

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cable Tray**with type designation(s)
X-TRAY

Issued to

Axelent AB
Hillerstorp, Jönköpings Län, Sweden

is found to comply with

Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards**Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Material****Suitable for open deck**Issued at **Høvik** on **2020-05-18**for **DNV GL**This Certificate is valid until **2024-06-30**.DNV GL local station: **Gothenburg FIS**Approval Engineer: **Nicolay Horn****Marta Alonso Pontes**
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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **262.1-012700-4**
 Certificate No: **TAE00000FE**
 Revision No: **2**

Product description

Cable wire trays for marine applications with accessories.

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	1, 7, 9A & 9D in accordance with IEC 61537 table 1
6.6.1 Minimum Temperature	- 20 °C (SS 316L - 50)
6.6.2 Maximum Temperature	+90 °C
6.8 Free Base Area	Z > 90% Ref. IEC61537 table 5
6.9 Impact resistance	Up to 50 J

Type: X-TRAY Standard Wire Tray

Article	Article no.	Article	Article no.
60x30	0m00	120x110	0m12
120x30	0m10	220x110	0m22
220x30	0m20	320x110	0m32
320x30	0m30	420x110	0m42
420x30	0m40	520x110	0m52
520x30	0m50	620x110	0m62
620x30	0m60	53x46	0m99-53
60x60	0m01	100x60	0m91-100
120x60	0m11	150x60	0m91-150
220x60	0m21	75x60x4	0m99-0754
320x60	0m31	75x60x5	0m99-0755
420x60	0m41		
520x60	0m51		
620x60	0m61		

Type: X-tray C-Wire Tray

Article	Article no.
120x80	1m21
220x120	1m22

Type X-tray G-Wire Tray

Article	Article no.
100x60	1m11
150x120	1m12

Material m:
m=1 for Zinc Plated
m=2 for Hot Dip Galvanized
m=3 for Stainless Steel 316L
m=4 for Stainless Steel 304 L

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Application/Limitation

The cable tray systems must 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.

Type Approval documentation

Datasheet/Diagrams/drawings:

Drawings nos. KR0000 KR0010, KR0020, KR0030, KR0040, KR0050, KR0060, KR0099-053 C1, KR0099-754 C1, KR0099-755, KR0091-100 C1, KR0091-150 C1.

Documents referred to in MCANO381/BODAK/262.1-012700-J-18 dated 2015-09-15

Testreports:

SP report nos: 5F015879 dated 2015-09-22, PX10880 rev. dated 2011-08-16, PX10880A dated 2011-08-12, PX16030 dated 2011-11-14. AXELENT Report no. ATR12001 revised date 2012-01-23.

Tests carried out

Type tests in accordance with IEC 61537.

Marking of product

X-TRAY and type designation.

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 periodical 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.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE