Certificate No:
TAE00004A7

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Ties

with type designation(s)
Roxtec cable straps and accessories

Issued to
Roxtec International AB
Karlskrona, **Sweden**

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.

Material	**Metallic (plastic coated)**
Suitable for open deck	**Yes (A2 and A4 type only)**

Issued at **Hamburg** on **2021-06-14**
This Certificate is valid until **2026-06-13**.
DNV local station: **Sweden CMC**

Approval Engineer: **Carsten Hunsalz**

for **DNV**

Arne Schaarmann
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Type:	Roxtec cable straps with Strap Clip, prefabricated
Material:	Plastic coated metal – galvanized steel grey (only for indoor installation) – A2 class stainless steel black – A4 class stainless steel (non-magnetic) brown

Article	Length [mm]	Width [mm]	Thickness [mm]	Diameter Range [mm]	Loop Tensile Strength [N]
Roxtec cable straps 8x0,3mm and Roxtec Strap Box of 75m; Single Strap Clips	200-600	8	0,3	20 to 60	530
Roxtec cable straps 15x0,5mm and Roxtec Strap Box of 25m; Single Strap Clips	300-1000	15	0,5	50 to 150	1300

Details according manufacturer`s specification

Classification according to IEC 62275:

6.1 Material:	Plastic coated metal – galvanized steel grey (only for indoor installation) – A2 class stainless steel black – A4 class stainless steel (non-magnetic) brown
6.2 Loop tensile strength:	Type 2: Retains 100% strength after testing
6.3 Temperature:	Maximum operation temperature [°C]: 85°C Minimum operation temperature [°C]: -60°C Minimum installation temperature [°C]: -60°C
6.4 Contribution to fire:	Non-flame propagating
6.5.1 Resistance to UV light:	resistant
6.5.2 Resistance to corrosion:	resistant

Accessories: Tightening tool with cutting function

Application/Limitation

A2 and A4 types for fixing of cables, outdoor and indoor, onboard ships and mobile offshore units.
Galvanized steel grey type for fixing of cables, indoor, onboard ships and mobile offshore units.

To be installed according with the manufacturer`s instructions and DNV rules.

Type Approval documentation

Specification: Catalogue "ROXTEC CABLE RACK SYSTEM"
Drawing: GK2020120101 Rev. A, dated 2020-12-01

Test Report: TREO Labor für Umweltsimulation GmbH No.: 4011031, 1-Oct-15

Tests carried out

Mandatory tests for metallic types according to IEC 62275:2018-08 and IEC 60695-11-5:2016-12

Loop tensile strength for ties retaining 100% strength after testing.

Marking of product

Company name, Type designation and Dimension

Place of production

Roxtec GmbH, Neuer Höltigbaum 1-3,
22143 Hamburg, Germany

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.

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