TEMPORARY LEADING EDGE PROTECTION SYSTEMS

PERSONAL WORK RESTRAINT & FALL ARREST SYSTEMS

SAFETY SYSTEMS FOR TRAILER ACCESS

TEMPORARY SITE STAIRS
Falls from height remain the single biggest cause of work-related fatalities and serious injuries in the construction industry.

In 2005 the Work at Height Regulations were introduced, aiming to encourage the avoidance of working at height if possible and where it cannot be avoided, to use the best practicable means of ensuring the safety of those working at height.

The Regulations apply to all work at height where there is risk of a fall that is liable to cause personal injury. They place duties on employers, the self-employed and any person who controls the work of others to use work equipment or other measures to minimise the distance and consequences of potential falls.

**Those with duties under the Regulations must ensure that:**

- All work at height is properly planned and organised
- Those involved in work at height are competent
- The risks from work at height are assessed, and appropriate work equipment is selected and used

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**BS EN 13374 (CLASS A) Design Criteria for J-SAFE Temporary Leading Edge Protection Systems**

1. **Horizontal Load**  
   (Acting perpendicular to the edge protection system)

   The temporary edge protection system shall be designed to withstand a static load of 0.3 kN applied anywhere perpendicular to the plane of the system, except toeboards, as illustrated in the illustration below, where the maximum deflection should not exceed 55mm.

2. **Parallel Load to the Guardrail**

   The temporary edge protection system shall be capable of withstanding a horizontal force of 0.2 kN at the most onerous point, as shown in the illustration right, where maximum deflection is not exceed 55mm.

3. **Accidental Loading (Vertical)**

   The barrier regardless of its support shall be capable of resisting a downwards point load (vertical) of 1.25 kN and 6 kN on a length of 100mm.

   This load shall be applied in the most unfavourable position of the temporary edge protection system in downward direction within a sector of 10° from the vertical.

4. **Horizontal load requirements for toeboards**

   Force required to meet deflection requirement: 0.3 kN

   Force applied to meet strength requirement: 0.2 kN

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**AVOID WORK AT HEIGHT**  
These systems can be installed on the ground or from structures with guard-rails if designed and planned beforehand.

**USE COLLECTIVE MEASURES**  
Use work equipment or collective measures such as a temporary edge protection system to prevent falls where work at height cannot be avoided.

**PERSONAL PROTECTION**  
Use personal safety equipment to minimise the distance and consequences of potential falls, where collective measures cannot be implemented or have to be temporarily removed.
A temporary edge protection system that is compatible with most modular pontoon systems. Ideal for civil engineering projects or maintenance work on bridges and other structures standing in water.

The system comprises of two components only: Post and Barriers. Post centres are maximum 2400mm centres.
J-Safe Site Bridge allows users to safely cross ditches and excavations.

2m Long  
Weight 72kg - Max distributed load 1850kg

3m Long  
Weight 110kg - Max distributed load 1750kg

4m Long  
Weight 142kg - Max distributed load 1500kg

6m Long  
Weight 207kg - Max distributed load 850kg

- Made of Aluminium.
- Foldable handrails for easy transport and quick assembly.
- Stackable for storage and transport.
- Anti-slip surface.
- Lifting loops in all four corners.
- High toe-board for maximum protection.
- Anodized aluminium handrails.
Installation of the J-SAFE system is faster and less expensive using the slab edge bracket with the cast-in anchorage.

The cast-in anchor is fixed to the slab edge formwork by nailing its fixing cap onto the slab edge formwork at maximum 2.4 mtr spacings.

The anchor is inserted over the cap which will pull out on the formwork exposing the anchorage point into which the slab edge bracket is connected with 15mm Dwyidag Rod.

For non cast-in fixings, Reusable Excalibur Screwbolts are extremely strong and can be re-used up to 10 times if undamaged. This makes this method extremely economical if the Temporary Edge Protection system is to be moved between floors or areas.
This configuration of the J-SAFE CONNECT system positions the Temporary Edge Protection system on top of the concrete deck. There are two options both offering ease and speed of installation comprising only Base Sockets, Posts and Barriers. There are no loose components or special tools required removing the risk of falling objects during installation.

This system can be vertically extended using Top extension barriers providing a guardrail height of 1800mm.

If the Temporary Edge Protection system is to be moved between floors M12 X 100 Excalibur screwbolts provide easy to use economical anchorages which can be re-used several times.

Fixing to top of Concrete Decks

Short lengths (normally 200mm) of plastic duct are placed into the wet concrete during the deck pours ensuring that they are vertically aligned.

A J-SAFE CONNECT installation video is available from our youtube channel.
The J-SAFE Hi-Guard Temporary Edge Protection System has an overall height of 1.8 metres to protect workers on deep decks or working from platforms adjacent to perimeters where a slip or fall from this elevated height could lead to them falling over a standard height guardrail system.

J-SAFE Hi-Guard meets design criteria offering a range of options.
WHAT IS FALL RESTRAINT?

A Fall Restraint system allows the user enough access to reach the perimeter of a building to conduct their task but prevents them from reaching a point where a fall could occur.

A Fall Restraint kit will comprise Anchorage Points connected with a Temporary Horizontal Lifeline, maximum length 20 metres from which a maximum of five workers can attach their harnesses using an Adjustable Work Restraint Rope System between the rear harness attachment point and the Horizontal lifeline.

Decking out a falsework system during the construction of a suspended reinforced concrete deck presents hazards to the formworker’s because they are working on a skeletal grid of primary and secondary beams which they are progressively decking in plywood.

Typically, Slings will be tied around column starter bars forming anchorage points for a horizontal lifeline up to 20 metres in length.

This has the capacity for five workers in Fall Restraint.

Portable Anchorage Point specifically designed to protect in Fall Arrest, operatives when building temporary structures and deckimg them out.

Conical sleeves are cast into the top of columns which when cured forms an anchorage socket into which the Portable Column Davitt (Alsipercha) is inserted.

The end anchorage point holds a self retracting fall arrestor which will lock and suspend the user in the event of an accidental fall.

The Davitt has a 2.5 metre length boom arm that rotates 360 degrees around the anchorage point providing the operative a working area under the anchorage point 125 square metres.

Davitts are supplied with Fall Arrestors and Lifting Slings.

Compliant with EN 13374 Class B, Portable Fall Arrest Anchorages devices.
J-SAFE CONNECT is installed into cast-in sockets or with M12 reusable Screwbolts, drilled and installed on site.

Cast-in Anchor’s will reduce installation time and remove the associated hazards of using power tools for prolonged periods.

J-SAFE Technical support work in liaison with the concrete panel manufacturer to set out anchor positions providing optimum coverage along perimeters, voids and leading edges where there is the potential for a fall from height.

For site drilled applications, the CONNECT Post is compatible with the M12 Excalibur Screwbolts, which can be re-used ten times if handled correctly.
Temporary edge protection system specifically designed to protect those working at height on structures using pre-cast twin wall panels to form the walls.

The adjustable bracket sits on the external face protecting the workforce from falling over the perimeter edges when they are installing floor slabs on the supporting internal faces.

The internal supports are inserted into expendable plastic sleeves which remain in the cavity concrete allowing the edge protection system to be removed.
Guardrail system that prevents accidental falls into excavations of light debris or persons.

The J-SAFE system consists of three components:

• Adjustable Clamp.
• Post.
• Steel Mesh Barrier with inbuilt Toe-Board.

The Adjustable Clamp adjusts to sheet pile wall thickness with a housing where the post inserts over which the barrier is attached. The installer uses only a hammer to erect this system.

Installed at a maximum 2.4 metre spacings, barriers overlap anywhere along their length which means that clamp positions are not critical and that the J-SAFE system can be adapted to any plan shape and size.

An entire safe access and egress system is possible when designed using J-SAFE pedestrian gates and Site Stairs into the excavation. A full design can be prepared by the J-SAFE Technical team to optimise the economies of the system.

Alternatively for applications where the adjustable clamp for trench sheets or sheet piles is impractical, the j-safe freestanding systems could be suitable for arranging around the perimeter excavation.
Temporary edge protection system anchored into platform sections utilising crane lifting points on platform.

J-SAFE Barriers are available in blue or grey specifically for utilisation on rail infrastructure projects.
J-SAFE will provide comprehensive work methods for the installation of our systems including personal safety equipment for work restraint and fall arrest that may needed to install and remove temporary edge protection.
Commonly utilised on retaining walls, river walls or precast wall panels, J-SAFE edge protection for this application utilises a web bracket, vertical post holder which is anchored into the wall face using resin anchorage compound for masonry or existing concrete walls, the dwyidag holes from the formwork system. For new concrete structures or if used on precast wall panels, a 16mm socket type anchor.

The J-SAFE system is installed at maximum 2400 centres, with the benefit of adaptability to the shape of the structure or need to avoid obstructions or projections because the barriers overlap anywhere along their length which means that wall bracket positions are not critical.

J-SAFE barriers are manufactured from steel mesh that prevents falling debris or objects and are the equivalent of twin guardrails and toeboard in one component. The J-SAFE Temporary Edge Protection system utilising the Wall Bracket as the supporting assembly forms a robust continuous mesh screen around the working area protecting the workforce from the risk of a fall from height.

Alternatively for applications where the wall bracket is impractical, the J-SAFE Freestanding system could be suitable for arranging around the perimeter of the excavation.
A clamped Temporary Edge Protection system is an effective method of providing collective protection to a workforce when it is impractical to anchor into the structure.

In vertical configuration, J1 & J2 Adjustable Clamps are commonly used to protect workers from falls over a leading edges of Bridge parapets, Precast beams and Concrete decks.

Adjustable Clamps are available in two sizes suitable to the application and working space around the clamped area of the structure and are delivered in the correct configuration for the closed distance to reduce site erection time.

- J1 0mm - 200mm
- J2 0mm - 330mm jaw setting 1
- J2 300mm - 800mm jaw setting 2

J-SAFE Adjustable Clamps are straightforward to assemble using only a hammer to tighten the collared nut. Specialist training is not required, instruction guides are sent to the user.

BS EN 13374 Class A Compliant.
A clamped Temporary Edge Protection system is an effective method of providing collective protection to a workforce when it is impractical to anchor into the structure.

In horizontal configuration, Adjustable Clamps are commonly used to protect workers from falls over a leading edge of walls, tanks, bridge parapet upstands and precast beams.

Adjustable Clamps are available in two sizes suitable to the application and working space around the clamped area of the structure and are delivered in the correct configuration for the closed distance to reduce site erection time.

J1 0mm - 200mm
J2 0mm - 330mm jaw setting 1
J2 300mm - 800mm jaw setting 2

J-SAFE Adjustable Clamps are straightforward to assemble using only a hammer to tighten the collared nut. Specialist training is not required, instruction guides are sent to the user.

BS EN 13374 Class A Compliant.
This configuration of the J-SAFE CONNECT system positions the Temporary Edge Protection system on top of the concrete deck.

There are two options both offering ease and speed of installation comprising only Base Sockets, Posts and Barriers.

There are no loose components or special tools required removing the risk of falling objects during installation.

This system can be vertically extended using Top extension barriers providing a guardrail height of 1800mm.
Refurbishment and upgrading of bridges over motorways including replacement of guardrails requires a Temporary Edge Protection system that reduces the potential for the operatives to fall from the structure.

The J-SAFE parapet plate has been designed to install underneath existing parapet guardrails positioning the anchorage into the concrete deck. Anchor positioning is variable, the parapet plate has a long slot so that features and rebar can be avoided.

When anchored into position, J-SAFE posts and barriers are fitted into the parapet plates, again using the existing bridge parapet guardrails to protect the installer.

The installation work takes place behind guardrails throughout and installers operate without the need for personal protection.

When the J-SAFE Temporary Edge Protection system is in place, the bridge guardrail can be removed for refurbishment or replacement.

The re-installation of the permanent guardrail and removal of the J-SAFE temporary guardrail follows the installation sequence in reverse.

The J-SAFE system is installed at maximum 2400 centres, with the benefit of adaptability to the shape of the structure or need to avoid permanent guardrail post positions because the barriers overlap anywhere along their length.

BS EN 13374 Class A Compliant.
A Freestanding Temporary Edge Protection system is an effective method of collective protection when it is impractical to anchor into or attach adjustable clamps onto the structure.

The J-SAFE Freestanding Temporary Edge Protection system comprises only three components that are EN 13374 Class A Compliant when placed on a concrete surface.

Common applications are precast floor phase-breaks, or to protect the perimeter of excavations. It can also be utilised on gabions with tie wire.

The system is installed at maximum 2000mm centres, with the benefit of adaptability to the shape of the structure because the barriers overlap anywhere along their length.

J-SAFE barriers are manufactured from steel mesh that prevents falling debris or objects and are the equivalent of twin guardrails and toeboard in one component. The J-SAFE Temporary Edge Protection system utilising the Freestanding Base as the supporting assembly forms a robust continuous mesh screen around the working area protecting the workforce from the risk of a fall from height.

Please contact a J-SAFE representative for technical advice relevant to your specific application.
The Modular Freestanding Guardrail System provides temporary or permanent leading edge protection without fixing through roofing, floor structures or any platform that needs fall protection where access is required for public use, maintenance or emergency purposes. This system gains its stability from its efficient cantilever design.

It is easily assembled using three principle components, pre-assembled Uprights, Counter-balance weights manufactured from eco-friendly recycled plastic and 2.5m length Rail’s. The entire system is assembled with only an Allen key, additional components are available to assemble corners or stop-ends.

This system has a maintenance free life-span of 25 yrs, screw fixings are grade A2 stainless steel, posts and rails have a smooth galvanized finish (EN ISO 1461) and eco-friendly re-cycled weights.

This system is designed and tested to Temporary Edge Protection EN 13374.
SteelSafe Site Ready is a Systemised Temporary Leading Edge Protection system for structural steel framed structures, designed to meet the requirements of EN 13374 Class A.

It is easy to install, using pre-assembled components, designed specifically to provide collective fall prevention for the installation of metal decking, precast floor’s and external envelope systems.

Steelsafe Site Ready is a planned system that requires early involvement with the Principle Contractor and Steel Fabricator.

Hole positions are calculated on individual sections and added into the model then subsequently drilled during the manufacturing process.

Consisting of only two components, Post Assemblies and Mesh Barriers that in one component replaces twin guardrails and toe-board without any loose parts.

This configuration is attached to the steel section before it is lifted which removes the need for fixing whilst working at height.

**Design**

AJ-SAFE Technician calculates hole positions using design criteria that provides complete coverage around the structures perimeter and voids. Design information is input into the 3D model of the structure.

**Fabrication**

The model is fed into a CNC machine to automate the manufacture of the steel sections. The holes into which SteelSafe Post assemblies are fixed, are drilled during this process.
Remove the need to work at height

SteelSafe Site Ready is designed so that it can be fitted to the steel sections on the ground, eliminating the need to work at height.

Pre-Assembly

Using the completed model and plan layouts of the floors, the J-SAFE Technician prepares a schedule of post Assemblies specific to areas of the structure with an indexed plan layout.
If the structure is to be externally clad with façade panels, it is important that the Temporary Edge Protection System is planned centrally on top of the steel sections leaving the perimeter area clear for panel attachment.

Sacrificial Sockets made to slab depth length are welded to the top flange of the posts which support mesh barriers. Post spacings are maximum 2400mm and a detailed design will be prepared plotting socket locations during the fabrication phase.

A support hook enables vertical adjustment to accommodate access for metal decking and concrete finishing. Upon completion of the external envelope, the edge protection system is removed and sacrificial sockets are filled with grout.
Underslung Clamps provide an economical method of collective fall prevention for operatives working on the steel frame before the structures external walls are in place.

SteelSafe Underslung is installed onto erected structures from MEWP’s or onto steel sections before they are lifted into the structure.

Underslung Clamps attach to the bottom flange sections (unsuitable for channels) and set to the required horizontal spacing. Posts are inserted into the clamps to support mesh barriers which slide over the posts at maximum horizontal spacings of 2400mm.

Height adjustment is achieved using the single screw support retaining clip.

Two clamp sizes available with maximum cantilever length of 700mm. Hi-Guard version also available for mesh barrier height of 1700mm.

Technical support including component plotting and site instruction available.
A steel modular framed structure is made from wall sections that are manufactured off-site to maintain quality under factory conditions and to insure against adverse weather related delays.

The panel is manufactured from steel channels that are assembled into internal and external wall panels including door and window openings.

The J-SAFE system is incorporated into the manufacturing process by placing integrated connection points into the structural frame to accommodate J-SAFE. Post assemblies which in turn support the J-SAFE mesh guardrail barrier.

Structures are fast to erect on site as the J-SAFE System is fixed to the wall panels pre-crane lift or alternatively from MEWP’s and once installed, provides a continuous guardrail system for progressive storey lifts, greatly reducing the risk of the installers falling from height.

The J-SAFE System is compliant with BS EN13374 Class A, instructional and demonstration support is provided.
Timber framed buildings are erected using factory manufactured internal and external wall panels which are joined to form multi-storey structures.

Timber Structures are fast to erect on site, and consistent quality is guaranteed due to the off-site facilities in which they are manufactured.

The J-SAFE Temporary Edge Protection system is screwed to the face of the wall sections during erection to provide a safe working environment for the fixing of floor decking panels onto the walls.

The J-SAFE system is fast, safe and easy to install, usually from MEWP’s onto erected walls, but can be designed to install onto the panels before they are lifted into position.

There are only two components, Post assemblies which are preset to reduce erection times and j-safe barriers. When installed the J-SAFE System provides a continuous guardrail system for progressive storey lifts, greatly reducing the risk of the installers falling from height.

The J-SAFE System is compliant with BS EN 13374 Class A. Instructional and demonstration support is provided.
Pre-cast concrete staircases are used in most commercial and domestic projects as they remove the need for formwork and once installed offer immediate access for follow on trades. There is however an obvious risk that operators can fall from the staircase if it isn’t fitted with Temporary Edge Protection equipment.

Stairguard is a complete system for stair units that anchor or clamp onto stair flights and landings.

It is easy to install consisting principally of a steel mesh barrier which is supported on two posts that sit in Adjustable clamps or sockets that are temporarily fixed to the stair flights using reusable screw anchors and sockets.

J-SAFE technical representatives will prepare a detailed schedule of equipment for your project.
Stairguard socket fixed using 12mm screwbolt anchor

Adjustable Stairclamp
Stair Safe is a temporary guardrail system designed for housing and residential projects that is a faster and more cost effective solution than traditional scaffolding.

Stair Safe is manufactured from lightweight components that are easy to handle and are adaptable for smaller stairwells and floor openings directly onto stair newels.

Stair Safe telescopic handrails work diagonally on stair flights and horizontally on landing areas. They are available in six lengths ranging from 500mm to 3.5 metres.

Stair Safe Rails can be fixed into timber floors or Newell posts.
Aluminium Adjustable Site Stairs for safe and efficient temporary access on embankments or into excavations.

 Manufactured from Aluminium with locked-in double handrails on both sides of the stairs. They ensure that workers are facing forwards when climbing or descending and are able to safely carry small tools, equipment and materials in safety. The overall width is 900mm, tread width 680mm.

 When intended for use on an embankment or slope, the Site Stair is supplied with an anchor kit comprising steel stakes to prevent movement.

 Comprehensive pictorial instructions are provided to ensure that they are correctly installed by two user’s and ready for use in minutes.

 Adjustable Site Stairs are compliant with EN 12811.

 There is a double handrail on both sides, which automatically adjusts to the correct height.

 So whatever the angle of the Stairway, the treads will always be horizontal with a locking mechanism that ensures the stability of the Stairway and keeps it at the correct angle.
Adjustable Site Stairs for safe and efficient movement of site operatives between floors on structures. Manufactured from steel or aluminium with locked-in double handrails on both sides of the stairs. They ensure that workers are facing forwards when climbing or descending and are able to safely carry small tools, equipment and materials in safety. The overall width is 900mm, tread width 680mm.

There is a double handrail on both sides, which automatically adjusts to the correct height. So whatever the angle of the Stairway, the treads will always be horizontal with a locking mechanism that ensures the stability of the Stairway and keeps it at the correct angle.

Comprehensive pictorial instructions are provided to ensure that they are correctly installed by two user’s and ready for use in minutes.

Adjustable Site Stairs are compliant with EN 12811
## Adjustable Site Stairs

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Number of Steps</th>
<th>Overall Length (mm)</th>
<th>Height and Length at 30° Incline (mm)</th>
<th>Height and Length at 55° Incline (mm)</th>
<th>Total Weight</th>
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<tbody>
<tr>
<td>900148</td>
<td>3 Step Steel Site Stair</td>
<td>1030mm</td>
<td>950mm 510mm 700mm</td>
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<td>900150</td>
<td>6 Step Steel Site Stair</td>
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<td>1750mm 850mm 1200mm</td>
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<td>900152</td>
<td>9 Step Steel Site Stair</td>
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<td>2350mm 1200mm 1700mm</td>
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<td>900162</td>
<td>12 Step Steel Site Stair</td>
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<td>3000mm 1500mm 2200mm</td>
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<td>900160</td>
<td>18 Step Steel Site Stair</td>
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<td>4600mm 2200mm 3200mm</td>
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<td>144kg Inc handrails</td>
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**Longer Steel Site Stairs can be made by joining the above sets together**

<table>
<thead>
<tr>
<th>Step Steel Site Stair</th>
<th>Overall Length (mm)</th>
<th>Height and Length at 30° Incline (mm)</th>
<th>Height and Length at 55° Incline (mm)</th>
<th>Total Weight</th>
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<td>21 Step Steel Site Stair</td>
<td>5950mm</td>
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<td>24 Step Steel Site Stair</td>
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<td>27 Step Steel Site Stair</td>
<td>7600mm</td>
<td>6700mm 3250mm 4700mm</td>
<td>5800mm</td>
<td>331kg Inc handrails &amp; supports</td>
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<td>30 Step Steel Site Stair</td>
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<td>7450mm 3600mm 5350mm</td>
<td>6450mm</td>
<td>391kg Inc handrails &amp; supports</td>
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<td>33 Step Steel Site Stair</td>
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<td>8200mm 3900mm 5700mm</td>
<td>7000mm</td>
<td>420kg Inc handrails &amp; supports</td>
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<tr>
<td>36 Step Steel Site Stair</td>
<td>10000mm</td>
<td>8900mm 4250mm 6300mm</td>
<td>7600mm</td>
<td>492kg Inc handrails &amp; supports</td>
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</table>
Trailer-Guard is a universal kit comprising Adjustable Clamps, Posts, Guardrails and ladder which when installed protects the three open sides of an articulated trailer with a maximum length of 13600mm. It is best utilised for lorries loaded with cargo that the unloader does not climb onto e.g. Steel Reinforcement or Trench Sheets as it provides a statutory height Guardrail when the unloader is on the vehicle bed.

Trailer-guard is attached to the truck or trailer-bed, and does not require specialist tools to install, it can be fully erected using only a hammer from the ground and the trailer bed is only accessed when the system is completely erected. Clamps are designed to fit any trailer type. Posts simply slot into them and guardrails are self locating, typically two people can erect Trailer-Guard onto a full sized trailer in ten minutes.

Trailer-Guard is delivered in a specially made storage bin complete with a cargo ladder for safe access and egress once the guardrails are assembled.

J-SAFE Trailer-Guard Temporary Edge Protection System for lorries, trucks, trailers.

Guardrail System for vehicles. EN 13374 Class A compliant.

A J-SAFE TRAILER-GUARD installation video is available from our youtube channel.
Trailer-Safe is a fall arrest anchorage system for workers loading and unloading cargo and equipment delivered and removed from site on flat bed lorries and trucks that require manual connection of slings and chains. For example:

- Steel sections
- Pre-cast concrete
- Timber panels
- Formwork Equipment
- Site accommodation
- Scaffolding equipment

Trailer-Safe is easily and quickly assembled because it comprises of only three principle components. Base platform, counterbalance block and Fall arrest davitt with anchorage point. A cargo ladder is included for safe access and egress.

Two Trailer-Safe units, spaced six metres apart will provide overhead anchorage coverage for a 13.6 metre length trailer. The overhead anchorage points to which the unloaders are attached, move in an arc to increase the area of operation.

When erected, Trailer-Safe units are portable and can be moved around using a forklift truck with adequate lifting capacity or by crane.