DNV·GL

Certificate No:
MRE000000E
File No:
MR-E018
Job Id:
262.4-000085-2

EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

This Certificate is issued to

BAKS - Kazimierz Sielski Profesjonalne Systemy Tras Kablowych

Karczew, Poland

for
Cable Trays and Ducts (Metallic)

with type designation(s)
Cable Ladder

The product is found to comply with
EU RO Mutual Recognition Technical Requirements for Cable Trays and Ducts (Metallic)

Intended service
Cable trays and ducts intended to be used in ship's cabling systems necessary for the applications mentioned in 1.b in the TA program.

This Certificate is valid until **2023-03-12**.

Issued at **Høvik** on **2018-03-13**

DNV GL local station: **Gdansk CMC**

Approval Engineer: **Nicolay Horn**

for **DNV GL**

Digitally Signed By: Andreas Kristoffersen
Location: DNV GL Høvik, Norway

Andreas Kristoffersen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Type Designation	DOPZ
Application	Cable ladder for both indoor and outdoor installation.
Material	Hot-Dip Galvanized steel, Stainless Steel ASI304 304L, 316, 316 L, 316Ti or Stainless Steel acc to AISI and PN-EN ISO 10088
Flame Propagation	Non-flame propagation
Electrical Continuity	With electrical continuity characteristics
Electrical Conductivity	Electrical Conductivity
Temperature	Min. : -105 °C Max. : 90 °C
Impact Resistance	20 J

Product symbol	Width (mm)	Material thickness (mm)	Safe Working Load (kg / m)	Length (mm)
DOPZ100H30/3	100	5 ± 0.2 mm	According to SWL diagram in manufacturer catalogue	Max. 3000
DOPZ200H30/3	200	5 ± 0.2 mm		Max. 3000
DOPZ300H30/3	300	5 ± 0.2 mm		Max. 3000

Type Designation	DOZ
Application	Cable ladder for both indoor and outdoor installation.
Material	Hot-Dip Galvanized steel, Stainless Steel ASI304 304L, 316, 316 L, 316Ti or Stainless Steel acc to AISI and PN-EN ISO 10088
Flame Propagation	Non-flame propagation
Electrical Continuity	With electrical continuity characteristics
Electrical Conductivity	Electrical Conductivity
Temperature	Min. : -105 °C Max. : 90 °C
Impact Resistance	20 J

Total width (mm)	Width (mm	Material thickness (mm)	Safe Working Load (Kg / m)	Length (mm)
DOZ100H30/3	100	5 ± 0.2 mm, 3 ± 0.2 mm	According to SWL diagram in manufacturer catalogue	Max. 3000
DOZ200H30/3	200	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ300H30/3	300	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ400H30/3	400	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ500H30/3	500	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ600H30/3	600	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ700H30/3	700	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ800H30/3	800	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ900H30/3	900	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ1000H30/3	1000	5 ± 0.2 mm, 3 ± 0.2 mm		Max. 3000
DOZ100H40/3	100	5 ± 0.2 mm	According to SWL diagram in manufacturer catalogue	Max. 3000
DOZ200H40/3	200	5 ± 0.2 mm		Max. 3000
DOZ300H40/3	300	5 ± 0.2 mm		Max. 3000
DOZ400H40/3	400	5 ± 0.2 mm		Max. 3000
DOZ500H40/3	500	5 ± 0.2 mm		Max. 3000
DOZ600H40/3	600	5 ± 0.2 mm		Max. 3000
DOZ700H40/3	700	5 ± 0.2 mm		Max. 3000
DOZ800H40/3	800	5 ± 0.2 mm		Max. 3000
DOZ900H40/3	900	5 ± 0.2 mm		Max. 3000
DOZ1000H40/3	1000	5 ± 0.2 mm		Max. 3000

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Manufactured by

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Karczew, Poland

Application/Limitation

The installation is to be mechanically protected in accordance with DNV GL Rules and especially on weather decks in cargo hold areas and through cargo holds.

Cable ladders must not to be used as a walkway.

Type Approval documentation

Manufacturer products catalogue (products data sheets) issued 2018-02-16.

BBJ Test report nos. LA-17.108/1/E and LA-17.108/2/E issued 2017-10-25.
BAKS Protocol of Dururabillity Test doc. No. F-8.2.4-01-04/III issued 2018-02-12.

Marking of product

Manufacturer name – Type designation – Materia – Width – Height.

Other Conditions

Type tests according to IEC 61537.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or materials.

The main elements of the assessment are:
- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that design and materials used comply with type approved documents
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed annually and at renewal of this certificate.

END OF CERTIFICATE