

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Clip, Saddle, Band

with type designation(s)
ELEMATIC

Issued to

ITW CONSTRUCTION PRODUCTS ITALY SRL
PADOVA, Italy

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 **2021-10-16**.

Issued at **Hamburg** on **2016-10-17**

DNV GL local station: **Venice**

Approval Engineer: **Carsten Hunsalz**



for **DNV GL**

Digitally Signed By: Le, Nam

Location: DNVGL Hamburg, Germany

Signing Date: 2016-10-18

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.

Job Id: **262.1-008732-2**
Certificate No: **TAE00001DU**

Product description

Type: Standard Cable Ties made from polyamide 6/6.

Flammability of raw material: UL94-V2.

Installation temperature: -10 °C to + 60 °C

Working temperature: - 40 °C to + 85 °C

Min. tensile strength from 60 N to 1100 N

Loop Tensile Strength: Type 2: Retains 100% strength after testing

Type code		Length mm	Width mm
Nat.	black		
5201	5301	75	2.20
5203	5303	98	2.50
5205	5305	135	2.50
5206	5306	160	2.60
5207	5307	200	2.60
5208	5308	370	3.50
5209	5309	140	3.50
5210	5310	290	3.50
5211	5311	160	4.50
5212	5312	120	4.50
5213	5313	178	4.80
5214	5314	200	3.50
5215	5315	200	4.80
5216	5316	250	4.80
5217	5317	290	4.50
5218	5318	390	4.80

Type code		Length mm	Width mm
Nat.	black		
5219	5319	360	4.50
5220	5320	430	4.50
5221	5321	120	7.80
5223	5323	180	7.80
5225	5325	240	7.80
5226	5326	300	7.80
5227	5327	365	7.50
5229	5329	450	7.50
5231	5331	540	7.50
5233	5333	750	7.50
5234	5334	780	9.00
5235	5335	225	12.50
5237	5337	500	12.50
5239	5339	720	12.50
5241	5341	850	12.50
5243	5343	1000	12.50

Type: Polyamide 6/6 black UV Cable Ties for weather resistant.

Flammability of raw material: UL94-V2.

Installation temperature: -10 °C to + 60 °C

Working temperature: - 40 °C to + 110 °C

Min. tensile strength from 80 N to 540 N

Loop Tensile Strength: Type 2: Retains 100% strength after testing

Type code	Length mm	Width mm
black		
5303 UV	98	2.50
5309 UV	140	3.50
5314 UV	200	3.50

Type code	Length mm	Width mm
black		
5315 UV	200	4.80
5317 UV	290	4.50
5327 UV	365	7.50

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Type: Belturing Cable Ties for weather resistant made from technical polymer.

Flammability of raw material: UL94-HB.

Installation temperature: -30 °C to + 60 °C

Working temperature: - 45 °C to + 85 °C

Min. tensile strength from 280 N to 540 N

Loop Tensile Strength: Type 1: Retains 50% strength after testing

Type code	Length mm	Width mm
black		
6449X	115	6
6450X	180	6
6452X	290	6
6454X	360	6
6447X	132	9
6451X	180	9

Type code	Length mm	Width mm
black		
6453X	260	9
6448X	300	9
6455X	360	9
6456X	510	9
6457X	760	9

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.

Operating instruction of the manufacturer to be observed

Type Approval documentation

ELEMATIC technical datasheets: Naturale Rev10 11/15, Nero Rev11 11/15, UV Type Nero Rev10 11/15, Weather resistant Nero Rev9 11/14, Catalogue 2016

Old version: "Cable tie", rev. 5 05/2011, "Weather Resistant cable tie", rev. 04 05/2011 and " Belturing Cable Tie, ", rev. 5 05/2011 .

IMQ test reports No. 01SL00037 & 01SL00038 issued 2011-07-27 and 01SL00189 issued 2012-01-03.

Tests carried out

Type tests in accordance with DNV GL Type Approval Program / IEC 62275:2013

Marking of product

Name of the manufacturer – type of product

Place of production

ITW Construction Products Italy S.r.l.
Via Edison 23 – 35010 Cadoneghe PD, Italy

ECS d.o.o.
Momjanska Cesta 3 - 52460 Buje, Croatia

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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.

Assessment to be performed at least every second year.

END OF CERTIFICATE