DNV·GL

Certificate No:
TAE00000SR

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Tray

with type designation(s)
AHF

Issued to
Ackron International Manufacturing (M) Sdn Bhd
Johor, Malaysia

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

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

This Certificate is valid until **2021-06-14**.

Issued at **Høvik** on **2016-06-15**

for **DNV GL**

DNV GL local station: **Certification of Materials - Singapore**

Approval Engineer: **Ivar Bull**

Marit Laumann
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

Cable ladder	
Type	AHF
Material	Mild Steel (MS) or Stainless Steel 316L (SUS316L)
RFSR	Return Flange Side Rail
RUNG type	B
HD	Heavy Duty

No.	Model	Material/ Finishing	Width mm	Height mm	Length mm	CSA Class designation kg/m	Safe Working Load
1	AHF	MS	1000	150	3000	"E" 299	333.40
2	AHF	SUS316L	1000	150	3000	"E" 299	333.40
3	AHF	MS	900	125	3000	"E" 299	316.20
4	AHF	SUS316L	900	125	3000	"E" 299	302.90
5	AHF	MS	900	125	6000	"C20"149	168.49
6	AHF	SUS316L	900	125	6000	"C20"149	168.49
7	AHF	MS	900	150	3000	"E" 299	362.90
8	AHF	SUS316L	900	150	3000	"E" 299	316.20
9	AHF	MS	900	150	6000	"C20"149	168.49
10	AHF	SUS316L	900	150	6000	"C20"149	168.49
11	AHF	MS	750	150	3000	"E" 299	339.40
12	AHF	SUS316L	750	150	3000	"E" 299	339.40
13	AHF	MS	600	150	3000	"E" 299	337.61
14	AHF	SUS316L	600	150	3000	"E" 299	337.61
15	AHF	MS	450	150	3000	"E" 299	337.17
16	AHF	SUS316L	450	150	3000	"E" 299	337.17
17	AHF	MS	300	150	3000	"E" 299	336.72
18	AHF	SUS316L	300	150	3000	"E" 299	336.72
19	AHF	MS	150	150	3000	"E" 299	312.47
20	AHF	SUS316L	150	150	3000	"E" 299	312.47

Application/Limitation

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 ladders must not to be used as a walkway.

Type Approval documentation

Tests carried out

Tested in accordance with IEC 61537 Impact resistance test, Electrical properties, Resistance to corrosion, Safe Working Load (SWL) and in accordance with NEMA VE 1-2009 and CSA C22.2 No.126.1-09, loading material, Load application, loading to destruction (Method A).

Marking of product

Ackron International Manufacturing – Type designation – Type – Width – Height – Length.

Periodical assessment

The scope of the periodical assessments 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 Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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 least every second year.

END OF CERTIFICATE