

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Ties

with type designation(s)
FZLSPAP-15.9 and MPSPAP-15.9

Issued to

Fengfan Fasteners (Shaoxing) Co., Ltd.
Shaoxing ZHEJIANG, China

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.

Material **Metallic**
Suitable for open deck **Yes**

Issued at **Hamburg** on **2017-11-06**

This Certificate is valid until **2022-11-05**.

DNV GL local station: **Ningbo**

for **DNV GL**

Approval Engineer: **Carsten Hunsalz**

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Oliver Darley
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

Cable Ties of stainless steel 316 with PPAcoating.

Type	Coating	Dimension(mm)		
		T	W	M/roll
MPSPAP-15.9	PPA	1.2	15.9	20
FZLSPAP-15.9	PPA	1.2	15.9	-

Classification according to IEC 62275

6.1	Material	Stainless Steel AISI 316L & PPA 571
6.2	Loop tensile strength for cable ties	14600 N
6.2.2	Type 2	Retains 100 % declared loop tensile strength after test conditions
6.3.1	Maximum operating temperature for	150°C
6.3.2	Minimum operating temperature for	-60°C
6.3.2	Minimum temperature during instalation	-60°C
6.4	Contribution to fire	Non-flame propagating
6.5	Environmental influences	
6.5.1	Resistance to UV light	Resistant to UV light
6.5.2	Resistance to corrosion	Resistant to corrosion
6.6	Halogen, Smoke & Fume	Zero Halogen, Low smoke & Fume

Resistance to electrimechanical force according to IEC 61914

Ipk	Distances
≤ 130 kA	0.3 M

Short circuit level for other distances, see manufacturer calculations.

Application/Limitation

To be installed in accordance with the manufacturer`s instructions and DNV GL rules.

Suitable for open deck.

Type Approval documentation

Tests carried out

Type tested in accordance with IEC 62275 including Loop Tensil Strength, Instalation and operation temperature tests. Short circuit test in accordance with IEC 61914.

Marking of product

Company name, Type designation and Dimension

Periodical assessment

Job Id: **262.1-016469-7**
Certificate No: **TAE00002CG**

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.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE