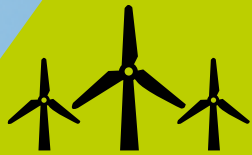




Fall Protection



Fall protection equipment selection for

Wind Energy Industry





Wind Energy

This industry specific catalogue is dedicated to keeping wind energy workers safe while on the job!

Fall protection is a complicated issue and one of the most important faced by an employer or worksite supervisor. With over 37,000 reported incidents per year*, falls from heights almost always result in serious injury. In the wind energy industry, lack of proper fall protection can have serious consequences, even death.

*Source: www.hse.gov.uk/statistics

3M and the Wind Energy Industry

Meeting wind energy challenges

At 3M, we understand that the wind energy industry is a diversified work environment. Not only is it constantly changing as the work progresses and technology evolves, but the industry itself is always innovating with new procedures and materials that present new challenges for your fall protection plan. Wind energy employees work in multiple scenarios where safety is always foremost on the job. These environments are specialised and multi-disciplined, demanding a full range of fall protection solutions to meet the needs of a variety of workplaces. That is why employers turn to 3M Fall Protection's leading brands DBI-SALA® & Protecta® for industry expertise, superior quality products and continual systems innovation.

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ABCs of Fall Protection	6 - 7
Wind Industry Training	8 - 13
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Wind Energy Industry Products	24 - 32



Our Brands



Fall Protection

3M™ DBI-SALA®: Safety without compromise for workers at height.

The DBI-SALA® brand embodies a commitment to excellence and innovation with its extensive range of fall protection solutions, designed to keep you working at height; safely, efficiently, comfortably. The ultimate in fall protection for any work environment.



Fall Protection

3M™ Protecta®: Trusted, quality fall protection.

With over 75 years experience, the Protecta® brand provides the complete line of fall protection products you can rely on, at exceptional value.



ABCs of Fall Protection

A typical Personal Fall Arrest System (PFAS) incorporates key components often described as the ABCs of fall protection.

A

Anchorage

Anchorage is a secure point of attachment. Anchorage connectors vary by industry, job, type of installation and structure. They must be able to hold fast under the load of a fall, working in suspension or a rescue.



B

Body Support

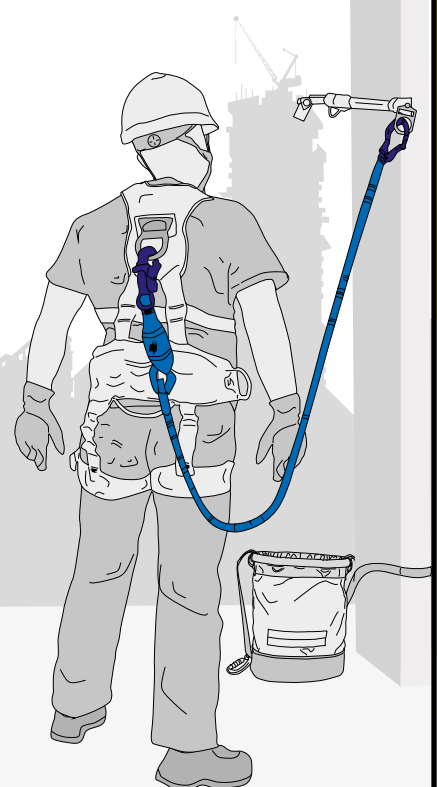
Harnesses distribute fall forces over the upper thighs, pelvis, chest and shoulders. They provide a connection point on the worker for the personal fall protection.



C

Connecting Devices

Products such as shock absorbing lanyards or self-retracting lifelines connect a worker's harness to the anchorage.



ABCs of Fall Protection

The (A) anchorage/anchorage connector, (B) body support and (C) connecting device - when used together - form a complete system for maximum worker protection. But don't forget the other important components of a comprehensive fall protection programme: (D) descent and rescue, (E) education and (F) fall protection for tools.

D

Descent and Rescue

Descent and rescue devices are used to raise or lower a fallen worker to safety, or to retrieve him from a confined space.



E

Education

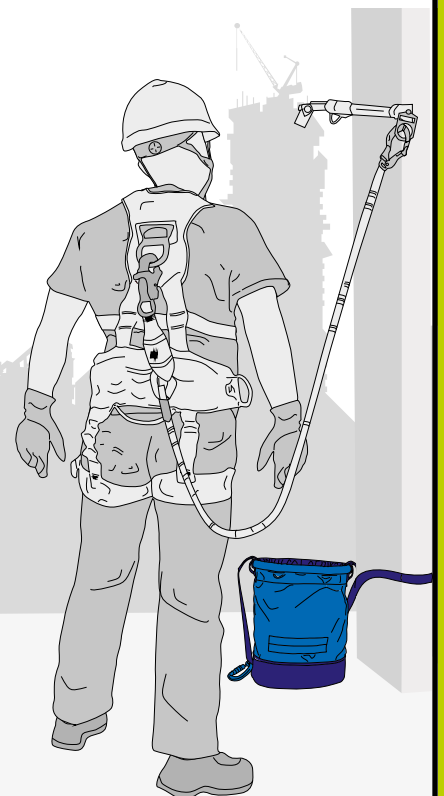
We offer a variety of best-in-class certified training courses for work at height and confined spaces at our state-of-the-art training centres located around the world. We can also bring training to your workforce with our specialised demonstration vehicle providing an excellent introduction to fall protection.



F

Fall Protection for Tools

Helps make work environments safer and more productive by reducing dropped object incidents.





Safety Training

Workers' lives are on the line every day, but ensuring their safety starts long before the job begins. No one understands this better than 3M Fall Protection. Our training is based on more than 70 years of expertise and jobsite implementation around the globe.

When it comes to protecting your work site, we deliver. We offer superior courses in world-class training facilities, based on standard curriculum or custom programmes specific to your jobsite.

Our training services include:

- Regional facilities to avoid extensive delegate travel or ability to facilitate courses at your own sites.
- Ability to build bespoke course programme to ensure that training meets your specific company requirements.
- Access to and use of a wide range of fall protection equipment to ensure delegates receive a broad training experience.

From our network of state of the art training centres, we can offer a comprehensive portfolio of training specifically focused on the requirements of this fast developing industry. In addition we also offer on-site and bespoke training solutions to meet your specific requirements.

Wind Industry Training

Who is Global Wind Organisation (GWO)?

Global Wind Organisation is a non-profit industry association founded and owned by its members who are drawn from globally leading renewable energy manufacturers, owners and operators.

GWO published the first version of the [Basic Safety Training \(BST\) Standard](#) in 2012 in response to the demand for a recognisable standard in the wind turbine industry. This was followed by the [Basic Technical Training \(BTT\) Standard](#) in 2014.

GWO has since launched a range of other [training standards](#) which address the most common safety and technical training needs of renewable energy's largest employers.



What are GWO training standards and why does the wind industry need them?

GWO training standards describe the requirements for training courses that are recommended by members of GWO. By complying with GWO standards and requirements, certified training providers are considered competent and proficient. 3M has some training centers globally that are GWO certified training providers.

Any training participant with a current training record in GWO's WINDA database is considered competent and knowledgeable according to the learning objectives of that standard. GWO members accept the training record as confirmation the participant has achieved the learning objectives as described in the standard. Benefits of attending GWO training standards:

- Improved safety standards
- Standardisation
- Improved workforce productivity
- Competitive costs
- Supply chain alignment and contract certainty



GWO Certified Training Offered



REGISTER HERE



PLACEHOLDER ONLY



REGISTER HERE



PLACEHOLDER ONLY



4 Modules - WAH, FA, FAW, MH and Refresher

Duration (First Training): 4 days

Duration (Refresher): 2.5 days

Validity: 2 years

The aim of this course is to provide the requirements of the Global Wind Organisation (GWO) Basic Safety Training (BST) in a single package for onshore work. The GWO BST forms the basic safety training requirements for anyone working in the wind industry.

This package provides individuals with the basic first aid, manual handling & fire awareness skills, knowledge and practical guidance that will enable them to work in a safe manner in the wind industry.

The course will enable the delegate to meet emergency response training requirements for personnel new to the global wind industry. It is designed to accommodate personnel working in both the onshore and offshore sectors.

Working at Height and Refresher

Duration (First Training): 2 days

Duration (Refresher): 1 day

Validity: 2 years

The aim of this course is to give the participants the necessary basic knowledge and skills through theoretical and practical training to use PFPE, with basic skills that will enable them to work safely at height and respond effectively to emergencies in remote wind turbine environments and in accordance with the GWO BST standard.

GWO Certified Training Offered



REGISTER HERE



Advanced Rescue and Refresher

Duration (First Training): 4 days

Duration (Refresher): 3 days

Validity: 2 years

The requirements for advanced rescue training courses that are provided by GWO. The full standard training comprises of four modules:

1. Hub, Spinner and Inside Blade Rescue (HSIBR)
2. Nacelle, Tower and Basement Rescue (NTBR)
3. Single Rescuer: Hub, Spinner and Inside Blade Rescue (SR:HSIBR)
4. Single Rescuer: Nacelle, Tower and Basement Rescue (SR:NTBR)

The aim of this Advanced Rescue Training Standard will enable participants to perform entry-type injured person rescue operations, in a WTG, using industry standard rescue equipment, rescue methods and techniques, exceeding those of GWO BST, Working at Height.

REGISTER HERE



Sea Survival and Refresher

Duration (First Training): 1 day

Duration (Refresher): 1 day

Validity: 2 years

The aims of this BST Sea Survival course are to give, by theoretical and practical training, participants the ability to act safely and responsibly and to take the correct preventive actions in all aspects of offshore operations from shore to installation vessel (or WTG) and vice versa. This is both during normal operations and in an offshore wind energy environment emergency.

GWO Certified Training Offered

REGISTER HERE



First Aid and Refresher

Duration (First Training): 1 day

Duration (Refresher): 0.5 day

Validity: 2 years

The aim of this course is to provide individuals with the basic first aid skills, knowledge and practical guidance that will enable them to work in a safe manner in the wind industry. The course will enable the delegate to meet emergency response training requirements for personnel new to the global wind industry. It is designed to accommodate personnel working in both the onshore and offshore sectors.

REGISTER HERE



Fire Awareness and Refresher

Duration (First Training): 0.5 day

Duration (Refresher): 0.5 day

Validity: 2 years

To provide personnel with the basic skills that will enable them to work in a safe manner in the wind industry and to meet emergency response training requirements for personnel in to the global wind industry. It is designed to accommodate personnel working in both the onshore and offshore sectors.

REGISTER HERE



Manual Handling and Refresher

Duration (First Training): 0.5 days

Duration (Refresher): 0.5 days

Validity: 2 years

The aim of this course is to provide individuals with the basic manual handling skills, knowledge and practical guidance that will enable them to work in a safe manner in the wind industry. The course will enable the delegate to meet emergency response training requirements for personnel new to the global wind industry. It is designed to accommodate personnel working in both the onshore and offshore sectors.

REGISTER HERE



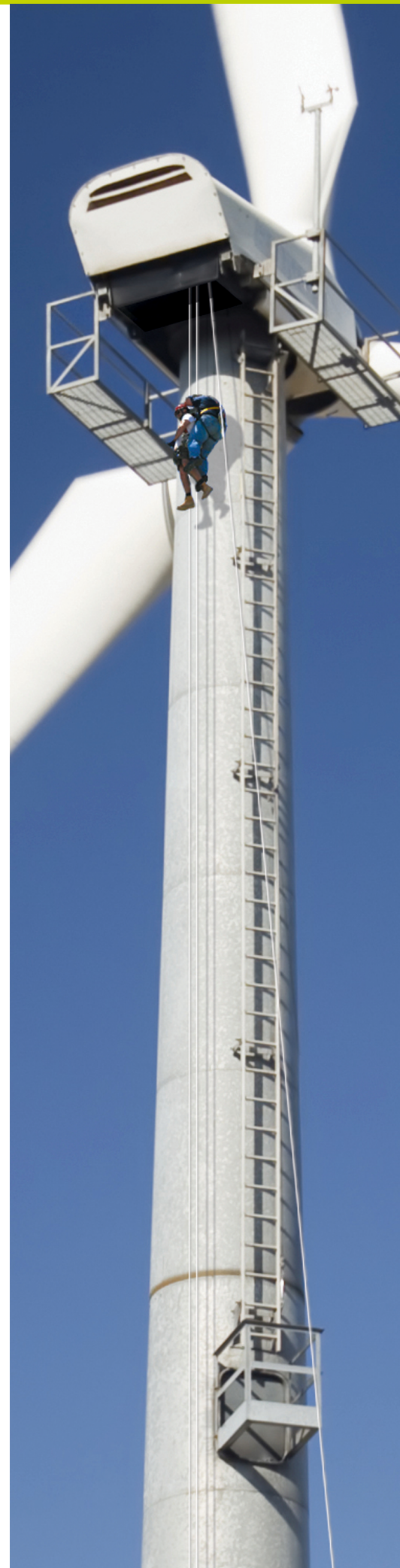
Slinger Signaller

Duration: 2 days

Validity: 2 years

Upon completion of the GWO Slinger Signaller Standard (SLS), participants will be aware of the risks and hazards encountered when working with slinger signalling within the wind industry. Furthermore, they will be able to control and mitigate those risks and hazards.

The GWO Slinger Signaller Standard training will also equip participants with the knowledge, skills, and ability to appropriately respond in the event of a hazardous situation and to increase their safety through proper use of personal protective equipment, emergency equipment, procedures, and safe craftsmanship.



GWO Certified Training Offered



REGISTER HERE



REGISTER HERE



Crane and Hoist Basic User

Duration: 2 days

Validity: 2 years

The aim of this module is to enable participants, through theoretical and practical training, to ensure safety awareness when using cranes and hoists in service operations and ensure that wind industry personal can safely operate common types of small, fixed cranes (eg 8 metric tons/metre) and fixed hoists in the wind industry onshore and offshore when following manufactures' manuals and relevant documentation and legislation.

Basic Technical Training

Duration: 4.5 days

The full standard training comprises of four modules:

- Module 1: Mechanical (BTM)
- Module 2: Electrical (BTE)
- Module 3: Hydraulic (BTH)
- Module 4: Bolt Tightening (BTB)

The aim of this Basic Technical Training prepares participants for further company specific training by providing them with the necessary training to perform basic hydraulic, mechanical, electrical and bolt tightening tasks.



Wind Turbine Construction

Fall protection challenges

When constructing wind turbines there are several danger areas where the worker is left open to fall risk.

- Tower Erection involves the use of the ladder system installed in the individual sections of the tower, some of which have a vertical fall arrest system in place which can be utilised, some which do not.
- Nacelle work involves the installation of electrical control units, all of which will require cabling to be installed through the length of the tower. Whether working from the ladder or from a service lift, a minimum of a full body harness and lanyard will be required.
- Workers will be required to work all day in fall arrest equipment. Harnesses used will need to be comfortable, lightweight, and have multiple anchor points. In addition, the equipment should incorporate tool carrying accessories and be very durable and built-to-last.
- For added comfort and safety in these difficult to access areas, accessories such as Trauma Relief Straps should be considered as they allow a suspended user to 'stand up' in their harness in the event of a fall.
- While working in the upper reaches of the tower, rescue can be almost impossible from the ground by conventional methods. Self-rescue, personal evacuation and easy to use casualty evacuation equipment is a necessity for personnel working on wind turbines.

Wind Turbine Construction | Product Selector

A Anchorages

3M™ DBI-SALA® Ladder Anchor		 24
3M™ DBI-SALA® Single Point Anchor		 24
3M™ Protecta® Nylon Webbing Sling		 24

B Body Support

3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness		 25
3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness with Belt		 25
3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness with Belt and Front Belt D-ring		 25
3M™ DBI-SALA® ExoFit™ X300 Comfort Wind Energy Climbing/ Positioning Safety Harness		 26
3M™ Protecta® Comfort Belt Style Fall Arrest Work Positioning Harness with 2 Attachment Points		 26

C Connectors

3M™ DBI-SALA® Work Positioning Rope Trigger Lanyard		 27
3M™ DBI-SALA® EZ-Stop™ Shock Absorbing Lanyard Rope Edge		 27
3M™ DBI-SALA® Sealed-Blok™ Cable Self-Retracting Lifeline RSQ		 28
3M™ DBI-SALA® Pole Climber's Adjustable Rope Positioning Lanyard for Electrical/Hot Work Use		 28
3M™ DBI-SALA® Rescue Rope Grab For Web, Stainless Steel		 29
3M™ Protecta® Shock Absorbing Lanyard, Elastic Webbing, Twin Leg		 29
3M™ Protecta® Rebel™ Cable Self-Retracting Lifelines		 29
3M™ Protecta® Viper™ Vertical Lifeline Rope Grab & Rope		 29

D Descent and Rescue

3M™ DBI-SALA® Rollgliss™ R550 Rescue Kit		 30
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Wind Turbine Maintenance

Fall protection challenges

Maintenance of wind turbines is often very dangerous because it's conducted at extreme height or in very confined areas.

- Tower Maintenance involves the use of the ladder system installed in the individual sections of the tower, or the installed service lift to access electrical conduits and structural sections. In either case, a full body harness will be required, and either a ladder safety system or a lanyard to anchor into the lift.
- Maintenance and repair of the control mechanisms for the blades will involve accessing the rotor hub which may be from the outside of the Nacelle.
- Blade inspection and repair involves specialist access equipment and rope access techniques, and can be extremely hazardous and dangerous without the correct equipment.
- Workers will be required to work all day in fall arrest equipment. Harnesses used will need to be comfortable, lightweight, and have multiple anchor points. In addition, the equipment should incorporate tool carrying accessories and be very durable and built-to-last.
- For added comfort and safety in these difficult to access areas, accessories such as Trauma Relief Straps should be considered as they allow a suspended user to 'stand up' in their harness in the event of a fall.
- While working in the upper reaches of the tower, rescue can be almost impossible from the ground by conventional methods. Self-rescue, personal evacuation and easy to use casualty evacuation equipment is a necessity for personnel working on wind turbines.

A Anchorages

3M™ DBI-SALA® Ladder Anchor		 24
3M™ DBI-SALA® Single Point Anchor		 24
3M™ Protecta® Nylon Webbing Sling		 24

B Body Support

3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness		 25
3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness with Belt		 25
3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness with Belt and Front Belt D-ring		 25
3M™ DBI-SALA® ExoFit™ X300 Comfort Wind Energy Climbing/ Positioning Safety Harness		 26
3M™ DBI-SALA® ExoFit NEX™ Rope and Rescue Safety Harness		 26

C Connectors

3M™ DBI-SALA® Work Positioning Rope Trigger Lanyard		 27
3M™ DBI-SALA® Force2™ Twin Shock Absorbing Lanyard		 27
3M™ DBI-SALA® EZ-Stop™ Shock Absorbing Lanyard Rope Edge		 27
3M™ DBI-SALA® Sealed-Blok™ Cable Self-Retracting Lifeline RSQ		 28
3M™ DBI-SALA® Pole Climber's Adjustable Rope Positioning Lanyard for Electrical/Hot Work Use		 28
3M™ DBI-SALA® Rescue Rope Grab For Web, Stainless Steel		 29
3M™ Protecta® Shock Absorbing Lanyard, Elastic Webbing, Twin Leg		 29
3M™ Protecta® Rebel™ Cable Self-Retracting Lifelines		 29

D Descent and Rescue

3M™ DBI-SALA® Rollgliss™ R550 Rescue Kit		 30
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Wind Turbine Offshore Maintenance

Fall protection challenges

Offshore wind turbine maintenance presents its own unique challenges in addition to the ones already highlighted.

- Fall protection equipment for offshore workers is exposed to harsher elements and thus must be designed for extreme environmental conditions.
- Self-retracting lifelines need to offer a high level of moisture ingress protection, with components completely sealed inside the housing to prevent saltwater corrosion.
- Harnesses also should be washed more often because of excessive exposure to saltwater.

A Anchorages

3M™ DBI-SALA® Ladder Anchor		 24
3M™ DBI-SALA® Single Point Anchor		 24
3M™ Protecta® Nylon Webbing Sling		 24

B Body Support

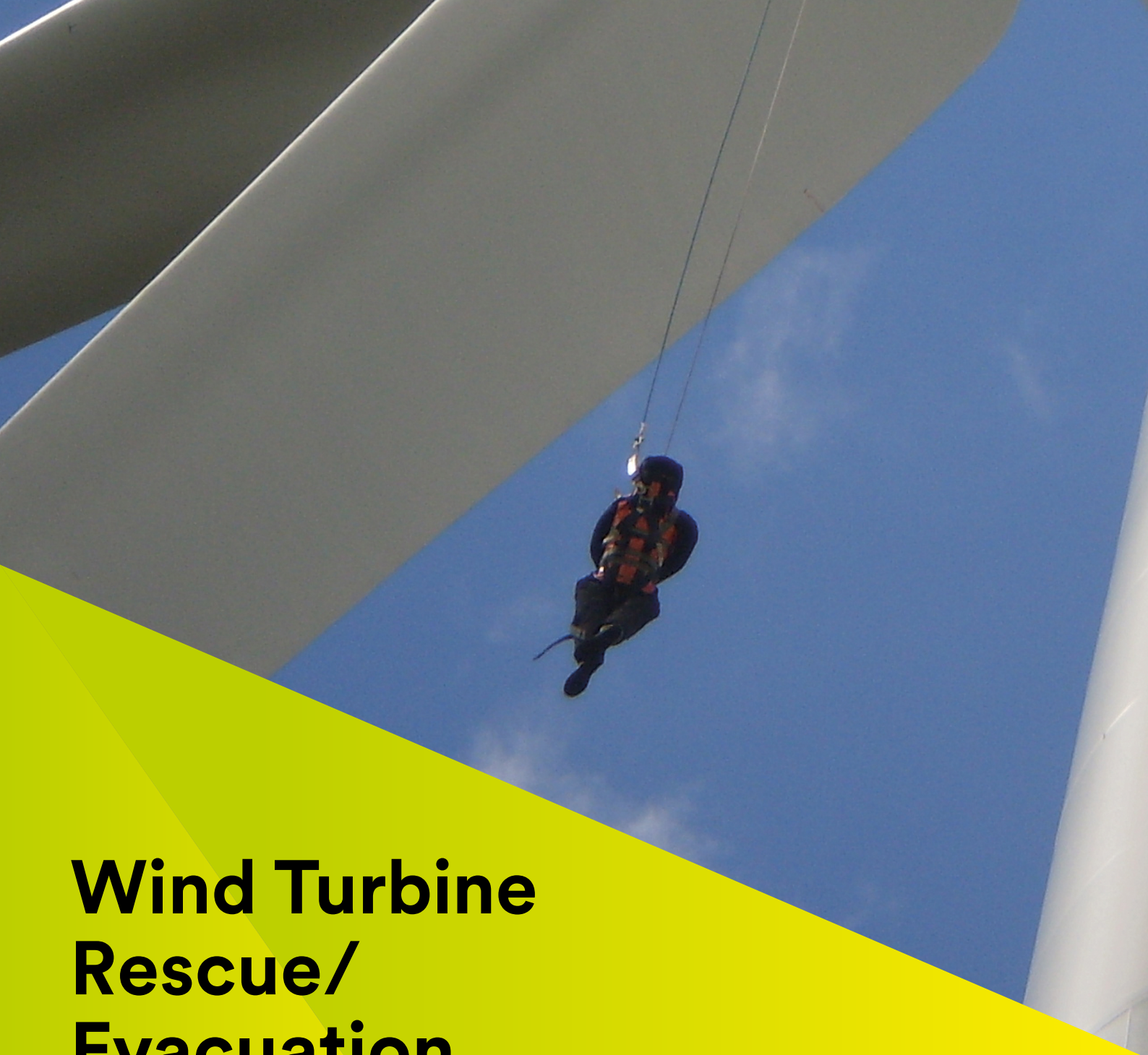
3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness		 25
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3M™ DBI-SALA® ExoFit™ XE200 Wind Energy Harness with Belt and Front Belt D-ring		 25
3M™ DBI-SALA® ExoFit™ X300 Comfort Wind Energy Climbing/ Positioning Safety Harness		 26
3M™ DBI-SALA® ExoFit NEX™ Rope and Rescue Safety Harness		 26

C Connectors

3M™ DBI-SALA® Work Positioning Rope Trigger Lanyard		 27
3M™ DBI-SALA® Force2™ Twin Shock Absorbing Lanyard		 27
3M™ DBI-SALA® EZ-Stop™ Shock Absorbing Lanyard Rope Edge		 27
3M™ DBI-SALA® Sealed-Blok™ Cable Self-Retracting Lifeline RSQ		 28
3M™ DBI-SALA® Sealed-Blok™ Self- Retracting Lifelines Stainless Steel, 15m		 28
3M™ DBI-SALA® Rescue Rope Grab For Web, Stainless Steel		 29
3M™ Protecta® Shock Absorbing Lanyard, Elastic Webbing, Twin Leg		 29
3M™ Protecta® Rebel™ Cable Self-Retracting Lifelines		 29

D Descent and Rescue

3M™ DBI-SALA® Rollgliss™ R550 Rescue Kit		 30
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Wind Turbine Rescue/ Evacuation

Fall protection challenges

- While working in the upper reaches of the tower, rescue can be almost impossible from the ground by conventional methods. Self-rescue, personal evacuation and easy to use casualty evacuation equipment is a necessity for personnel working on wind turbines.
- The essence of evacuation or rescue is speed. Rapid descent, available for multiple users in the event of fire or complete mechanical failure is an absolute must for personnel constructing or maintaining the wind turbine.
- Self-rescue and casualty evacuation could be needed at any point along the tower, including the Nacelle at the top.
- All rescue and evacuation equipment should be quick and easy to use. Non-installed, or temporary equipment will need to be lightweight and quick to use in relatively confined areas.

C Connectors			D Descent and Rescue		
3M™ DBI-SALA® Sealed-Blok™ Cable Self-Retracting Lifeline RSQ			3M™ DBI-SALA® Rollgliss™ R550 Rescue Kit		
3M™ DBI-SALA® Rescue Rope Grab For Web, Stainless Steel					



Product Icons

Lanyard Icons

Lanyards:

				
Lanyard	Carabiner	Screw Carabiner	Scaffold Hook	Snap Hook
				
Size of Gate Opening	Connector: Lanyard End	Connector: User End	Rope Type	

Type:

	
Material Type	Material: Aluminium
	
Material: Steel	

General Icons

					
Dimension	Kilogrammes	Maximum Load	Quantity	User	User (Value)
					
Breaking Point	Diameter	Certification	Certification (Value)	Certification (Value & Class)	Twin Leg

Type:

	
Material: Stainless Steel	Material: Thermoplastic
	
Coating: Galvanised Steel	

Self-Retracting Lifeline Icons

				
Housing	Retrieval Winch	Rescue	Lifeline Material	Connector Material

Certification

The European Commission has set out Directive 89/686/EEC detailing harmonised standards intended to control the design and use of rescue and personal protection equipment against falls from height. These standards must be adhered to, and are applicable in all the member states.

Fall Protection equipment relating to any of these harmonised standards must be tested by a notified body. The CE logo marked on equipment indicates conformity.

Only approved fall protection equipment may be used when working at height.



Guided type fall arresters
including a rigid anchor line



Test Methods



Guided type fall arresters
including a flexible anchor line



General requirements for instructions for
use, maintenance, periodic examination,
repair, marking and packaging



Lanyards



Industrial Safety Helmets



Energy Absorbers



Anchor Devices



Belts and restraint lanyards
for work positioning



Sit Harnesses



Retractable Type Fall Arresters



Rescue Harnesses



Full Body Harness



Mountaineering Rope Clamps



Connectors



Descender Devices



Personal Fall Protection
Systems



Rescue Lifting Devices

Besides EN standards, the American National Standards Institute (ANSI) and US Occupational Safety and Health Administration (OSHA) also have standards that provide requirements for fall protection equipment. Products that meet ANSI or OSHA standards have the icon below indicated within this brochure.





3M™ DBI-SALA® Ladder Anchor

CE CE
EN795 EN50308

A Construction | Maintenance | Offshore

Part No.	
2100174	22.2 kN

The ladder anchor is ideal for working in difficult to access areas on either side of a ladder. The product is manufactured from high grade corrosion resistance materials, making the anchor suitable for internal and external use.

- Simple and easy to install
- Suitable for aluminium ladders
- Large attachment eye to accommodate a scaffold hook
- No rung supports needed
- Installed over 2 rungs to spread load in the event of
- A fall to preserve the ladder
- For single user only



3M™ DBI-SALA® Single Anchor Point

CE CE
EN795 EN50308

A Construction | Maintenance | Offshore

Part No.	
7234110	22.2 kN

Anchor point suitable for use as a single attachment point for fall arrest or fall restraint by a single user.



3M™ Protecta® Nylon Webbing Sling

CE
EN795
CLASS B

A Construction | Maintenance | Offshore

Part No.	
AM450/60	25 mm x 60 cm
AM450/80	25 mm x 80 cm
AM450/100	25 mm x 100 cm
AM450/150	25 mm x 150 cm

3M Protecta anchor straps are built from top quality materials offering high strength and durability to stand up to the toughest environments. Anchorage connectors are the unsung heroes of most fall protection systems, often overlooked but critical components because they securely attach your system to the anchorage.

- Polyester webbing
- Four safety seams
- Visible colour
- Up to max 2 users
- For single user only

XE200 Harnesses

The XE200 comfort harness is built with durable 26kN polyester webbing, lightweight aluminium hardware, hybrid comfort padding with breathable mesh under-side, and reflective 3M™ Scotchlite™ panels. Equipped with modern technology in the dorsal D-ring area for efficient connections and a secure harness fit for your workers, the XE200 also features revolving torso adjustment alongside auto-locking quick-connect buckles to optimise the fit. All models are equipped with low-profile suspension trauma relief straps.



3M™ DBI-SALA® ExoFit XE200 Comfort Wind Energy Safety Harness

CE
EN361

B 🏗️ Construction | Maintenance | Offshore

Part No.	Size	Chest Buckle	Legs Buckle
1112741	1	Quick-Connect	Auto-Locking Quick Connect
1112742	2	Quick-Connect	Auto-Locking Quick Connect
1112743	3	Quick-Connect	Auto-Locking Quick Connect

- Aluminium front centred fall arrest D-ring
- Aluminium automatic stand-up rear fall arrest D-ring
- Aluminium hip D-rings
- Shoulders and back comfort padding with 3M™ Scotchlite™ reflective material
- Leg comfort padding with 3M™ Scotchlite™ reflective material



3M™ DBI-SALA® ExoFit XE200 Comfort Wind Energy Positioning Safety Harness

CE CE
EN358 EN361

B 🏗️ Construction | Maintenance | Offshore

Part No.	Size	Chest Buckle	Legs Buckle
1112744	1	Quick-Connect	Auto-Locking Quick Connect
1112745	2	Quick-Connect	Auto-Locking Quick Connect
1112746	3	Quick-Connect	Auto-Locking Quick Connect

- Aluminium front centred fall arrest D-ring
- Aluminium automatic stand-up rear fall arrest D-ring
- Aluminium work positioning D-rings
- Shoulders and back comfort padding with 3M™ Scotchlite™ reflective material
- Leg comfort padding with 3M™ Scotchlite™ reflective material



3M™ DBI-SALA® ExoFit XE200 Comfort Wind Energy Positioning Safety Harness with Front Belt D-Ring

CE CE
EN358 EN361

B 🏗️ Construction | Maintenance | Offshore

Part No.	Size	Chest Buckle	Legs Buckle
1112747	1	Quick-Connect	Auto-Locking Quick Connect
1112748	2	Quick-Connect	Auto-Locking Quick Connect
1112749	3	Quick-Connect	Auto-Locking Quick Connect

- Aluminium front centred fall arrest D-ring
- Aluminium automatic stand-up rear fall arrest D-ring
- Aluminium work positioning D-rings
- Aluminium front belt D-ring
- Shoulders and back comfort padding with 3M™ Scotchlite™ reflective material
- Leg comfort padding with 3M™ Scotchlite™ reflective material



3M™ DBI-SALA® ExoFit X300 Comfort Wind Energy Climbing/Positioning Safety Harness



B  Construction | Maintenance | Offshore

Part No.	Size	Chest Buckle
1113210	S	Auto-Locking Quick Connect
1113211	M	Auto-Locking Quick Connect
1113212	L	Auto-Locking Quick Connect
1113213	XL	Auto-Locking Quick Connect
1113214	2XL	Auto-Locking Quick Connect

The 3M™ DBI-SALA® ExoFit™ X300 is designed for those who refuse to compromise. The X300 harnesses are outfitted with high-quality components that have been developed to enhance the safety, convenience and performance for working at height on your job site. The X300 comfort harness is built with 6,000lb polyester webbing, robust nylon/polyester hybrid comfort padding with reflective 3M Scotchlite™ panels, and lightweight aluminum hardware. New technology in the Dorsal D-ring area helps workers make efficient connections and maintain a safe harness fit.



3M™ DBI-SALA® ExoFit NEX™ Rope and Rescue Safety Harness



B  Maintenance | Offshore

Part No.	Size	Chest Buckle	Legs Buckle
1113370	S	Dual Lock	Quick Connect
1113371	M	Dual Lock	Quick Connect
1113372	L	Dual Lock	Quick Connect
1113373	XL	Dual Lock	Quick Connect

3M DBI-SALA ExoFit NEX Harnesses incorporate advanced technologies in the industry. These multi-use harnesses are ideal for professionals in the wind energy sector. The harnesses combine specialised designs, components and hardware to optimise rope rescue and industrial rope access work.



3M™ Protecta® P200 Construction Climbing/Positioning Safety Harness



B  Construction

Part No.	Size	Chest, Legs and Waist Buckle
1161627	S	Pass-Through
1161628	M/L	Pass-Through
1161629	XL	Pass-Through

3M™ PROTECTA® Comfort Belt Style Fall Arrest Harness is our safety harness which provides reliable protection, comfort and convenience; now with upgraded features and a sleek, modern look.

Our comfort belt style fall arrest harness has enhanced features including water and stain resistant webbing, auto-resetting lanyard keepers, as well as softer and more durable hip padding. The safe and conveniently placed front D-ring helps you stay balanced and centred. No loose web ends help you stay comfortable and tangle-free, additionally stain and water-resistant webbing keeps the harness clean and dry. A robust and durable belt provides easy tool-bag carrying. Impact indicators make it simple to check the harness for damage and help ensure it's safe to use. Covered identification labels help protect important information for the life of the harness.



3M™ DBI-SALA® Work Positioning Trigger Lanyard - Rope

CE CE
EN358 EN362

C Construction | Maintenance | Offshore

Part No.								
1200313	Adj. to 2 m	11 mm		21 mm	(A)		21 mm	(A)

The 3M DBI-SALA adjustment system has been improved to give the option to easily adjust the length of the lanyard during use using the black trigger, even in harsh environments when the ropes wet and dirty.

- Braided rope, diameter 11 mm
- Max weight capacity: 140 kg



3M™ DBI-SALA® Force2™ Elastic 100% Tie-Off Shock Absorbing Lanyard

CE
EN355

C Maintenance | Offshore

Part No.							
1246032	1.8 m		2		20 mm		60 mm

The Force2™ lanyard is ideal when there is no overhead anchorage and your only option is to tie off at your feet. It can be used for up to a 12 ft. (3.7 m) free fall, or as a standard lanyard up to a 6 ft. (1.8 m) free fall for workers that require a capacity of 311 to 420 lbs. (141-190 kg). They feature the world's smallest and lightest shock absorber and our exclusive Hi 10™ Vectran™ energy management materials that provide second to none abrasion, cut and chemical resistance and efficient shock absorption. Should a fall occur, the lanyard and its unique energy absorbing system will activate stopping the fall and reducing the forces imposed on the user to safe levels. Our patented self locking snap hooks which are widely recognised in the industry for their user friendly operation and are preferred by safety professionals and workers alike. Specifically designed to allow you to open and connect the hook without getting your thumb or fingers in the way even with gloves on.



3M™ DBI-SALA® EZ-Stop™ Shock Absorbing Lanyard Rope Edge

CE
EN355

C Construction | Maintenance | Offshore

Part No.							
1246547	1.5 m		2		21 mm		60 mm

3M DBI-SALA's EZ-Stop Edge Tested lanyards are designed to offer greater security to users exposed to falls over or around edges and tested rigorously over a 0.5 mm radius edge. All edge tested products in the DBI-SALA range are differentiated from DBI-SALA standard shock absorbing lanyards and bear the Edge tested logo.

- The fall arrest solution for all users working at height exposed to falls around or over edges.
- 12 mm diameter rope offers durability whilst maintaining flexible handling for ease of use. Orange accenting indicates suitability for edge applications.



3M™ DBI-SALA® Sealed-Blok™ RSQ™ Self-Retracting Lifeline – Cable

CE EN
EN360 341
CLASS 2

C Construction | Maintenance | Offshore | Rescue

Part No.					
3400917	25 m	SS	SS	■	■



3M™ DBI-SALA® Sealed-Blok™ Self-Retracting Lifeline – Cable

CE
EN360

C Offshore

Part No.			
3400951	15 m	SS	SS

3M DBI-SALA continues to set the standard for quality in fall protection. The 3M DBI-SALA Sealed-Blok SRL family has a fully comprehensive line of sealed SRLs and decades of proven field service.

Durable

- Stands up to harsh environments
- Heavy-duty design
- Corrosion resistant
- Stainless steel end-plates
- Aluminium housing

Reliable

- Dynamic components sealed inside the housing (IP69K rated)
- Protects from particles entering product
- Protected against complete or continuous submersion in water
- Decades of service
- Field proven in the toughest environments
- Design extends maintenance intervals and product longevity



3M™ DBI-SALA® Pole Climber's Adjustable Rope Positioning Lanyard for Electrical/Hot Work Use

OSHA

C Construction | Maintenance

Part No.	
1234083	8 ft. (2.4 m)

3M™ DBI-SALA® Pole Climber's Adjustable Web Positioning Lanyards have a build quality that is second to none, backed by decades of design, research, manufacturing know how and on the job performance. These lanyards are designed without shock absorbers, making them ideal for positioning or restraint applications.

The web, rope and chain positioning lanyards are as tough as the guys who use them and feature abrasion resistant construction and high strength materials. Our patented self locking snap hooks which are widely recognised in the industry for their user friendly operation and are preferred by safety professionals and workers alike. Specifically designed to allow you to open and connect the hook without getting your thumb or fingers in the way even with gloves on.



3M™ DBI-SALA® Rescue Rope Grab For Web, Stainless Steel

CE
EN567

C Construction | Maintenance | Offshore | Rescue

Part No.

500033

A web grab that can be used to facilitate a rescue from the crown, monkey board, ladder or other work locations on the structure.



3M™ Protecta® Shock Absorbing Lanyard

CE
EN355

C Construction | Maintenance | Offshore

Part No.							
1260348	1.5 m	■	2		18 mm		50 mm

- Elasticated webbing reduces lanyard length when not under tension, reducing the risk of trip and snagging hazards
- 140 kg max. rated weight capacity - higher than standard fall arrest lanyard



3M™ Protecta® Rebel™ Self-Retracting Lifeline - Cable - 30 m

CE
EN360

C Construction | Maintenance | Offshore

Part No.				
3590690	30 m			

3M Protecta Rebel Self-Retracting Lifeline's are available with a heavy duty aluminium or a durable lightweight thermoplastic housing, providing an economical fall protection solution without compromising on performance or safety.

Integrated ergonomic carrying handle and top swivel connector ensure easy transport and installation. Built-in fall indicator hook allows visual yearly inspection. 3M Protecta Rebel Cable blocks meets the latest CE sharp edge certification when used with an extension sling.



3M™ Protecta® Viper™ LT Manual Rope Grab with Energy Absorber

CE
EN353-2

C Construction

Part No.

AC4002

The 3M™ Protecta® Viper™ LT Rope Grab is a restraint and fall arrest device which can be used in a variety of vertical and horizontal applications. With its simple opening system, a user can move with ease along 3M™ Protecta® Viper™ LT 12.5 mm diameter mm rope to perform their daily tasks.

Edge tested conforms to VG11.075 – EN353-2.

3M™ DBI-SALA® Rollgliss™ R550 Rescue and Descent with Rescue Hub

D Construction | Maintenance | Offshore | Rescue

Emergency Escape

Use the Rollgliss 550 rescue device as an escape device when it is imperative to get to the ground as quickly as possible.

Assisted Rescue Pick-Off

Use the Rollgliss 550 rescue device for an assisted pick-off rescue when a victim is unable to get to safety alone. Lower to the victim and hook up to them and use the device to descend to safety.

Assisted Rescue

Attach the Rollgliss 550 rescue device to the top of the wind turbine and lower the hook end to the victim and lower them to the ground.

Custom Rescue

The Rollgliss 550 rescue device can be used in many custom rescue situations. Use the system to repel down the structure to safety.



Optional Rescue Hub

Allows to perform not only evacuation but also rescue

Bi-Directional Hub

Rope descends from either side which brings one hook up as the other goes down, allowing for immediate use after each descent

Optional Bracket

Allows quick and easy connection to the ladder rung in order to optimise effectiveness of the rescue

Durable Rope

9.5 mm (3/8") static kernmantle rope rated for durability

Multiple Length Options

Lengths from 10 to 200 m for 2 persons and from 10 to 500 m for 1 person

Weight Capacity

282 kg

Rescue and Descent Units

CE CE EN
EN341 EN365 1496

Part No.	Length
3307120	120 m
3307150	150 m
3307175	175 m
3307200	200 m
3307300	300 m

Accessories

Part No.	Description
2000112	Twist Lock Self-Locking Carabiner with 11/16 in. (1.75 cm) Gate
3320002	Edge Protector with Carabiner
9506162	Carrying Bag
AG570	Pulley
AM450/120 AM450/80	Nylon Webbing 25 mm x 120 cm 25 mm x 80 cm
5000033	Rescue Rope Grab For Web, Stainless Steel



5000033



2000112



AM450/120
AM450/80



3320003



AG570



9506162

Wind Energy Industry Products | Vertical Lifelines

3M™ Protecta® Cabloc™ vertical climbing system can be permanently installed to a ladder or other vertical structure that requires frequent access. It provides a safe, functional and practical means of access and egress.

The 3M Protecta Cabloc vertical climbing system can be used in several configurations with different cable, traveller and absorber options and components in either stainless or galvanised steel.



Features and Benefits

The 3M Protecta Cabloc vertical climbing system is well known throughout the world and is a very popular choice for wind power companies.

- Top and bottom anchors for ladders available in either galvanised or stainless steel. Easy and quick to install, saving time for the installer.
- Bottom anchor tension indicator. Provides visual indication that the cable is correctly tensioned.
- 3M Protecta Cabloc Pro traveller which can be used on structures that incline up to 15°. To suit a wide variety of structures.
- By passable intermediate cable guide for use with the 3M Protecta Cabloc Pro traveller. The traveller can smoothly bypass the new intermediate brackets without the need for user intervention allowing hands free continuous movement on the system.
- Anti-inversion feature on the 3M Protecta Cabloc Pro traveller. Prevents the user mounting the traveller on the cable incorrectly.
- The cable is supported at 10 m intervals with intermediate cable guides which prevents adverse wind chatter and cable fretting.
- Traveller automatically follows user and locks in event of a fall. Providing uninterrupted movement for the user during ascent and descent whilst maintaining complete safety
- Components are made from high quality materials with corrosion resistant finishes which ensures 3M Protecta Cabloc climbing system is suitable for installation in a wide range of aggressive environments.
- 3M Protecta Cabloc climbing system conforms with and is tested in accordance with EN353-1 standards, CNB/P/11.073 and is CE marked. This provides the end user with complete confidence that the system meets the latest standards and legislation.
- Users can attach and detach at any point along the length of the climbing system allowing easy access to platforms and adjacent work areas.

Wind Energy Industry Products | Vertical Lifelines



The 3M™ DBI-SALA® Lad-Saf™ permanently installed vertical safety system offers complete fall protection for the worker. It is designed to work with many different styles and lengths of ladders on structures like wind turbines, communication towers, buildings, water towers and more.

The flexible cable system consists of a top and bottom bracket that act as anchors for a steel cable that runs the length of the climbing area. The Lad-Saf X2 or Lad-Saf X3 traveller connects the worker to the system, automatically follows the user during the climb and locks onto the cable in the event of a fall, allowing the user to regain their footing.

Features and Benefits

- Fast and simple do-it-yourself installation to most fixed ladders with rung clamps, bolts and standard tools reduces overall costs.
- Extremely easy to use traveller travels with worker without being attended to, can be attached anywhere along the lifeline and locks in the event of a fall.
- Depending upon your rung strength, the system can be used by 1, 2, 3 or 4 users for added worksite flexibility.
- Hundreds of different brackets, styles and configurations are available to suit almost any application.
- Stainless steel construction offers ultimate durability and corrosion resistance in harsh environments for added longevity.
- Integrated shock absorbing top bracket reduces forces imposed on the ladder structure during a fall for added safety.
- Bypassable intermediate cable guides, 1 every 7.6 m, Prevents cable wear against the ladder and permits the climber to manually bypass without disconnecting for added safety and productivity. Built-in tension indicator in the bottom bracket takes the guesswork out of installation and correct tensioning.





Fall Protection

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