



TECHNICAL DOCUMENTATION

SWI-TEC® Rat Guard Professional

Article number: 1126 / 1127

Product Category: Rat Guards / Security and protection

Area of Application: Nautical application / Commercial shipping

Explanation: Professional Rat Guard for Mooring lines

**Rope Ø 34-75 mm and Ø 75-100 mm,
Disc Ø 800 mm**

Open



Closed



1. Product Overview

The SWI-TEC Rat Guard Professional, Art. 1126 and 1127, is a protective device specifically developed for professional shipping to protect mooring lines against rats and other vermin crossing along the line.

The device was developed for use on larger vessels and is particularly suitable for cargo ships and cruise ships.

A key feature of the system is its design, in which the mooring line is completely enclosed when the device is closed. This prevents a passage along the mooring line.

The Rat Guard Professional can be lowered over a mooring line directly from the vessel and retrieved and stowed after use.

2. Intended Use

The Rat Guard Professional is intended exclusively for its specified use as a mechanical protective device on mooring lines.

The system is guided over a suitable mooring line and positioned so that access by rats or other vermin along the line towards the vessel is effectively prevented or impeded.

Model Art. 1126 is designed for mooring lines with a diameter of Ø 75–100 mm.

Model Art. 1127 is designed for mooring lines with a diameter of Ø 34–75 mm

Use outside this specified rope diameter range is not covered by the manufacturer's stated technical specification.

3. Operating Principle

The Rat Guard Professional is based on a mechanical opening and closing mechanism.

The device is operated using a separate blue securing line and red retrieval line.

3.1 Lowering

The protective device is guided over the mooring line and then lowered from on board.

During the downward movement, the integrated slider moves along its designated guide.

3.2 Closing Operation

The downward movement of the slider guides the movable segments of the protective disc towards each other, causing them to overlap.

This progressively encloses the mooring line.

In the fully closed position, the device completely encloses the mooring line according to the manufacturer's specifications.

SWI-TEC describes this as 100% coverage of the mooring line.

3.3 Closed Operating Position

After the device has been fully lowered and closed, a continuous protective barrier is formed around the mooring line.

The design objective is to prevent a gap between the movable segments through which vermin or rats could pass the protective device.

3.4 Opening When Unmooring

When the vessel is unmoored, the Rat Guard Professional is pulled back up using the designated red retrieval line.

This movement automatically opens the two segments.

The Rat Guard Professional can then be safely stowed on board.

4. Technical Data

Feature	Technical specification
Product	Rat Guard Professional
Manufacturer	SWI-TEC, Neveta Náutica S.L.
Article number / SKU	1126 / 1127
Application area	Commercial shipping
Suitable mooring line diameter	Ø 34-75 mm and Ø 75–100 mm
Disc thickness	3 mm
Disc / outer diameter	800 mm
Net weight	2,6 kg
Protection device material	Plastic
Fasteners	Stainless Steel, A4
Blue Securing line	6 m, Ø 10 mm
Red Retrieval line	6 m, Ø 4 mm
Blue Securing line	spliced to the slide valve at the factory

The technical values correspond to the manufacturer's currently published specifications.

5. Construction

The Rat Guard Professional essentially consists of the following functional elements:

5.1 Protective Disc

The three-part protective disc forms the external mechanical barrier around the mooring line.

With a diameter of 800 mm, it provides the coverage area required for the intended application.

5.2 Movable Segments

The protective disc has movable segments that are guided towards each other during the closing operation.

The overlapping segments completely enclose the mooring line.

5.3 Slider

The integrated slider controls the movement of the segments.

When lowered, the slider moves downward and initiates the closing operation.

When pulled upward, the opening movement is initiated.

5.4 Securing Line and Retrieval Line

The device is equipped with a 6 m long blue securing line with a diameter of 10 mm, spliced into the upper part of the protective disc.

The 6 m long red retrieval line is factory-connected to the slider or secured with a double knot.

It allows the device to be operated from on board.

5.5 Fasteners

A4 stainless steel screws are used for the fasteners.

This provides corrosion-resistant screw connections suitable for maritime operating conditions.

6. Materials

Material: Plastic

Screw connections: Stainless steel A4

Securing and retrieval lines: Polyester, length: 6 m

The exact plastic specifications, such as polymer designation, UV stabilization or temperature resistance, is not further specified by the manufacturer on the publicly available product page and is therefore not part of this technical documentation.

7. Installation and Commissioning

Before use, ensure that:

1. The diameter of the mooring line is between 34 -75 mm and from 75-100 mm;
2. The protective device is free from visible damage;
3. The movable segments move freely;
4. The slider functions correctly;
5. The locking and recovery line is intact and undamaged;
6. The connection between the recovery line and the slider is secure;
7. The A4 stainless steel screws and other visible fasteners are properly seated.

Position the device over the mooring line so that the intended closing mechanism can operate without obstruction.

8. Operation

8.1 Positioning

Position the Rat Guard Professional over the designated mooring line.

Ensure that the device is not obstructed in its movement by other lines, fittings or objects.

8.2 Lowering

Lower the device in a controlled manner along the mooring line using the designated securing and retrieval lines.

During lowering, the slider moves downward and guides the segments into their closed position.

The securing line is safely fastened on board.

8.3 Inspection

After lowering, visually check that:

- the segments are fully closed;
- the mooring line is completely enclosed;
- there is no unusual misalignment;
- the red retrieval line is freely routed.

8.4 Removal

To remove the device, pull it upward using the red retrieval line.

When pulled upward, the two segments open automatically.

The Rat Guard Professional can then be safely stowed on board.

9. Safety and Operating Instructions

The device must be used exclusively for its intended purpose.

WARNING

Handle the Rat Guard Professional in accordance with standard vessel safety procedures, particularly in areas where mooring lines are under tension.

Mooring lines can be under high tension and represent a significant hazard if handled improperly.

The operator must not unnecessarily remain within the danger zone of tensioned lines during operation.

Operate the device so that no body parts or equipment can become caught between moving components.

10. Application Range and Limitations

The Rat Guard Professional Art. 1126 is specified for mooring lines with a diameter of 75–100 mm and Art. 1127 is specified for mooring lines with a diameter of 34–75 mm.

Proper operation outside this range cannot be assumed based on the published manufacturer's data.

The Rat Guard Professional is a mechanical protective device. Currently, protection depends, among other things, on correct positioning, complete closure of the segments and the proper condition of the device.

The device does not replace general pest-control or onboard hygiene measures.

11. Inspection and Maintenance

Regular visual and functional inspection is recommended to maintain reliable operation of the system.

In particular, the following points should be checked:

Protektive Disc

- Cracks
- Breaks
- Deformation
- Unusual wear
- Damage caused by mechanical impact

Movable segments

- Free movement
- Correct overlap
- Complete opening and closing

Slider

- free movement
- Visible damage
- Correct operation

Securing and retrieval lines

- Chafing
- Cuts
- Fraying
- Damage
- Condition of the connection to the slider

Screw connections

- Completeness
- Secure fit

- Visible corrosion or damage

If any damage is identified, the device must be inspected before further use and, if necessary, taken out of service.

12. Cleaning

After using it in a maritime environment, the device may be rinsed with clean fresh water to reduce salt and dirt deposits.

After cleaning, allow the device to dry completely.

Do not use cleaning methods that may damage the plastic, lines or stainless-steel components.

Avoid aggressive chemicals or unsuitable solvents.

13. Storage

For storage, the device should be:

- be clean and dry;
- be protected from unnecessary mechanical loads;
- be stored so that the plastic segments are not permanently deformed;
- be protected against damage to the lines.

Dry storage protected from unnecessary UV exposure and weathering is recommended.

14. Technical Advantages

For the intended application, the Rat Guard Professional offers the following key design advantages:

Complete enclosure

The mooring line is completely enclosed by the protective device when closed.

Suitable for large mooring lines

The system is designed for lines with a diameter of 34-75 mm and 75–100 mm.

Operation from on board

The device can be lowered and retrieved directly from the vessel using the integrated lines.

Automatic opening

The segments open automatically when the red line is pulled upward.

Developed for professional shipping

The design is specifically intended for use on larger vessels, including cargo ships and cruise ships.

Corrosion-resistant fasteners

The use of A4 stainless steel screws supports suitability for maritime operating conditions.

15. Product Identification

Manufacturer: SWI-TEC, Neveta Náutica S.L.

Product: Rat Guard Professional

Article number / SKU: 1126 and 1127

Product range: Rat Guard / Security and Protection

The manufacturer presents the product as a new development within its range of rat protection systems for professional shipping applications.

16. Quality and Manufacturer Information

On its product page, SWI-TEC refers, among other things, to its own manufacturing in Spain and its long-standing in-house production.

The company manufactures its own SWI-TEC products and has supplied all products worldwide since 1993.

17. Technical Documentation Notes

This documentation is based on the technical product information publicly available from the manufacturer SWI-TEC for the Rat Guard Professional, SKU 1126, at the time of preparation.

Technical information such as dimensions, materials or construction details is stated only to the extent published by the manufacturer.

Technical properties, load limits, classification approvals, test certificates or regulatory conformities that have not been published are neither assumed nor added to this documentation.

In the event of discrepancies between this documentation and subsequently published manufacturer documentation, the manufacturer's current original specifications shall prevail.

18. Manufacturer Contact

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Product Page:

<https://swi-tec.com/product/rat-guard-professional/>

19. Document Status

Documentation language: English

Note: This documentation serves as technical product information. It does not replace any original installation, operating, or safety instructions provided by the manufacturer.
