

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Clip, Saddle, Band

with type designation(s)
ELEMATIC-2-LOCK

Issued to

ITW CONSTRUCTION PRODUCTS ITALY SRL
PADOVA, Italy

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application :

For fixing of cables, outdoor and indoor, on board ships and offshore units.
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2019-06-30**.

Issued at **Høvik** on **2015-09-01**

DNV GL local station: **Venice**

for **DNV GL**

Approval Engineer: **Ludovico Gullifa**

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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.

Product description

Type: 2-LOCK Cable Ties with stainless steel frame (AISI 316) with double tooth.
Material: Polyamide 6.6 natural or with Black Masterbatches (for black version).
Flammability of raw material: UL94-V2.
Installation temperature: - 40 °C to + 60 °C
Working temperature: - 40 °C to + 85 °C
Loop Tensile Strength: Type 2: Retains 100% strength after testing
Loop Tensile Strength: Type 1: Retains at least 50% strength after testing

Type code		Length mm	Width mm	Tensile strength	LTS Type
Nat.	black				
1203	1303	100	2,5	180	1
1207	1307	200	2,5	180	1
1209	1309	140	3,5	250	2
1210	1310	290	3,5	250	2
1214	1314	200	3,5	250	2
1215	1315	200	4.5	360	2
1216	1316	250	4.5	360	2
1217	1317	290	4.5	360	2
1219	1319	360	4.5	360	2
	1325	220	7,5	780	2
1227	1327	360	7.3	780	2

Application/Limitation

For fixing of cables, outdoor and indoor, on board ships and offshore units.
Must be used together with metallic cable band if used to fix cables not laid on top of horizontal cable tray or support.

Type Approval documentation

ELEMATIC technical datasheets "Cable tie", rev. 05/2014.
IMQ test report No. CN13S0205730 issued 2014-05-09.
IMQ test report No. MI15S0406989-01/1 issued 2015.06.08
IMQ test report No. MI15S0406989-01/2 issued 2015.06.08

Tests carried out

Type tests in accordance with DNV Type Approval Program / IEC 62275.

Marking of product

Name of the manufacturer – type of product

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