THE FUTURE OF HORIZONTAL LIFELINES

SINGLE WIRE LIFELINE

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OVERVIEW

Our latest 8mm Single Wire Horizontal Lifeline system is packed with innovative new features for increased functionality and simpler installation.

- Checkline II is the second generation system retaining the core features of CheckLine but with a series of technically advanced performance improvements and installation aids.
- Whether working on exposed roof edges, catwalks, servicing roller coasters or maintaining cranes, Checkline II adapts to ensure you are always kept safe.
- Our systems are placed in challenging environments all over the world.
- The posts have patented rubber damper technology which allows installers to fix directly to the top layer of most roofing panels.
- If through fixing is required, we have an unlimited range of brackets, adaptors, weather seals, thermal foam filled posts and fasteners to suit all roof types.

“Sometimes when you go back to the beginning and rewrite the storybook the ending is far greater.”

CHECKMate LIFTING & SAFETY

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new features

- Ambi-sided Ball Trolley
- Standard Trolley
- Overhead Trolley
- New End Brackets
- Modular Corners
- Top Fix Posts
- Riser Posts
- Range of spun base plates
- Adjustable base plates
PLANNING YOUR SYSTEM

Understanding how to use all the system components is the key to a safe, professional and effective solution. We have broken the system design principles down into two clear approaches:

- All fall arrest systems are unique and the variables - such as span, number of users, ground clearance, structure to be fixed to, fixing method - are vast.

- Because of this it is impossible to test every different layout or application and we recommend that detailed calculations are performed for each solution.

- External verification should be sought from a qualified structural engineer to confirm suitability of structure.

system options

TopFix
Systems that are mounted using our TopFix damper posts, these are normally connected on the top of a roof surface without the need for bolting to structural members through the roof.

InLine
These systems alway have an inline loadcell and damper but do not need the TopFix post system to reduce energy. The system manages dynamic loadings via the InLine Damper System (IDS) and are usually bolted directly to steel, brick or concrete.
checkball
Attachment Devices

The smooth transition through intermediate and corner brackets has taxed lifeline designers for decades. When we set out to create a new attachment device, we knew we had to do something not only novel and functional but also revolutionary. Our new CheckLine Ball Trolley has all the answers.

- The ultra compact CLB CheckLine Ball Trolleys have a unique stainless steel ball bearing design with a swivel handle allowing the device to be pulled as close to the centre line of the cable as possible. This stops the device from twisting and ensures it passes intermediates smoothly.
- The device is Ambi-sided and can be used on either side of the lifeline.
- The removable model opens by a simple two movement button and can be fitted to the line at any point.
- The fixed model enters the system via an inline spring loaded gateway which can be fitted at the end of the system or along the lifeline as required, or simply left permanently installed.

“We challenged the ordinary, we pushed the boundaries and we raised the benchmark.”
In the past using traditional lifeline shuttles overhead has limited many systems. So using heavy fall arrest blocks or SRLs for instance was a big no no, the height of the line was restricted and the ability to run smoothly over intermediates and seamlessly around corners unheard of.

But at last there is a solution that actually works. Developed using a unique formula of synthetics, stainless steel and low friction roller bearings. The triple-wheeled device can pass directly over intermediate brackets and travel freely around 90° corners whilst connected to large and heavy devices. This gives a truly two dimensional system.

- Capable of running up to 9m spans between intermediates.
- Allows the connection of large fall arrest blocks up to 18m.
- Passes over intermediate brackets freely.
- Travels around up to 90° corners.
Unique one piece electropolished stainless steel casting with perfectly formed tapers, this enables a smoother transition from cable to bracket and up to 180° rotation.

- Intermediate brackets can rotate through 180° and lock in position via a simple slotted reversed form in the casting. The bracket is then secured in place with an M10 stainless steel bolt.

- Because the bracket can be rotated it allows installers to position it at the exact angle for optimum tracking, independent of roof slopes.

- The MPB can be mounted directly on to the TopFix post or installed directly to any suitable structure when used in conjunction with our InLine damper system.
checkline epa
Extremity Post Anchors

Drop forged from stainless steel, both types of anchor give the system high strength and performance characteristics.

TopFix End Post
- Cast from 304 stainless steel, electropolished and nine stage powder coated for ultimate corrosion protection.
- Packed with rubber dampers and energy deforming star washers. The entire post is clamped together via an M16 forged 316 stainless steel polished eyebolt.
- The post is simply connected to a range of baseplates with M8 nuts.
- There is a baseplate to suit most common roof types from composite panels to standing seam, PVC, Green roofs and Concrete covered in bitumen.

InLine End Bracket
- Forged from 316 stainless steel, polished and with a short M16 eyebolt.
- The bracket is designed to ensure up to three bolt locations in any orientation.
- The bracket is suitable for all installs using the InLine principles.
- Supplied complete with a neoprene gasket, to seal from water ingress and prevents bi-metallic corrosion.
Most systems require two end posts or end anchors to complete a system or change direction. With the new Cross Over Post and plate it is now possible to run two systems back to back even on corners. This reduces components, install time and cost.

**Cross Over Post**
- Investment cast 304 stainless steel post.
- Laser cut and electropolished 6mm stainless steel plate.
- A2 stainless steel M16 bolt.
- Can be used for corners or ends.
A range of straight, 15° or 45° corner tube options are available, this allows up to a 90° corner to be formed from a pair of 45° tubes and various other angle permutations.

Installers can now tackle all manner of challenging corners including a transition from horizontal to incline.

The vertical support tube provides strength and stability, preventing the special rubber dampers from compressing under service loads.

In the event of a fall the support tube will allow the rubber dampers to move freely, deforming the energy absorbing star washer and reducing loads by up to 60%.

All corner tubes can be freely rotated through 360°.
PPESLL-509 External corner face fixed. Complete with 2 x 45° tubes PPESLL-307.

PPESLL-518 Internal corner face fixed. Complete with 2 x 45° tubes PPESLL-307.

2 x PPESLL-503 TopFix Corner Bracket. Each complete with 1 x 45° tube and 1 x straight tube PPESLL-328.
Our LCD calibrates the installation by telling the installer a safe cable tension range. This is shown clearly with a Green Scale.

If the system is damaged or activated, the indicator will enter the Red Scale and visibly shows the system has been deployed.

Calibrated compression spring continuously expands and contracts to ensure constant cable tension during installation and thermal movement of the structure.

The LCD is designed to give a safe range of inline tensions and continuously maintains a constant range of inline forces even during thermal expansion and contraction.

Manufactured from stainless steel and electropolished.

All installed horizontal lifelines should be able to demonstrate by both calculation and test verification what the extremity peak loads are. Ultimately if you don’t know what preload is being applied at the point of installation you are unable to control the output.
The Inline Damper System is required when fixing directly to brick, concrete or steel structures and TopFix posts are not being used.

It can also be used in addition to the TopFix post to reduce end loads further if required on fragile roof surfaces.

Manufactured from T6 hard anodised alloy and 304 stainless steel and packed with a special compound rubber.

The unique design can progressively reduce end loads by up to 40%.

Installed InLine with the CheckLine system, connected to end bracket using an adjustable toggle and crimped on to the 8mm cable using a special crimper.

Can be used in conjunction with a TopFix End Post to reduce loads by over 60%. See our full technical data for further information.

Every installation is different and end loads vary so it is important to seek professional engineering verification when proving the integrity of a structure.

Checkmate can provide a range of force graphs to assist engineers in their calculations.
Whether your project consists of historic slate tiles and timber, concrete cover with bitumen, standing seam or composite roof panels, Checkmate has a solution to connect your system safely to the building or structure. And if we don’t, our team of engineers will rapidly create a custom fit solution.

Pictured below are just some of the roofing posts and plates we offer, including our brand new adjustable roof plate. Contact our technical or sales teams for further information.
go green
Eco-friendly Roof Solutions

There is no doubt about it, green and eco-friendly building developments are on the rise.

So we have developed various solutions, including the U-rated thermo-filled Green Roof Riser Post.

This effectively eliminates any cold spots on the roof and ensures the thermal membrane is not broken.

For information on these custom solutions please speak with our technical team.

fittings & install
Cable, Terminations & Accessories

A comprehensive range of end fittings, cables, roof clamps, fixings and installation tools complete the range.

Contact our technical or sales teams for further information.

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