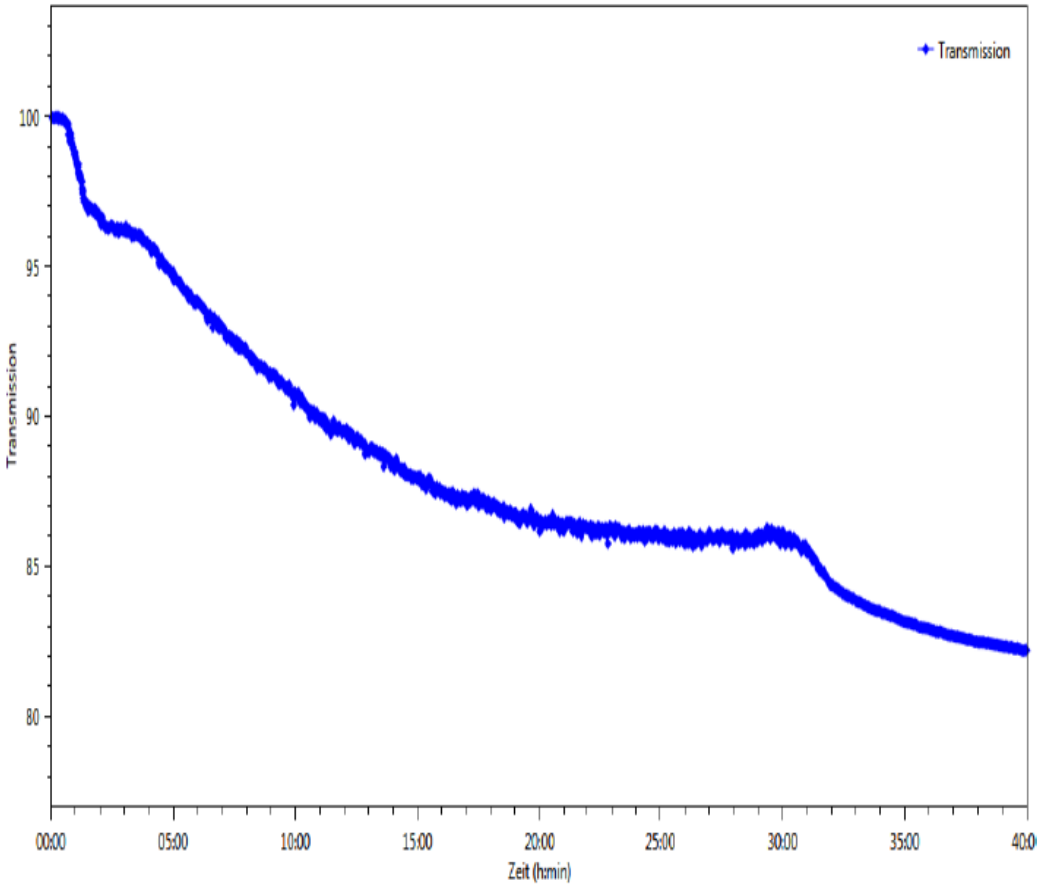


	ÜBERSICHT DER DURCHGEFÜHRTEN PRÜFUNGEN OVERVIEW OF PERFORMED TESTS		—
Nr. No.	Prüfgrundlage / Test standard	Prüfbezeichnung / Description of test	
A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>	



A	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements</i>		—
	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + EN 61034-2/ A1:2013 (IEC 61034-2:2005 + A1:2013)		—
	Datum der Durchführung der Prüfung <i>Date of performance of test:</i>	2019-01-10	—
5.1	Konditionierung <i>Conditioning</i>		—
	Gerade gerichtete Prüfstücke <i>Straightened test pieces</i>		
	Dauer (h) <i>Duration (h)</i>	≥ 16	—
	Temperatur <i>Temperature</i>	23 ± 5	—
	Prüfbedingungen <i>Test conditions</i>		—
5.2.1	Außendurchmesser der Prüfstücke (mm) <i>Outer diameter of test pieces (mm)</i>	31,6	—
	Aufbringung in Bündeln <i>Mounting as bundles</i>	nein	—
	Probenanzahl gesamt <i>Number of samples</i>	2	—
6	Messergebnisse <i>Test results</i>	Muster /Sample 1	—
	Kleinstwert der Transmission (%) <i>Minimum value of transmission (%)</i>	82,2	
6.1	Anzahl der Bündel (N2) <i>Number of bundles (N2)</i>	---	—
	Temperatur im Prüfraum (°C) <i>Temperature test chamb. (°C)</i>	25 ± 5 22,3	—



	Verlauf der Transmission während der Prüfung <i>Course of transmission during testing</i>		
			
	Ergänzende Information <i>Supplementary information</i>		



A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>
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Prüf- und Messmittel / <i>Testing and measuring equipment:</i>					
No.	In Use	Inventory-No.	Instrument	Type	Manufacturer
A	X	7000607	Kammer zur Rauchdichteprüfung <i>Chamber for testing the smoke density</i>	Rauchdichteprüfkammer (27m³) <i>Smoke density test chamber</i>	Dörrhöfer
A	X	7000634	Lichtquelle (Sender) <i>Light source (transmitter)</i>	DLH4/DL100 12V	Dedo Weigert Film GmbH
A	X	7000635	Lichtsensorm (Empfänger) <i>Light sensor (receiver)</i>	Lichtsensorm (Empfänger). Silizium Photozelle gemäß DIN EN 61034-1. Typ RDE02	Taurus
A	X	7000636	Umluft-Ventilator <i>Circulation fan</i>	EZR 30/6 B	Maico
A	X	7000637 bzw. 7000638	Halter für Verbrennungsproben <i>Holder for combustion tests</i>	Probenhalter	Dörrhöfer
A	X	7000639 bzw. 7000640	Gefäß für (flüssige) Feuerquelle <i>Vessel for (liquid) fire source</i>	Verbrennungstrog	Dörrhöfer
A	X	7000630	Prüf-/Auswertesoftware <i>Test / evaluation software</i>	Logger 2016, Prüf-/Auswertesoftware TMC.300.100.S	Taurus

END OF TEST REPORT

TEST REPORT
EN 61386-1 and EN 61386-22
Conduit systems for cable management
Part 1: General requirements
Part 22: Particular requirements — Pliable conduit systems

Report Number : 0040.004.3.01

Date of issue : 08/05/2017

Total number of pages : 2

Applicant's name : BINIARIS AN. – KOUROUPIS AN. Ltd

Address : Solomos, GR- 201 00 Corinth, Greece

Test specification:

Standard(s) : EN 61386-1:2008, EN 61386-22:2004+A11:2010

Test procedure : As above mentioned standards

Non-standard test method : NA

Test Report Form No : TRF EN 61386-22 V2.0

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

Master TRF : 15/04/2017

Test item description : Pliable corrugated conduit

Trade Mark : 

Manufacturer : Same as applicant

Model/Type reference : COMBO Spiral HFFR

Tested by (name + signature) :

AGAMEMNON FRETZAGIAS
MECHANICAL ENGINEER NTUA

Approved by (name + signature) :

ANTONIOS POLITIS
ELECTRICAL ENGINEER
LAB MANAGER

Test item particulars :

Classification code	2232
Material	Non-metallic
Resistance to compression.....	2-Light
Resistance to impact.....	2-Light
Lower Temperature range	3 (-15 °C)
Upper Temperature range.....	2 (90 °C)
Resistance to bending	2 - Pliable
Electrical characteristics	2 - With electrical insulating characteristic
Protection against ingress of solid objects	NA
Protection against ingress of water	NA
Resistance against corrosion	NA
Tensile strength	NA
Resistance to flame propagation.....	1- Non-flame propagating
Suspended load capacity	NA



VDE Prüfbericht / VDE Test Report

Prüfbericht Nr. Report No.	248063-TL6-1
VDE-Aktenzeichen VDE File No.	5012507-9601-0001/248063
Ausstellungsdatum Date of issue.....	2018-05-14
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfört / Adresse Testing location/ address	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	Biniaris An.-Kouroupis An. Ltd
Auftraggeber Adresse Applicant's address	Solomos; 20100 CORINTHIAS; GREECE
Angewandte Norm(en) Applied standard(s)	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + A1:2013
Art des Prüflings Test item description	Kabelschutzrohr Conduit
Warenzeichen Trade Mark	N/A
Typenbezeichnung(en) Type reference(s)	COMBO HFFR 320N 16
Bemessungsdaten Ratings	N/A

Haftungsausschluss / Disclaimer:

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.
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Prüfbericht Nr. Report No.:	248063-TL6-1	Seite Page	1	von of	6
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Zustand des Prüfmusters Test sample condition	☒	Unbeschädigtes Prüfmuster Non-damaged sample	
		Bemerkung / Remark:	
Wareneingang Prüfmuster Sample entry date	2018-02-28		
Datum der Durchführung der Prüfung(en) Date (s) of performance of test(s)	Siehe einzelne Prüfabschnitte See each test section		
Geprüft und ausgestellt von: Tested by			
Name / Name, Unterschrift / Signature	(Autorisierung des Prüfberichtes Authorization of test report)		
Funktion / Function	Prüfingenieur / Testing engineer		A. Idrissi
Überprüft von / Verified by			
Name / Name, Unterschrift / Signature			
Funktion / Function	Reviewer		D. Staemmler
Fertigungsstätte(n) Factory(ies)			
Mögliche Prüfergebnisse Possible test case verdicts:			
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A		
Prüfung erfüllt (positiv) Test object does meet the requirement	P (Pass)		
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)		
Abschließendes Prüfergebnis Final Verdict:	☐	P	☐ F
Bemerkung / Remark	Keine gesamtheitlichen Prüfanforderungen festgelegt No overall test requirements defined		



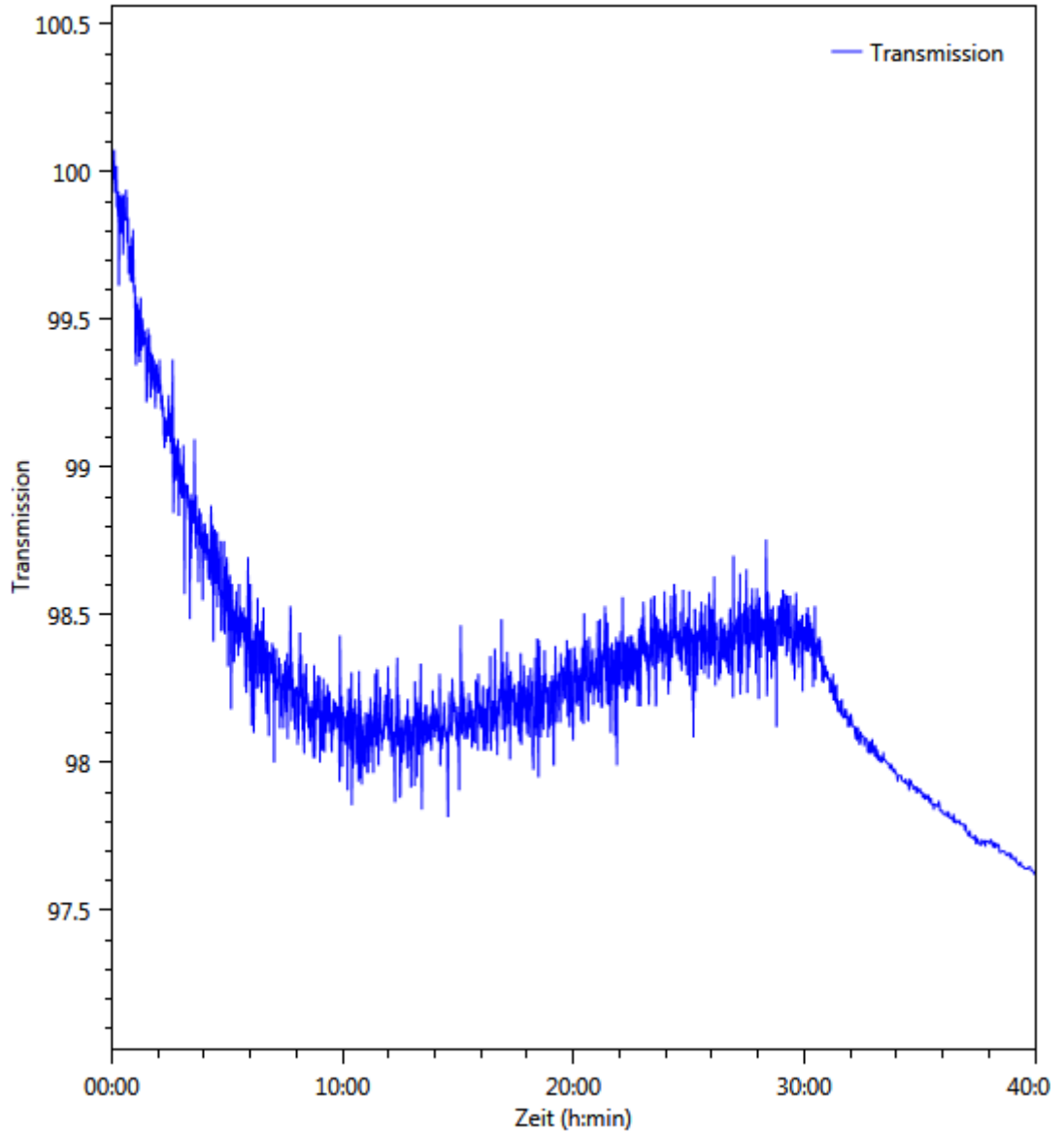
	ÜBERSICHT DER DURCHGEFÜHRTEN PRÜFUNGEN OVERVIEW OF PERFORMED TESTS		—
Nr. No.	Prüfgrundlage / Test standard	Prüfbezeichnung / Description of test	

A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>	
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A	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements</i>		—
	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + EN 61034-2/ A1:2013 (IEC 61034-2:2005 + A1:2013)		—
	Datum der Durchführung der Prüfung <i>Date of performance of test:</i>	2018-04-12	—
5.1	Konditionierung <i>Conditioning</i>		—
	Gerade gerichtete Prüfstücke <i>Straightened test pieces</i>		
	Dauer (h) <i>Duration (h)</i>	≥ 16	—
	Temperatur <i>Temperature</i>	23 ± 5	—
	Prüfbedingungen <i>Test conditions</i>		—
5.2.1	Außendurchmesser der Prüfstücke (mm) <i>Outer diameter of test pieces (mm)</i>	15.7	—
	Aufbringung in Bündeln <i>Mounting as bundles</i>	nein/no	—
	Probenanzahl gesamt <i>Number of samples</i>	3	—
6	Messergebnisse <i>Test results</i>	Muster /Sample 1	—
	Kleinstwert der Transmission (%) <i>Minimum value of transmission (%)</i>	97.6 %	
6.1	Anzahl der Bündel (N2) <i>Number of bundles (N2)</i>	---	—
	Temperatur im Prüfraum (°C) <i>Temperature test chamb. (°C)</i>	25 ± 5 22.9	—



	Verlauf der Transmission während der Prüfung <i>Course of transmission during testing</i>	
		
	Ergänzende Information <i>Supplementary information</i>	



A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>
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Prüf- und Messmittel / Testing and measuring equipment:					
No.	In Use	Inventory-No.	Instrument	Type	Manufacturer
A	X	7000607	Kammer zur Rauchdichteprüfung <i>Chamber for testing the smoke density</i>	Rauchdichteprüfkammer (27m³) <i>Smoke density test chamber</i>	Dörrhöfer
A	X	7000634	Lichtquelle (Sender) <i>Light source (transmitter)</i>	DLH4/DL100 12V	Dedo Weigert Film GmbH
A	X	7000635	Lichtsensorm (Empfänger) <i>Light sensor (receiver)</i>	Lichtsensorm (Empfänger). Silizium Photozelle gemäß DIN EN 61034-1. Typ RDE02	Taurus
A	X	7000636	Umluft-Ventilator <i>Circulation fan</i>	EZR 30/6 B	Maico
A	X	7000637 bzw. 7000638	Halte für Verbrennungsproben <i>Holder for combustion tests</i>	Probenhalter	Dörrhöfer
A	X	7000639 bzw. 7000640	Gefäß für (flüssige) Feuerquelle <i>Vessel for (liquid) fire source</i>	Verbrennungstrog	Dörrhöfer
A	X	7000630	Prüf-/Auswertesoftware <i>Test / evaluation software</i>	Logger 2016, Prüf-/Auswertesoftware TMC.300.100.S	Taurus

END OF TEST REPORT



VDE Prüfbericht / VDE Test Report

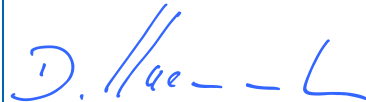
Prüfbericht Nr. Report No. :	248063-TL6-2
VDE-Aktenzeichen VDE File No. :	5012507-9601-0001/248063
Ausstellungsdatum Date of issue..... :	2018-05-14
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfört / Adresse Testing location/ address	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	Biniaris An.-Kouroupis An. Ltd
Auftraggeber Adresse Applicant's address	Solomos; 20100 CORINTHIAS; GREECE
Angewandte Norm(en) Applied standard(s)	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + A1:2013
Art des Prüflings Test item description	Kabelschutzrohr Conduit
Warenzeichen Trade Mark	N/A
Typenbezeichnung(en) Type reference(s)	COMBO HFFR 320N 32
Bemessungsdaten Ratings	N/A

Haftungsausschluss / Disclaimer:

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.
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Prüfbericht Nr. Report No.:	248063-TL6-2	Seite Page	1	von of	6
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Zustand des Prüfmusters Test sample condition	☒	Unbeschädigtes Prüfmuster Non-damaged sample	
		Bemerkung / Remark:	
Wareneingang Prüfmuster Sample entry date	2018-02-28		
Datum der Durchführung der Prüfung(en) Date (s) of performance of test(s)	Siehe einzelne Prüfabschnitte See each test section		
Geprüft und ausgestellt von: Tested by			
Name / Name, Unterschrift / Signature	(Autorisierung des Prüfberichtes Authorization of test report)		 A. Idrissi
Funktion / Function	Prüfingenieur / Testing engineer		
Überprüft von / Verified by			
Name / Name, Unterschrift / Signature			
Funktion / Function	Reviewer		D. Staemmler
Fertigungsstätte(n) Factory(ies)			
Mögliche Prüfergebnisse Possible test case verdicts:			
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A		
Prüfung erfüllt (positiv) Test object does meet the requirement	P (Pass)		
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)		
Abschließendes Prüfergebnis Final Verdict:	☐	P	☐ F
Bemerkung / Remark	Keine gesamtheitlichen Prüfanforderungen festgelegt No overall test requirements defined		



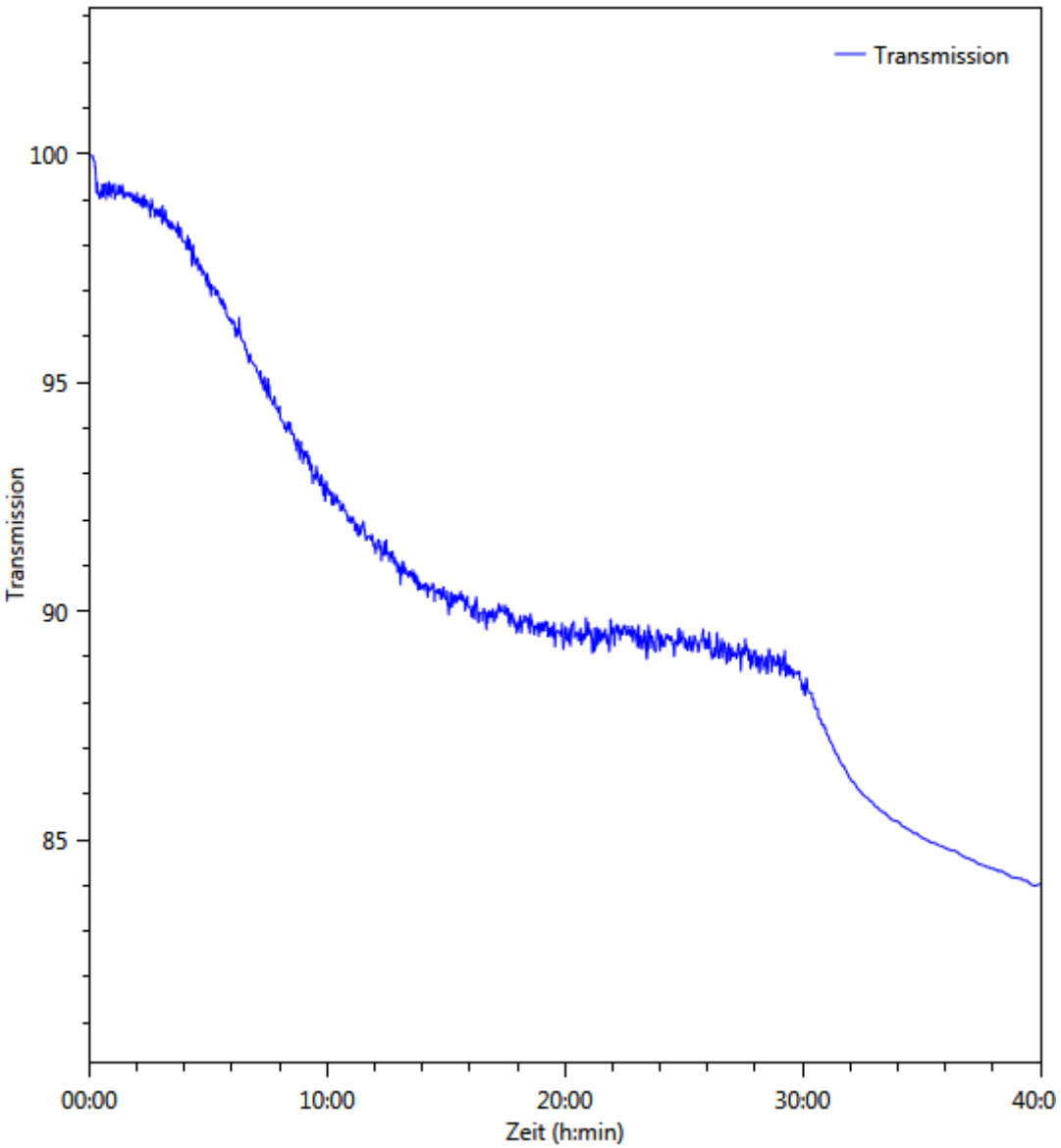
	ÜBERSICHT DER DURCHGEFÜHRTEN PRÜFUNGEN OVERVIEW OF PERFORMED TESTS		—
Nr. No.	Prüfgrundlage / Test standard	Prüfbezeichnung / Description of test	

A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>	
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A	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements</i>		—
	DIN EN 61034-2 (VDE 0482-1034-2):2014-11; EN 61034-2:2005 + EN 61034-2/ A1:2013 (IEC 61034-2:2005 + A1:2013)		—
	Datum der Durchführung der Prüfung <i>Date of performance of test:</i>	2018-04-12	—
5.1	Konditionierung <i>Conditioning</i>		—
	Gerade gerichtete Prüfstücke <i>Straightened test pieces</i>		
	Dauer (h) <i>Duration (h)</i>	≥ 16	—
	Temperatur <i>Temperature</i>	23 ± 5	—
	Prüfbedingungen <i>Test conditions</i>		—
5.2.1	Außendurchmesser der Prüfstücke (mm) <i>Outer diameter of test pieces (mm)</i>	31.2	—
	Aufbringung in Bündeln <i>Mounting as bundles</i>	nein/no	—
	Probenanzahl gesamt <i>Number of samples</i>	2	—
6	Messergebnisse <i>Test results</i>	Muster /Sample 1	—
	Kleinstwert der Transmission (%) <i>Minimum value of transmission (%)</i>	84.0 %	
6.1	Anzahl der Bündel (N2) <i>Number of bundles (N2)</i>	---	—
	Temperatur im Prüfraum (°C) <i>Temperature test chamb. (°C)</i>	25 ± 5 23.1	—



	Verlauf der Transmission während der Prüfung <i>Course of transmission during testing</i>		
			
	Ergänzende Information <i>Supplementary information</i>		



A	DIN EN 61034-2 (VDE 0482-1034-2):2014-11 EN 61034-2:2005 + EN 61034-2/A1:2013 (IEC 61034-2:2005 + A1:2013)	Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen – Teil 2: Prüfverfahren und Anforderungen <i>Measurement of smoke density of cables burning under defined conditions – Part2: Test procedure and requirements</i>
---	---	---

Prüf- und Messmittel / Testing and measuring equipment:					
No.	In Use	Inventory-No.	Instrument	Type	Manufacturer
A	X	7000607	Kammer zur Rauchdichteprüfung <i>Chamber for testing the smoke density</i>	Rauchdichteprüfkammer (27m³) <i>Smoke density test chamber</i>	Dörrhöfer
A	X	7000634	Lichtquelle (Sender) <i>Light source (transmitter)</i>	DLH4/DL100 12V	Dedo Weigert Film GmbH
A	X	7000635	Lichtsensorm (Empfänger) <i>Light sensor (receiver)</i>	Lichtsensorm (Empfänger). Silizium Photozelle gemäß DIN EN 61034-1. Typ RDE02	Taurus
A	X	7000636	Umluft-Ventilator <i>Circulation fan</i>	EZR 30/6 B	Maico
A	X	7000637 bzw. 7000638	Halter für Verbrennungsproben <i>Holder for combustion tests</i>	Probenhalter	Dörrhöfer
A	X	7000639 bzw. 7000640	Gefäß für (flüssige) Feuerquelle <i>Vessel for (liquid) fire source</i>	Verbrennungstrog	Dörrhöfer
A	X	7000630	Prüf-/Auswertesoftware <i>Test / evaluation software</i>	Logger 2016, Prüf-/Auswertesoftware TMC.300.100.S	Taurus

END OF TEST REPORT



VDE Prüfbericht / VDE Test Report

Prüfbericht Nr. Report No.:	248063-TL6-3
VDE-Aktenzeichen VDE File No.:	5012507-9601-0001/248063
Ausstellungsdatum Date of issue.....:	2018-05-14
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfört / Adresse Testing location/ address	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	Biniaris An.-Kouroupis An. Ltd
Auftraggeber Adresse Applicant's address	Solomos; 20100 CORINTHIAS; GREECE
Angewandte Norm(en) Applied standard(s)	DIN EN 60754-2 (VDE 0482 Teil 754-2):2015-08; EN 60754-2:2014 (IEC 60754-1:2011) DIN EN 60754-1(VDE 0482 Teil 754-1):2015-08; EN 60754-1:2014 (IEC 60754-1:2011)
Art des Prüflings Test item description	Kabelschutzrohr Conduit
Warenzeichen Trade Mark	N/A
Typenbezeichnung(en) Type reference(s)	COMBO HFFR 320N 16-32; Material: PP SE50E
Bemessungsdaten Ratings	N/A

Haftungsausschluss / Disclaimer:

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.
This test report contains the result of a single investigation carried out on the product submitted. A sample of this product was tested to determine the accordance with the thereafter listed standards or clauses of standards resp.
The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below. Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.

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Zustand des Prüfmusters Test sample condition	☒	Unbeschädigtes Prüfmuster Non-damaged sample		
		Bemerkung / Remark:		
Wareneingang Prüfmuster Sample entry date	2018-02-28			
Datum der Durchführung der Prüfung(en) Date (s) of performance of test(s)	2018-05-9			
Geprüft und ausgestellt von: Tested by.....				
Name / Name, Unterschrift / Signature	(Autorisierung des Prüfberichtes Authorization of test report)		 A. Idrissi	
Funktion / Function	Prüfingenieur / Testing engineer			
Überprüft von / Verified by.....				
Name / Name, Unterschrift / Signature			 D. Staemmler	
Funktion / Function	Reviewer			
Fertigungsstätte(n) Factory(ies).....				
Mögliche Prüfergebnisse Possible test case verdicts:				
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A			
Prüfung erfüllt (positiv) Test object does meet the requirement..... :	P (Pass)			
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)			
Abschließendes Prüfergebnis Final Verdict:	☐	P	☐	F
Bemerkung / Remark.....				



ÜBERSICHT DER DURCHGEFÜHRTEN PRÜFUNGEN OVERVIEW OF PERFORMED TESTS		—
Nr. No.	Prüfgrundlage / Test standard	Prüfbezeichnung / Description of test
A	DIN EN 60754-2 (VDE 0482 Teil 754-2):2015-08; EN 60754-2:2014 (IEC 60754-1:2011)	Prüfung der bei der Verbrennung der Werkstoffe von Kabeln und isolierten Leitungen entstehenden Gase - Teil 2: Bestimmung der Azidität (durch Messung des pH-Wertes) und Leitfähigkeit <i>Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity</i>
B	DIN EN 60754-1 (VDE 0482 Teil 754-1):2015-08; EN 60754-1:2014 (IEC 60754-1:2011)	Prüfung der bei der Verbrennung der Werkstoffe von Kabeln und isolierten Leitungen entstehenden Gase - Teil 1: Bestimmung des Gehaltes an Halogenwasserstoffsäure <i>Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content</i>



A	Prüfung der bei der Verbrennung der Werkstoffe von Kabeln und isolierten Leitungen entstehenden Gase - Teil 2: Bestimmung der Azidität (durch Messung des pH-Wertes) und Leitfähigkeit <i>Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity</i> DIN EN 6075-4-2 (VDE 0482 Teil 754-2):2015-08; EN 60754-2:2014			
Ref. Ref.	Prüfanforderung <i>Requirement + Test</i>		Ergebnis – Anmerkung <i>Result – Remark</i>	Beurteilung <i>Verdict</i>
6.2	<u>Konditionierung</u> <i>Conditioning</i> - Dauer (h) ≥ 16 - Rel. Luftfeuchtigkeit (%) 50 ± 5 - Temperatur (°C) 23 ± 2 <i>Duration</i> <i>Rel. humidity</i> <i>Temperature</i>			
8.2	<u>Prüfbedingungen</u> <i>Test conditions</i> - Vereinfachtes Verfahren <i>Simplified method</i>		Nein <i>No</i>	



8	<u>Messergebnisse</u> <u>Test results</u> Material / Material: PP SE50E Gewichteter pH-Wert <i>Weighted pH-value</i> Gewichtete Leitfähigkeit (µS/mm) <i>Weighted conductivity</i>		6,14 0,81	N/A
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Aufbauelement <i>Construction element</i>	Stoff-Nr. <i>Substance number</i>	pH-Wert <i>pH- Value</i>			Mittelwert <i>Mean value</i>	Leitfähigkeit <i>Conductivity [µS/mm]</i>			Mittelwert <i>Mean value</i>
		Wert <i>Value</i> 1	Wert <i>Value</i> 2	Wert <i>Value</i> 3		Wert <i>Value</i> 1	Wert <i>Value</i> 2	Wert <i>Value</i> 3	
Kabelschutzrohr gr <i>Conduit GY</i>	PPSE50E	6,13	6,11	6,17	6,14	0,83	0,79	0,82	0,81



Prüfbericht Nr. <i>Report No.:</i>	248063-TL6-3	Seite <i>Page</i>	6	von <i>of</i>	7
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A	Prüfung der bei der Verbrennung der Werkstoffe von Kabeln und isolierten Leitungen entstehenden Gase - Teil 2: Bestimmung der Azidität (durch Messung des pH-Wertes) und Leitfähigkeit <i>Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity</i> DIN EN 60754-2 (VDE 0482 Teil 754-2):2015-08; EN 60754-2:2014
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Prüf- und Messmittel / Testing and measuring equipment:					
No.	In Use	Inventory-No.	Instrument	Type	Manufacturer
A		1150629	Durchflussmengen-messer <i>Mass flow meter</i>	--/--	Rota Yokogawa
A	X	1150019	Durchflussmengen-messer <i>Mass flow meter</i>	--/--	Rota Yokogawa
A		5160341	Verbrennungsofen (inkl. Steuerung) <i>Tube furnace (incl. control)</i>	HZS 12/600E	Carbolite
A	X	5160485	Verbrennungsofen (inkl. Steuerung) <i>Tube furnace (incl. control)</i>	EHA 12/600B	Carbolite
A	X	5160481	Muffelofen <i>Muffle furnace</i>	ELF 11/6B/e301	Carbolite
A	X	2300007	Waage <i>Scales</i>	A200s-D1	Sartorius
A	X	5160396	Temperierbad <i>Tempering bath</i>	HAAKE A10	ThermoFischer
A	X	1301454	Temperierbad-Steuerung <i>Tempering bath control</i>	HAAKE SC100	ThermoFischer
A	X	1301556	Flüssigkeitsglas-thermometer. <i>Liquid glass thermometer</i>	N/N	Karl Schneider & Sohn
A	X	1150307	Leitfähigkeitsmessgerät <i>Conductivity meter</i>	856 Conductivity Module	Metrohm
A	X	1150318	pH-Wert-Messgerät <i>PH meter</i>	809 Titrande	Metrohm
A	X	1301917	Thermometer <i>Thermometer</i>	HH 506 RA	ΩOMEGA
A	X	1301918	Thermoelement <i>Thermocouple</i>	TJ2-NNIN-IM 30U-500-SMPW-M-SLE	ΩOMEGA
A	X	5210815	Quarzglasrohr <i>Quartz glass tube</i>	N/N	Hannes & König
A	X	1600093	Stoppuhr <i>Stopwatch</i>	N/N	BARTH

END OF TEST REPORT

Prüfbericht Nr. Report No.:	248063-TL6-3	Seite Page	7	von of	7
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EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Bends 90**

16 – 20 – 25 – 32 – 40 – 50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 61386-1/2008,
EN 61386-22/2004

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Couplings**

16 – 20 – 25 – 32 – 40 – 50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 61386-1/2008,
EN 61386-22/2004

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2108

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Inspectionable Bends 90**

16 – 20 – 25 – 32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 61386-1/2008,
EN 61386-22/2004

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Snap Clips**

16-20-25-32-40-50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386-1/2008,

EN 61386-22/2004

Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

Conformity with EC Directives is indicated by the mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduits Connection

Type designation: **Inspectionable T Joint**

16 – 20 – 25 – 32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 61386-1/2008,
EN 61386-22/2004

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Rigid

Type designation: **COMBO RIGID Light Type 320N**

16 – 20 – 25 – 32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN. 61386 - 1 / 2008

EN. 61386 - 21 / 2004

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Rigid

Type designation: **DOMO RIGID Medium Type 750N**

16 – 20 – 25 – 32 – 40 – 50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN. 61386 - 1 / 2008

EN. 61386 - 21 / 2004

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Rigid

Type designation: **FORTE RIGID Heavy Type 1250N**

16 – 20 – 25 – 32 – 40 – 50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :
EN 61386 - 1 / 2008
EN 61386-21 / 2004

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2014

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Flexible

Type designation: **COURFLEX**

10-12 – 14 – 16 – 18 – 20 – 22 – 25 – 30 – 32 – 38 – 40 – 50-62

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part. : General Requirements).

EN 61386-23 / 2004 (Part.2-3: Particular requirements for flexible conduit systems).

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable

Type designation: **SIBI SUPER**

11 – 13,5 – 16 – 23 – 29

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-2-2 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

DIN 49018 (Dimensions)

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable

Type designation: **SIBI WIRE**

11 – 13,5 – 16 – 23 – 29

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-2-2 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

DIN 49018 (Dimensions)

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable

Type designation: **TUBODIN Medium Type 750N**

11 – 13,5 – 16 – 23 – 29

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-2-2 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

DIN 49018 (Dimensions)

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable

Type designation: **COMBO SPIRAL DIN Light Type 320N**

11 – 13,5 – 16 – 23 – 29

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-22 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

DIN 49018 (Dimensions)

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable

Type designation: **COMBO SPIRAL Light Type 320N**

16 – 20 – 25 – 32

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-22 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable

Type designation: **DOMO SPIRAL Medium Type 750N**

16 – 20 – 25 – 32 – 40 – 50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-22 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Conduit System Pliable

Type designation: **FORTE SPIRAL Heavy Type 1250N**

16 – 20 – 25 – 32 – 40 – 50

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 61386 - 1 / 2008 (Conduit systems for electrical installations. Part.1 : General Requirements).

EN 61386-22 / 2004 (Part.2-2: Particular requirements for pliable conduit systems).

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Watertight Boxes IP55

Type designation: **100X100PLUS**

115X115X65

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006



Conformity with EC Directives is indicated by the CE mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Watertight Boxes IP54

Type designation: ROUND 65X35 – ROUND 80X40 – SQUARE 65X65 –
SQUARE 80X80

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Watertight Boxes IP55

Type designation: 100X100 – 120X80 – 150X110 -190X145

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Watertight Boxes IP65 Smooth Sides

Type designation: 190x145 – 245x190 – 300x215 – 380x300

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Watertight Boxes IP65 With Knock-outs

Type designation: 80x80-100x100-120x80-150x110-190x145

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

“Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits.”

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006

Conformity with EC Directives is indicated by the **CE** mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2018

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager

EC DECLARATION OF CONFORMITY

Manufacturer's name and address:

COURBI SA
GR 20100 Solomos Corinthias
Greece
Tel: +30 27410-31490
Fax: +30 27410-31618

Product: Watertight Boxes IP65 Smooth Sides IP67

Type designation: **310X230X130; 400X300X130.**

The designated product is in conformity with the European Directive 2014/35/EU including amendments.

"Council Directive of 26 February 2014 on the harmonization of the laws of the member states relating to electrical equipment designed for use within certain voltage limits."

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above mentioned EC Directive.

Standards :

EN 60670-1/2005

EN 60670-22/2006



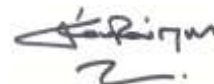
Conformity with EC Directives is indicated by the CE mark and any other required graphic symbols and markings on the product and/or its packaging and/or product catalogues.

For the company,

Date: 12.03.2019

KOUROUPIS-BINIARIS S.A.

ELECTRICAL MATERIAL INDUSTRY



Kouroupis Konstantinos
Technical Manager