

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Tray

with type designation(s)
Outward C

Issued to

Metal Perforators (M) Sdn Bhd
Selangor, Malaysia

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

Application :

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

This Certificate is valid until **2021-06-30**.

Issued at **Hamburg** on **2016-09-29**

DNV GL local station: **Kuala Lumpur**

Approval Engineer: **Holger Jansen**

for **DNV GL**

Duy Nam Le
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.

Product description

TYPE:	OUTWARD C – Cable ladder for both indoor and outdoor installation.
Standard surface:	Hot dip galvanized, Stainless steel SS304/SS316
Thickness:	1.5mm to 3.0 mm.

Type	Total Width (mm)	Weight (kg/m)	Length (mm)	Type	Total Width (mm)	Weight (kg/m)	Length (mm)
MPOSL/150/150	150	120	3000	MPOSL/150/600	600	150	3000
MPOSL/150/200	200	120	3000	MPOSL/150/750	750	150	3000
MPOSL/150/300	300	120	3000	MPOSL/150/900	900	150	3000
MPOSL/150/450	450	130	3000				

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.

For installation on board Offshore Units and Ships.

Type Approval documentation

Tests carried out

Load bending test according to IEC 61537, salt mist test.

Marking of product

METAL PERFORATORS – 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 are 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)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- 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.



Job Id: **262.1-023802-1**
Certificate No: **TAE00001E6**

Assessment to be performed at least every second year.

END OF CERTIFICATE