

MARINE DIVISION

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Certificate number: 13190/B1 BV

File number : ACE 14/903/01

Product code : 2535H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

ITW CONSTRUCTION PRODUCTS ITALY SRL

Padova - ITALY

for the type of product

CABLE TIES

Plastic Cable Ties

Type: 3xxx, 5xxx and 65xx.

Regulations and standards :

BUREAU VERITAS Rules for the Classification of Steel Ships.
IEC 60092 series - EN 50146.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until : 24 Dec 2013

At Paris la Défense, on : 16 May 2008

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV GENOA
Surveyor : S. Brusegan

L. COURREGELONGUE



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Plastic Cable ties - Type: 3XXX, 5XXX and 65XX.

These devices are molded thermal plastic bundling straps, intended to bind and /or support single or multiple stranded units such as electrical wires, cables and wiring assemblies in electrical equipment. One side of each strap is notched so it can be secured in a ratched device at the opposite end when the straps are applied.

Type	Specifications
3003 to 3127	Tensile strength: 60N to 1080N Max. bundle dia.: 15 to 302 mm
5201 to 5243	Colour: natural except for 53XX series which is pigmented in black only
5301 to 5343	Material: polyamide 6.6 halogen free Temp. rating: 85°C
6501 6502 6503	Polyamide 6.6 Tensile strength: 360 N (6501) - 540 N (6502 & 6503) Temp. rating: -40°C to +85°C

2. DOCUMENTS AND DRAWINGS :

According to manufacturer's pamphlet and specifications filed in ACE 14/903/01.

3. TEST REPORTS :

3.1 - Manufacturer's Flame retardant test report N° 219/03 dated 26/05/03.

3.2 - UL test report N° E86244.

3.3 - In-house Tests according to Quality Control Mod. PFF Rev. 5 (6501, 6502 & 6503) dated 29/02/08.

4. APPLICATION / LIMITATION :

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - On non-horizontal support, one metallic fastener is to be fitted every five ties.

4.3 - According to IEC 60092 series.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The **Plastic Cable ties - Type: 3XXX, 5XXX and 65XX** are to be manufactured, examined and tested by **ITW CONSTRUCTION PRODUCTS ITALY SRL** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **ITW CONSTRUCTION PRODUCTS ITALY SRL** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **ITW CONSTRUCTION PRODUCTS ITALY SRL** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production site:

**ITW CONSTRUCTION PRODUCTS ITALY SRL
VIA EDISON 23
CADONEGHE-PD
35010 Padova
ITALY**

6. MARKING OF PRODUCT :

- Maker's name or trade mark.

- Serial number of the units.

- Equipment type number or model identification under which it was type-tested.

7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the cable ties at any time, and that **ITW CONSTRUCTION PRODUCTS ITALY SRL, Padova - ITALY** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use of the units and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N° 13190/B0 BV issued on 14/02/2008 by the Society.

*** END OF CERTIFICATE ***