

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Tray

with type designation(s)
RZE-P, RZE-R & RHF

Issued to

Øglænd System AS
KLEPPE, Norway

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

For installation onboard Mobile Offshore Units and Ships.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-12-31**.

Issued at **Høvik** on **2017-01-02**

DNV GL local station: **Stavanger**

Approval Engineer: **Nicolay Horn**

for **DNV GL**

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.

Job Id:
Certificate No: **TAE00001KC**

Name and place of manufacturer

Øglænd System AS
KLEPPE, Norway

Oglaend Industries SDN. BHD
Shah Alam, Malaysia

Oglaend Industries (Suzhou) Co., Ltd.
Suzhou, China

Product description

Cable ladder and accessories for ships and offshore platforms

Material categories	Oglaend material type	IEC 61537 Classification Ref 6.5.2
Untreated	N/A	0
Pregalvanized steel	PG	3
Hot dip galvanized	HDG (ISO 1461)	6
Stainless steel	SS (AISI 316L)	9D

Type: RZE-P:

Type/Width	Side piece mm	Z-Rungs mm	Weight HDG kg/m	Weight PR/SS Kg/m
RZE-P- 100	40 x 5	70 x 22 x 1,5	3,2	3,0
RZE-P- 150	40 x 5	70 x 22 x 1,5	3,4	3,2
RZE-P -200	40 x 5	70 x 22 x 1,5	3,6	3,4
RZE-P -250	40 x 5	70 x 22 x 1,5	3,9	3,6
RZE-P -300	40 x 5	70 x 22 x 1,5	4,1	3,8
RZE-P -350	40 x 5	70 x 22 x 1,5	4,3	4,0
RZE-P -400	40 x 5	70 x 22 x 1,5	4,5	4,2
RZE-P -450	40 x 5	70 x 22 x 1,5	4,7	4,4
RZE-P -500	40 x 5	70 x 22 x 1,5	5,0	4,6
RZE-P -600	40 x 5	70 x 22 x 1,5	5,4	5,0
RZE-P -650	40 x 5	70 x 22 x 1,5	5,6	5,2
RZE-P -750	40 x 5	70 x 22 x 1,5	6,0	5,7
RZE-P -900	40 x 5	70 x 22 x 1,5	6,7	6,3

Type: RZE-R:

Type/Width	Side piece mm	Z-Rungs mm	Weight HDG kg/m	Weight PR kg/m
RZE-R-100	40 x 4	70 x 22 x 1,5	2,7	2,5
RZE-R-150	40 x 4	70 x 22 x 1,5	2,9	2,7
RZE-R-200	40 x 4	70 x 22 x 1,5	3,1	2,9
RZE-R-300	40 x 4	70 x 22 x 1,5	3,4	3,2
RZE-R-350	40 x 4	70 x 22 x 1,5	3,6	3,4
RZE-R-400	40 x 4	70 x 22 x 1,5	3,8	3,5
RZE-R-450	40 x 4	70 x 22 x 1,5	4,0	3,7
RZE-R-500	40 x 4	70 x 22 x 1,5	4,1	3,9
RZE-R-600	40 x 4	70 x 22 x 1,5	4,5	4,2

Type: RHF:

Type/Width	Side piece mm	H-Rungs mm	Weight HDG Kg/m	Wight PR/SS kg/m
RHF-100	30 x 5	50 x 3	3,0	2,8
RHF-150	30 x 5	50 x 3	3,2	3,0
RHF-200	30 x 5	50 x 3	3,4	3,2
RHF-250	30 x 5	50 x 4	4,0	3,8
RHF-300	30 x 5	50 x 4	4,3	4,0
RHF-350	30 x 5	50 x 4	4,6	4,3
RHF-400	30 x 5	50 x 4	4,9	4,6
RHF-450	30 x 5	50 x 4	5,2	4,9
RHF-500	30 x 5	50 x 4	5,5	5,2
RHF-600	30 x 5	50 x 4	6,1	5,7

Application/Limitation

The cable ladder systems have to be installed in accordance with the producer's loading table for the mentioned type

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

Applying powder coating on Cable Ladders and Trays will affect the ability to conduct current. The ability to conduct current in the steel itself is unchanged, but the coating will work as a barrier.

DNV will still regard the type approval as valid for powder coated cable ladder if the ladders are properly earthed to the structure.

Type Approval documentation

Tests carried out

Loading test, Impact test (-60°C) and Electrical Continuity test according to IEC 61537.

Marking of product

Øglænd System – Type designation – Width – Material (cover marking).

Periodical assessment

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

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable).
- Review of type approval documentation.
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at 2 and 3,5 year.



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END OF CERTIFICATE