

MSA Latchways® Solutions for Wind Turbines




*Fall protection solution
for wind turbine access*



*Because every life has a **purpose...***

The complete safety solution



MSA Safety is pleased to offer its complete range of Latchways® Fall Protection solutions for your turbines, met masts and substations. Whether onshore or offshore, we provide high performance, durable systems for use during construction, operations and maintenance right through to decommissioning - ensuring the safety of your technicians when working at height, even in the harshest environments.

MSA's Latchways Sealed Self-Retracting Lifeline (SRL) - when combined with a fixed-anchor point or extension post - allows safe, unhindered access from vessel to turbine.

Once inside the turbine, the tailored cable lifeline system for internal aluminium ladders provides safe, permanent attachment without the need to remove the cable from the intermediate wire guides allowing safe ground to nacelle transition.

MSA Safety—global leaders in fall protection

Tailored solution

MSA's in-depth knowledge of both the fall protection and energy industries means we can offer a tailored solution depending on your requirements. Our specialists work closely with the wind farm operators and turbine manufacturers to find an optimum solution for the existing tower internals.

Testing

All MSA's systems are manufactured to exceed the highest international standards. MSA's strong belief in extensive independent testing ensures that all products exceed current performance standards.

Compatibility

MSA's Latchways systems can be specified at the project design stage and installed at the time of construction. Solutions have been designed to ensure systems can be used in conjunction with lifts and climb assist. Several major retrofit programmes have been completed for key clients. Specific clients have also requested testing using their chosen harness.

Industry partnerships

Turbine manufacturers we work with:

- Vestas, MHI Vestas, Nordex, GE, Siemens Gamesa, Senvion

Wind farm owners we work with:

- Ørsted (DONG Energy), E.ON, RES, Iberdola, SCIRA, SSE Renewables, RWE Innogy, Vattenfall, Parkwind, Statoil, Scottish Power and many others.

Compatible with tower internals from:

- Avanti, Hailo, Zarges and others

Ground to nacelle transition

For ascending the internal ladder of a turbine

A vertical cable-based fall protection system allows a hands-free unhindered solution for ascending the ladder within a turbine, suitable for both new build and retrofit. The system has been designed to be used with either a TowerLatch® or a LadderLatch® unit - a device that secures the climber to the cable via the chest D-ring on their harness. In the event of a fall the device immediately locks onto the cable and a built-in webbing strop then facilitates a rescue* using the cut away technique (*TowerLatch® unit only).

Key Facts

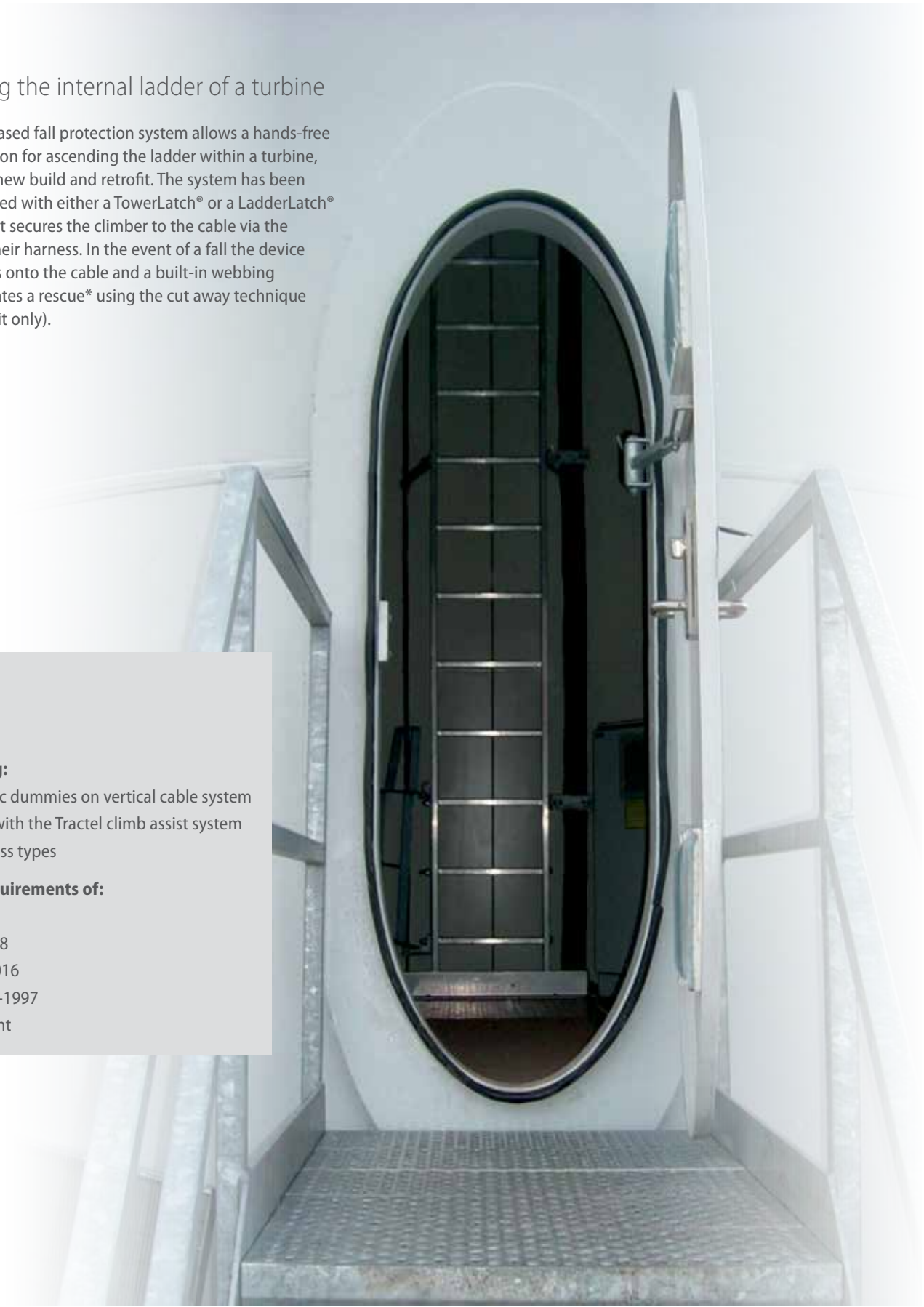
CE marked

TUV NEL testing:

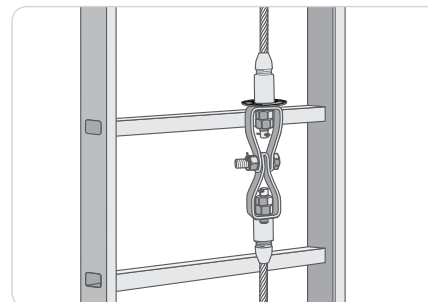
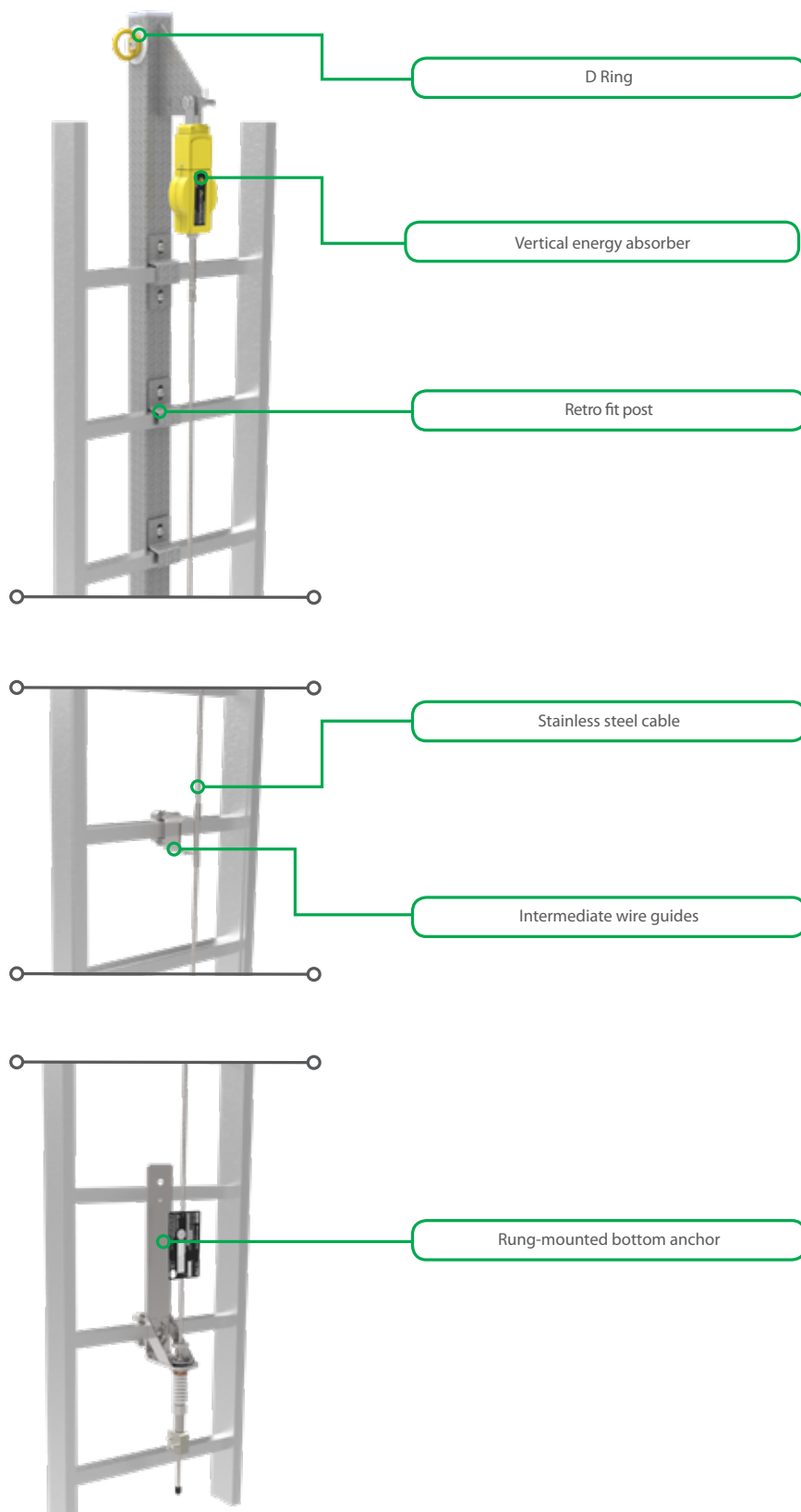
- Anthropometric dummies on vertical cable system
- Compatibility with the Tractel climb assist system
- Different harness types

Exceeds the requirements of:

- EN 353:1:2014
- CSA Z259.2.1-98
- ANSI Z359.1-2016
- AS/NZS 1891.3-1997
- OSHA Compliant



Wind Turbines



In-line tension indicating disc

This can be positioned above the lower platform enabling the system pre-tension to be checked without the need to open the hatch door and climb down into the lower platform area.



TowerLatch and LadderLatch Devices

The TowerLatch and LadderLatch units secure the climber to the fall protection cable via the chest D-ring, which allows free movement up and down the structure, but immediately locks onto the cable in the event of a fall. The TowerLatch unit incorporates a webbing strop to facilitate rescue.

Vessel to turbine transition

For access to offshore turbines

The Sealed SRL offers a dependable means of fall protection whilst transferring onto, or climbing, the boatlanding or access ladders.

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

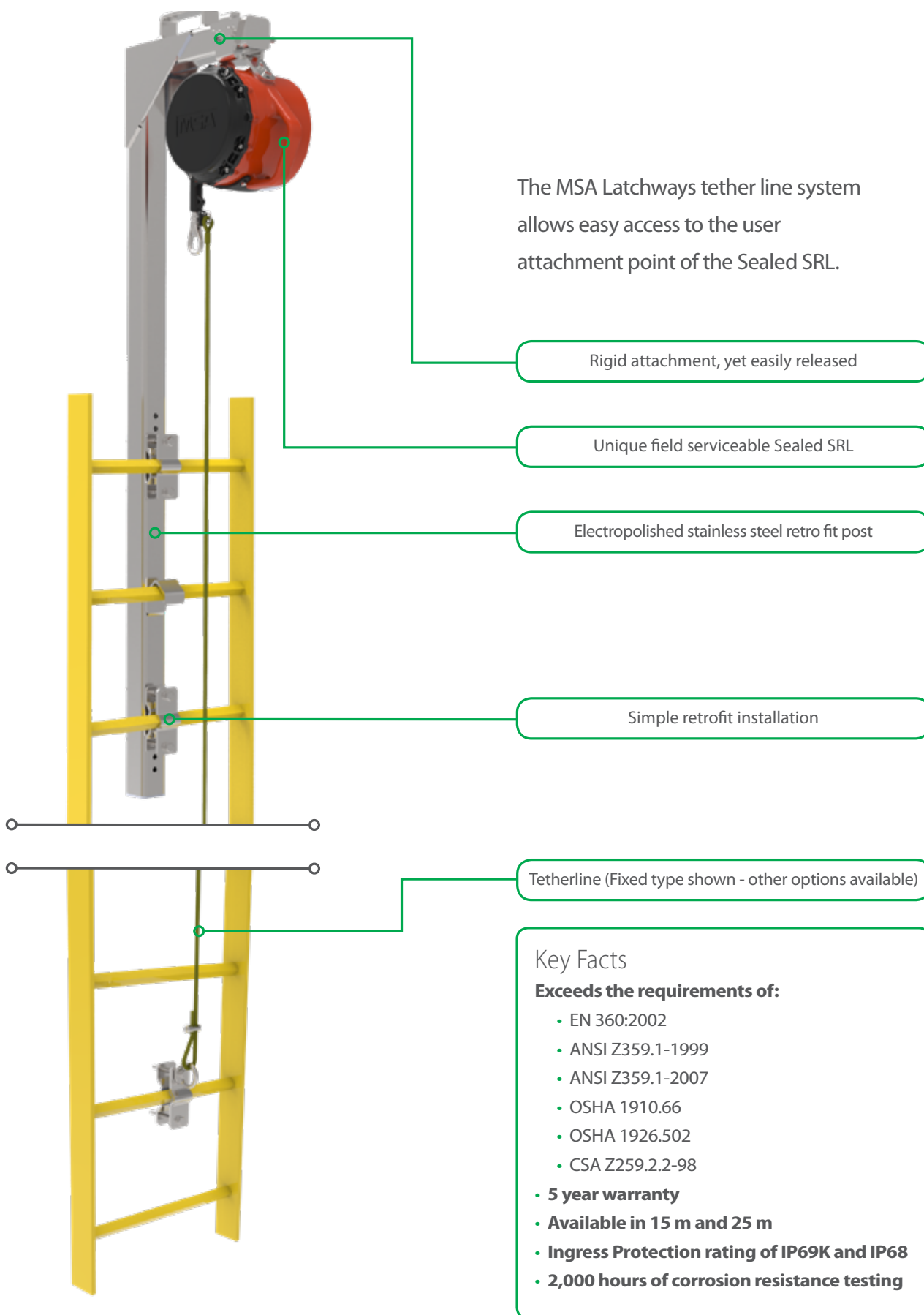
The Sealed SRL has been developed with a number of unique features and proven to work in harsh offshore conditions. Since 2009, over 8000 units have been protecting climbers on more than 60 offshore wind farms.



Features and Benefits

- Unique Full Contact™ locking mechanism that cannot freeze, hang up or corrode
- Patented frictionless energy absorbing mechanism that won't go out of adjustment and ensures reliable performance in any conditions
- Manufactured from high quality components to ensure durability
- Locking mechanism and absorber are impenetrable to material/moisture with ingress protection rating IP69K
- Completely field serviceable which significantly reduces the lifetime cost of ownership





The MSA Latchways tether line system allows easy access to the user attachment point of the Sealed SRL.

Rigid attachment, yet easily released

Unique field serviceable Sealed SRL

Electropolished stainless steel retro fit post

Simple retrofit installation

Tetherline (Fixed type shown - other options available)

Key Facts

Exceeds the requirements of:

- EN 360:2002
- ANSI Z359.1-1999
- ANSI Z359.1-2007
- OSHA 1910.66
- OSHA 1926.502
- CSA Z259.2.2-98
- **5 year warranty**
- **Available in 15 m and 25 m**
- **Ingress Protection rating of IP69K and IP68**
- **2,000 hours of corrosion resistance testing**





MSA—The Safety Company

Our business is safety. We've been the world's leading manufacturer of high-quality safety products since 1914. MSA products may be simple to use and maintain, but they're also highly-sophisticated devices and protective gear — the result of countless R&D hours, relentless testing and an unwavering commitment to quality that saves lives and protects thousands of men and women each and every day. Many of our most popular products integrate multiple combinations of electronics, mechanical systems and advanced materials to help ensure that users around the world remain protected in even the most hazardous of situations.

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families and their communities may live in health throughout the world.

MSA: Because every life has a purpose.

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