

ManSafe® Sealed SRL

Self Retracting Lifelines
for offshore wind farms



Sealed and field serviceable lifeline

The ManSafe Sealed Self Retracting Lifeline (SRL) offers a dependable means of fall protection whilst climbing any offshore wind turbine access ladder.

Designed to work in the harshest conditions, the Sealed SRL has undergone extensive, independently verified testing to ensure consistent, reliable performance.

The ManSafe Sealed SRL has been developed with a number of unique features to provide a smarter, safer, stronger and better alternative to traditional SRLs.

- Patented frictionless braking system that won't go out of adjustment and ensures consistent braking performance in any conditions
- 100% reliable Full Contact™ locking mechanism that won't freeze, hang up or corrode
- Manufactured from high quality components to ensure material compatibility and durability
- Critical components are sealed from the external environment by a series of gaskets, preventing material/moisture ingress
- Field serviceability significantly reduces the lifetime cost of ownership of the product



ManSafe Sealed SRL

The ManSafe Sealed SRL's modular design allows for quick and easy recertification with just a few simple tools. This can be performed locally by authorised representatives, or even on site ensuring the ManSafe Sealed SRL suffers minimal unit 'downtime'.



Minimum replacement component required



The ManSafe Sealed SRL has an ingress protection rating of IP68 and has also been tested to the new IP69K criteria for high pressure, wash down applications.



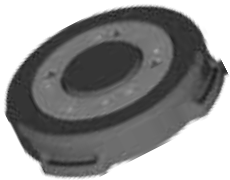
Smarter. Safer. Stronger. Better.

Smarter.

Introducing revolutionary Constant Force® technology

The ManSafe Sealed SRL uses Latchways' patented Constant Force technology to allow the load generated in the event of a fall to be absorbed therefore limiting the load to the user.

Unlike competitors' products, the braking system does not rely on friction.



Safer.

Introducing the Full Contact™ pawl locking mechanism

The Full Contact pawl locking mechanism provides a 100% reliable locking mechanism that won't freeze, hang-up or corrode.

The advanced pawl technology allows a user to both hear and feel the mechanism working and therefore reassure them the system is in good working order.

A built-in reserve line ensures that a fall is arrested safely even when the cable is fully extended.



Stronger.

Engineered specifically for offshore applications

Manufactured from high quality components—following consultation with the Institute of Materials in the UK to ensure material compatibility and durability.

Individual components undergo strict quality control procedures prior to assembly, including critical component batch "x-ray" to ensure material integrity—giving the end user added piece of mind regarding SRL reliability.

Better.

To ensure the SRL remains sealed the internal components are protected by rubber gaskets and seals ensuring the spring, locking mechanism and absorber are completely impenetrable to dust and water.

- The modular design allows for quick and easy recertification with just a few simple tools.
- Latchways can offer training enabling personnel to inspect and maintain the product, significantly reducing cost of ownership by minimising unit 'downtime' throughout the SRL's life.
- Should a fall occur, the modular design allows for individual components to be removed and replaced in the field within minutes—allowing quick and easy replacement of not only the cable but also the absorber.

Photo shown with custom designed attachment point



Latchways has redefined functionality, performance and serviceability of SRLs.

ManSafe Sealed SRLs are available in a wide range of lengths so whatever the job, there is a product for you.

Model	Part Description	Length (metres/feet)	Line Type/Material	Size (mm) HxWxD	Net Weight (kg)
62816-00LE*	15m Sealed SRL (Type 1)	15m / 50ft	Ø5mm Stainless Steel Cable (7x19)	330 x 300 x 200	13
62817-00LE**	15m Sealed SRL (Type 2)	15m / 50ft	Ø5mm Stainless Steel Cable (7x19)	330 x 300 x 200	13
62826-00LE	25m Sealed SRL	25m / 85ft	Ø5mm Stainless Steel Cable (7x19)	360 x 350 x 200	21
62897-02	SRL Mounting Bracket	N/A	316 Stainless Steel/ Electro-Polished	138 x 167 x 77	1
62894-00	15m Loop Tether Line	25m / 85ft	Marine Specific Line	N/A	N/A
62896-00	25m Loop Tether Line	25m / 85ft	Marine Specific Line	N/A	N/A
62897-00	SRL Retro-fit Mounting Post	N/A	316 Stainless Steel/ Electro-Polished	1550 x 360 x 70	20
62806-00	Fixed Tether Line	Custom Specified	Marine Specific with Sheath coating	N/A	N/A

*(Type 1) is for applications operating on fixed stable platforms, not for use when subject to wave swell. **(Type 2) is for applications from vessel to fixed platform "lockon" sensitivity has been adjusted to minimise premature locking due to wave swell. The 62826-00E 25 m SRL is suitable for use in either application.

Fixtures

If you require alternative fixtures, please contact Latchways.

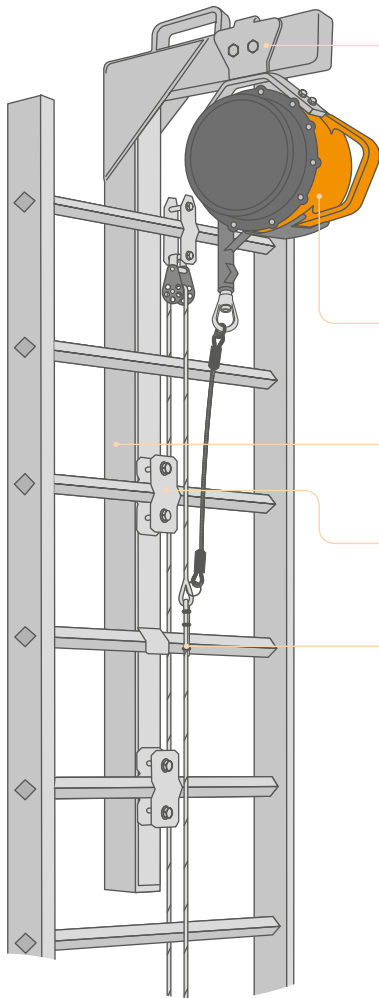


The load indicating stainless steel eyelet



Sealed offshore 'slide on' attachment point

Tether line system



The Latchways tether line system allows easy access to the user attachment point of the Sealed SRL. Two variations are available as shown.

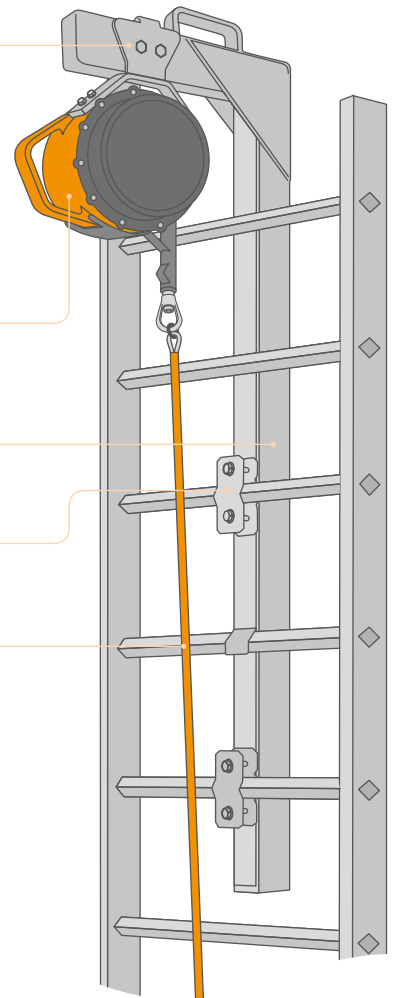
Rigid attachment, yet easily released

Unique field serviceable Sealed SRL

Electro Polished Stainless Steel retro fit post

Simple retrofit installation

Fixed or loop tether line options

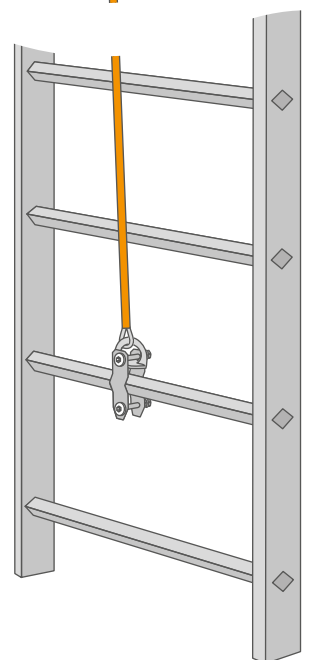
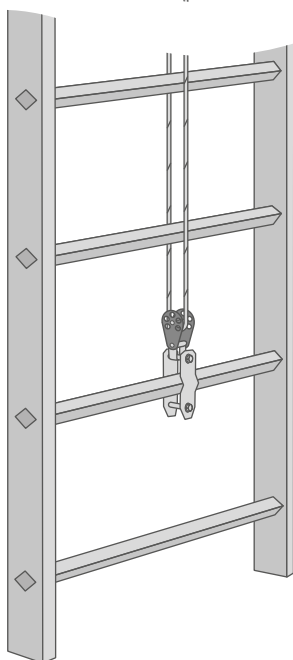


Ladder attachment post key features

- Detachable attachment bracket ensures the SRL is easily mounted and removable for field servicing.
- Post tested in accordance with EN795: 1995 for a Class A Anchor Device.
- Simple two bracket, four bolt attachment to ladder, with integrated rung hook to facilitate post fitting/positioning.
- Designed to fit offshore diamond rung ladders (universal post fits 250 mm, 275 mm & 300 mm rung spacings). Alternative custom design service available for alternative ladder sizes, as per customer requirements.

Standards

BS EN 360:2002
ANSI Z359.1-1999
ANSI Z359.1-2007
OSHA 1910.66
OSHA 1926.502
CSA Z259.2.2-98



ManSafe Sealed SRL

Spare parts and testing



Replacement Absorber Kit



Replacement Stainless Steel Cable Kit



Replacement Labels

Testing

The Latchways ManSafe Sealed SRL was subjected to 2000 hours of salt spray exposure which far exceeds any test requirement by current EN standards. The test demonstrates the durability of the Latchways ManSafe Sealed SRL.

The 2000 hours corrosion resistance testing was independently undertaken by SATRA Technology.

Test conditions

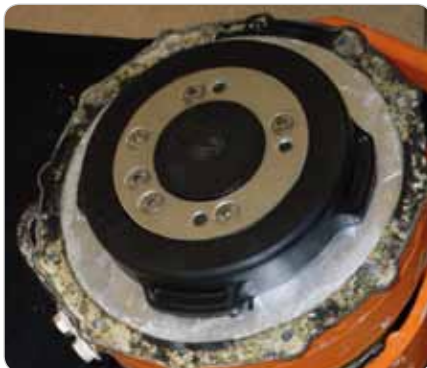
- Corrosion test in accordance with ISO 9227:1990—Neutral Salt Spray
- Temperature: 35 °C
- Fallout rate: approximately 1.2 ml/hr (average over total exposure time)
- pH of test solution: approximately 6.7 (average over total exposure time)
- Sample was removed and examined for damage periodically throughout exposure and after complete exposure time

Total exposure time: 2000 hours

Test results

EN 360:2002 Clause/Test	EN 360:2002 Requirement	Result/Comment	Pass/Fail
4.7 Corrosion resistance EN 364-1992 Clause 5.13.	No corrosion to be evident that could affect the function of the device (white scaling or tarnishing is acceptable).	Evidence of light white scaling present on external surfaces. Evidence of slight red discolouration around attachment bolts only. No visual evidence of rust present.	PASS (see note)

Absorber Cover Plate Removed



Spring Housing



Energy Absorber



Note: EN 360:2002 Clause 4.7 requires that the device be subject to 24 hours neutral salt spray exposure. However, to demonstrate the robustness of the Latchways product, the exposure time was increased to 1000 hours, after which **the device was found to fulfil the requirements of Clause 4.7.**



ManSafe®