Certificate No:
TAE00004NB

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Tray

with type designation(s)
Perforated Cable Tray

Issued to
Suhhan Industry Co., Ltd.
Busan, **Korea, Republic of**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Material	**Stainless Steel (SS316L) or Hot Dip Galvanized (HDG)**
Suitable for open deck	**Yes**

Issued at **Høvik** on **2023-03-24**
This Certificate is valid until **2028-03-23**.
DNV local unit: **Ulsan**

Approval Engineer: **Ivar Bull**

for **DNV**

Frederik Tore Elter
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Perforated Cable Tray. Stainless Steel (SS316L) or Hot Dip Galvanized (HDG).

Classification according to:	IEC 61537 Class
6.1 Material	Metallic
6.2 Resistant to Flame Propagation	Non Flame Propagation
6.3 Electrical Continuity Characteristics	With Electrical Continuity Characteristics
6.4 Electrical Conductivity	Electrical Conductivity Characteristics
6.5 Resistance Against Corrosion	Stainless steel (SS316L) with post treatment: Class 9D Hot Dip Galvanized Steel (HDG) Min 45 µm : Class 5
6.6.1 Minimum Temperature	- 40 ºC
6.6.2 Maximum Temperature	+120 ºC
6.7 Perforation in the Base Area	Classification B: Over 2 % and up to 15 %
6.8 Free base area	NA
6.9 Impact resistance	Up to 20 J

Type:	**SS316L / PERFORATED TYPE CABLE TRAY, 50H**
Standard surface:	SS316L
Thickness of steel plate:	Please fill in

Number	Type	Dimensions (mm)
PSTLBK-01030	SS316L / PERFORATED TYPE CABLE TRAY	100W x 50H x 3000L
PSTLBK-01530	SS316L / PERFORATED TYPE CABLE TRAY	150W x 50H x 3000L

Type:	**HDG / PERFORATED TYPE CABLE TRAY**
Standard surface:	Hot Dip Galvanized
Thickness of zink coating:	Minimum 45 µm
Thickness of steel plate:	Please fill in

Number	Type	Dimensions (mm)
PST0BK-01030	HDG / PERFORATED TYPE CABLE TRAY,	100W x 50H x 3000L
PST0BK-01530	HDG / PERFORATED TYPE CABLE TRAY,	150W x 50H x 3000L

Application/Limitation

Perforated cable tray for installation on board Offshore Units and Ships.

The cable tray system shall be installed in accordance with the producer's loading table for the mentioned type.

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

Cable trays must not to be used as a walkway.

Type Approval documentation

Tests carried out

Load bending test according to IEC 61537, Test for impact resistance, Electrical continuity, Salt mist test for HDG types

Marking of product

Suhhan – Type designation – Width x Height x Length – 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 and at renewal.

END OF CERTIFICATE