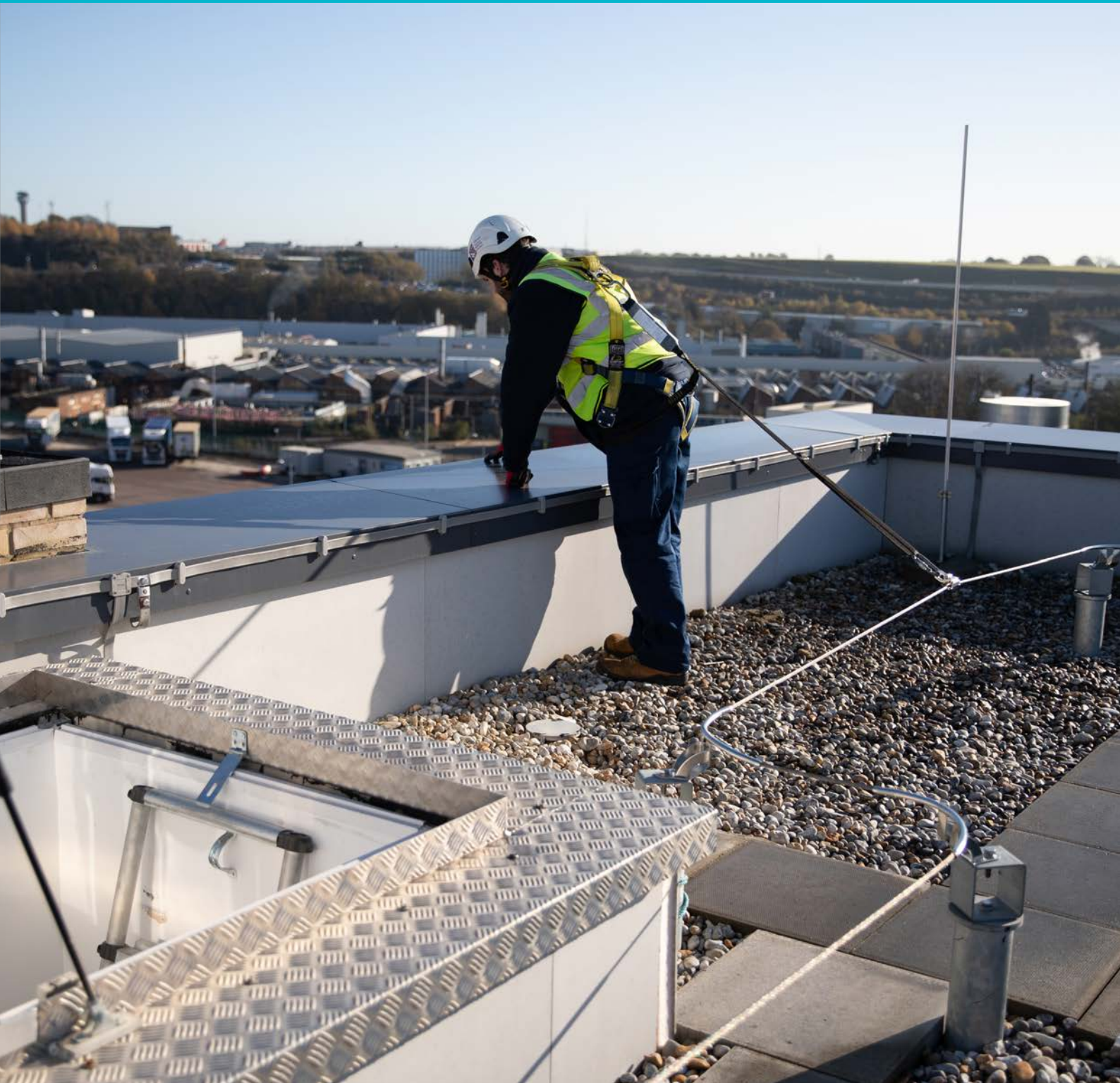




SEPARATING PEOPLE FROM HAZARDS

# Rooftop Safety Audit





## How do We Assess Risk on the Rooftop?

Kee Safety Fall Protection Experts perform a critical analysis of the entire rooftop surface to identify the hazards where workers are exposed to the greatest risk. This ensures that the most dangerous areas are protected immediately with state-of-the-art fall protection systems that meet the world's most rigorous safety standards.

**We assess risk based on two factors:**

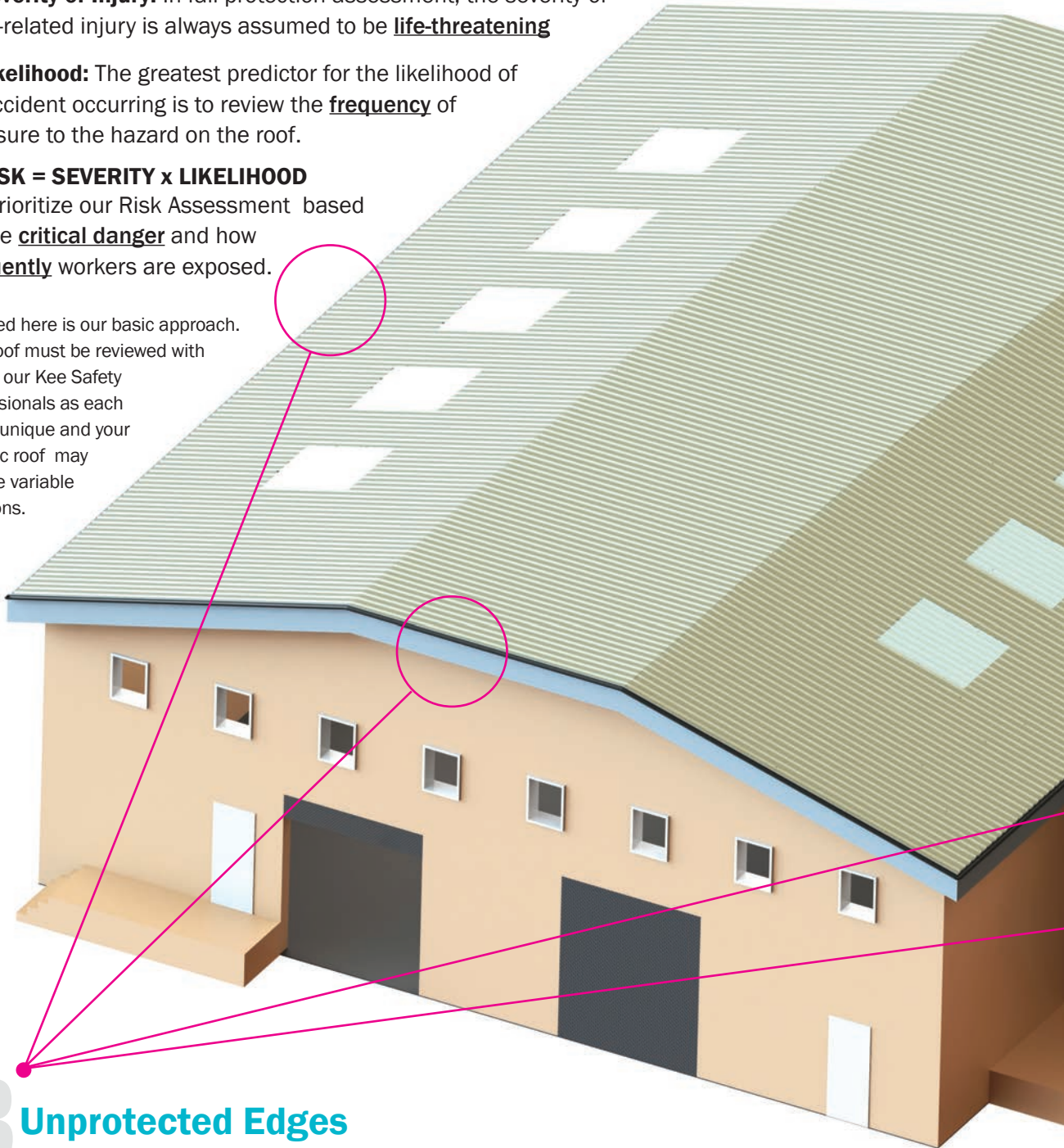
**1. Severity of Injury:** In fall protection assessment, the severity of a fall-related injury is always assumed to be **life-threatening**

**2. Likelihood:** The greatest predictor for the likelihood of an accident occurring is to review the **frequency** of exposure to the hazard on the roof.

**3. RISK = SEVERITY x LIKELIHOOD**

We prioritize our Risk Assessment based on the **critical danger** and how **frequently** workers are exposed.

Outlined here is our basic approach. Your roof must be reviewed with one of our Kee Safety professionals as each site is unique and your specific roof may require variable solutions.



### 3 Unprotected Edges

The edge of the roof is the most visible hazard, and typically the hazard most people want to protect first. Proximity to the roof edge is a significant factor in identifying the likelihood of an accident occurring. Most regulations require that any building where work is performed within 2m of an open roof edge, each worker must be protected from falling with a guardrail system or other approved safety system. Frequently, a worker's purpose for accessing the roof is to service a piece of equipment. It is important to document if the equipment is too close to an unprotected edge.

## 2 Rooftop Openings

### 1 Access Points

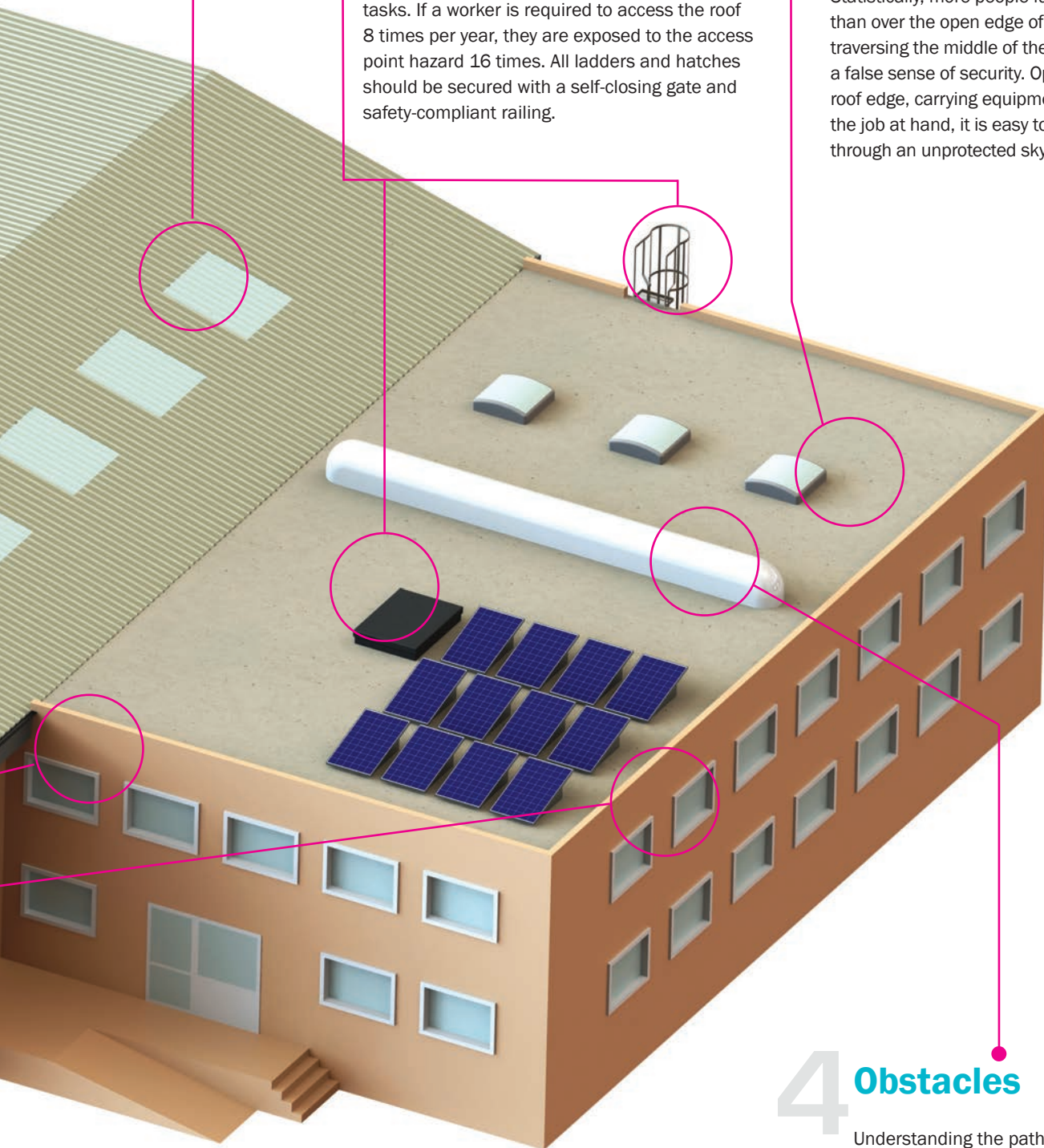
Access points are the most frequented hazard on any rooftop. Workers are exposed to this risk twice - every time they enter and exit the roof to perform tasks. If a worker is required to access the roof 8 times per year, they are exposed to the access point hazard 16 times. All ladders and hatches should be secured with a self-closing gate and safety-compliant railing.

Openings are the most often overlooked hazards, so they are extremely critical to protect. Skylights and rooflights are considered to be a hole in the rooftop and all rooftop openings should be a serious risk concern.

Statistically, more people fall through skylights than over the open edge of a roof. As a worker is traversing the middle of the rooftop, they have a false sense of security. Operating far from the roof edge, carrying equipment, or focused on the job at hand, it is easy to misstep and fall through an unprotected skylight opening.

### 4 Obstacles

Understanding the path that workers take across the roof is necessary for a complete fall protection assessment. Obstacles on the roof force workers to unsafely climb over or step around the obstructions, often placing workers at risk by walking too close to the roof edge and slipping off.





## Rooftop Fall Protection: The Kee Solution

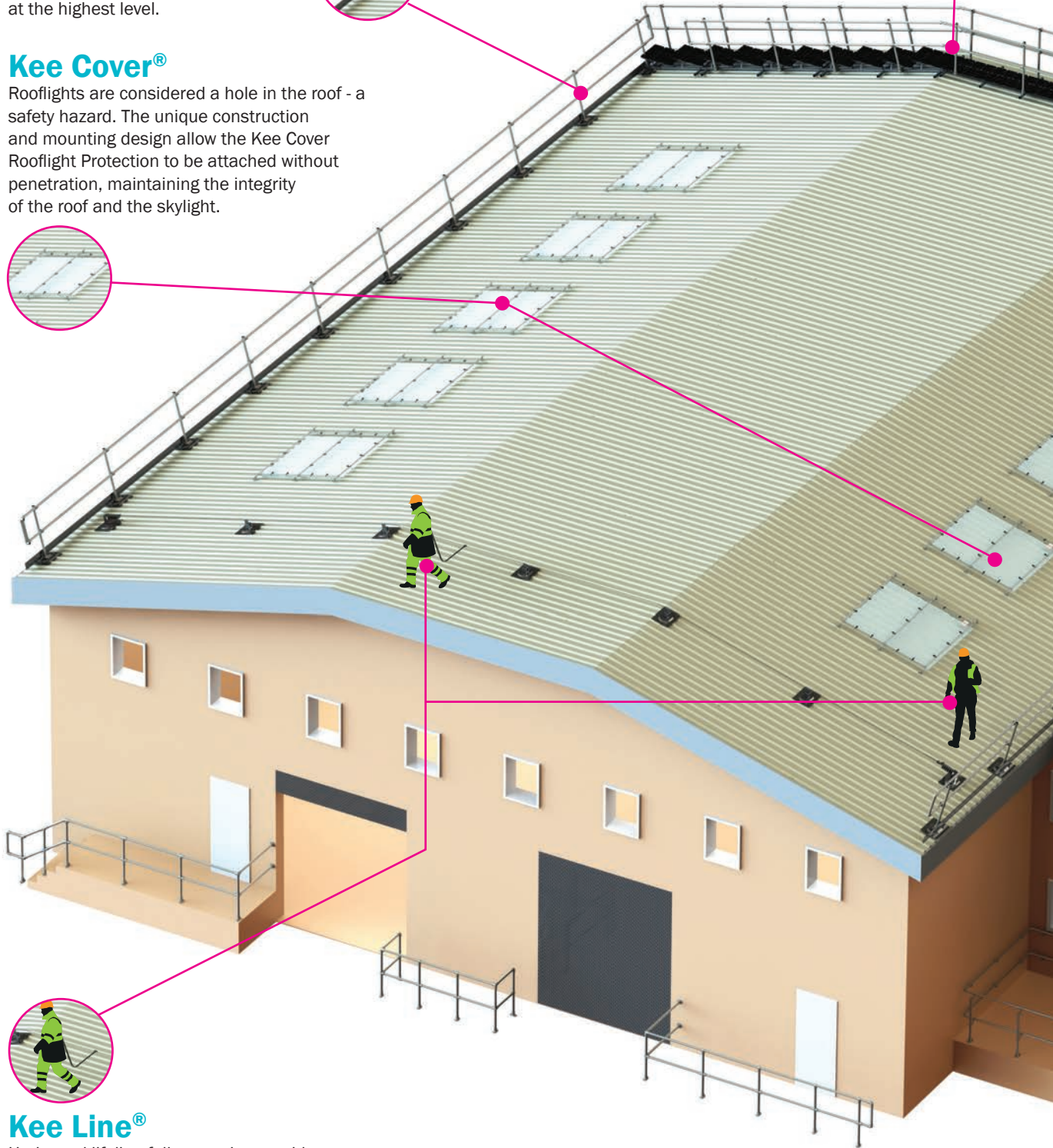
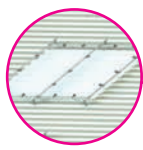
When access to the entire roof is required, the safest, most comprehensive solution is a perimeter railing system that surrounds and protects all roof edges.

### Kee Guard®

Dependable railing for all metal roof types provides non-penetrating safety at the highest level.

### Kee Cover®

Rooflights are considered a hole in the roof - a safety hazard. The unique construction and mounting design allow the Kee Cover Rooflight Protection to be attached without penetration, maintaining the integrity of the roof and the skylight.



### Kee Line®

Horizontal lifeline fall protection provides continuous protection when working at heights. Our system accommodates up to 3 users and can be mounted either directly onto the roof surface or on to the building structure.



## Keep Walk®

On a standing seam metal roof, or metal profile roof, a level walkway system provides a safe, anti-slip and level surface to avoid tripping over the seams, crowns and valleys.



## Keep Dome®

A safety access and railing system designed for secure egress/ingress through a dedicated roof hatch. Railing protection supports safety when the hatch is open. Self-closing gate protects workers when entering and exiting the rooftop.



## Keep Gate®

Self-closing gate provides permanent protection for any openings, ladder/stair access points, roof hatches and restricted areas, where access for roof maintenance is required.



## Keep Step®

When obstacles exist on the rooftop (piping, ventilation systems, partitions between buildings or level changes) SAPs can be custom designed to provide safe access over those hazards.



## Keep Dome®

A free-standing, modular solution deployed around skylights, roof lights and dome lights, allowing access to rooftops without the hazard of falling through glazed areas.



## Keep Guard®

On a flat roof, a protected perimeter limits access to the leading edge. Installing a modular, free-standing railing system that does not penetrate the roof membrane provides a safe barrier to the roof edge.



## Keep Anchor®

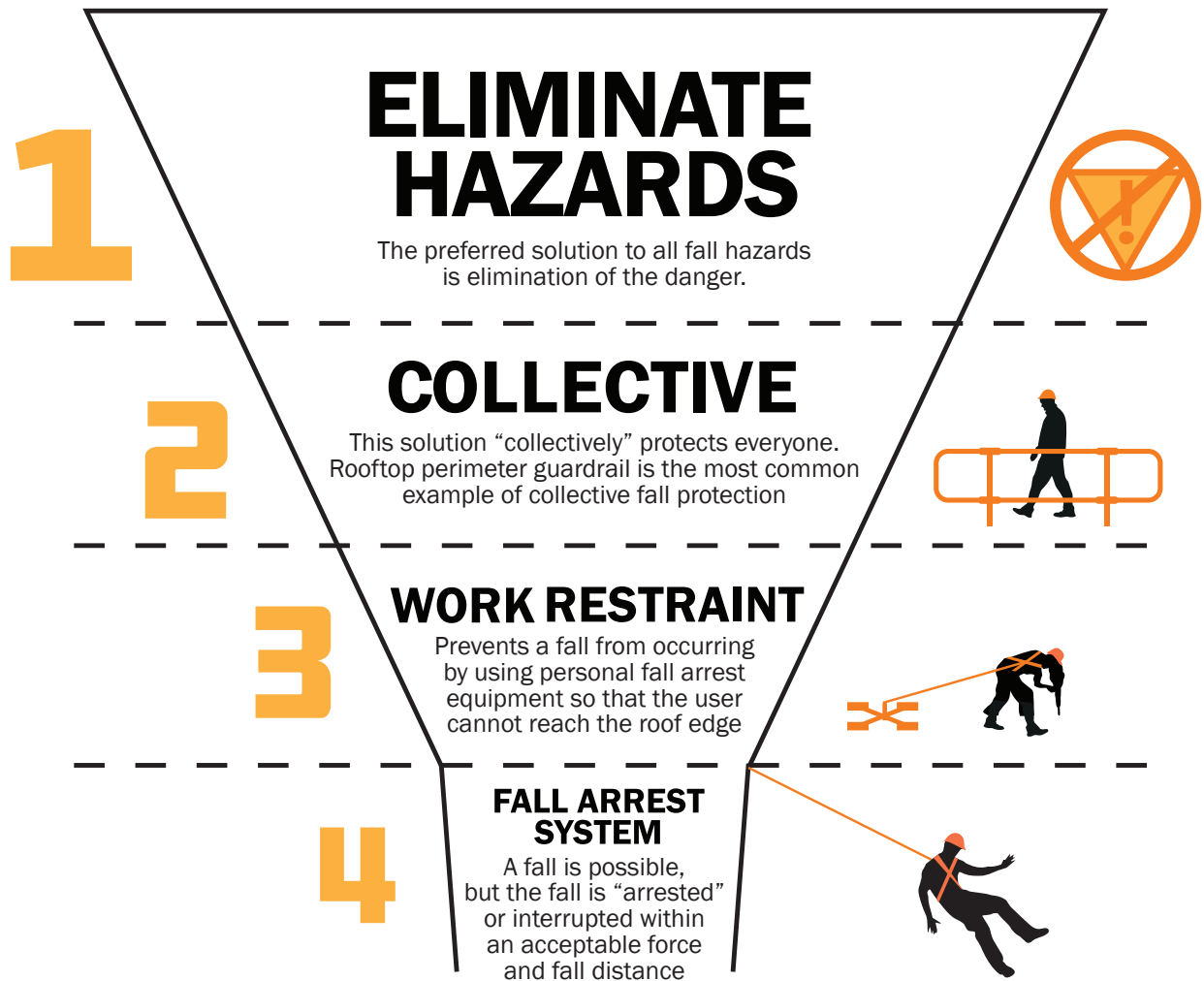
A modular, dead-weight anchor fall prevention system, used with personal fall protection equipment, allows for safe freedom of movement around the roof space.



## Hierarchy of Fall Protection

### Depend on the Experts at Kee Safety

A truly comprehensive rooftop solution follows the Hierarchy of Fall Protection, the gold-standard of safety procedures. Our experts start by inspecting the roof site for potential fall hazards. From there, a complete system solution and recommendations that descend down the four levels of the hierarchy—from simple, sensible approaches for eliminating risks - all the way down to lifesaving personal protection systems.



At Kee Safety we are committed to “separating people from hazards”. We understand the problems you face when protecting people working at height and use an easy to follow Hierarchy of Fall Protection to reduce risk on the roof. Our goal is to expertly evaluate, provide a comprehensive strategy, and install a rooftop solution to successfully and safely separate people from hazards.

Collective Systems require no additional training to use. Work Restraint and Fall Arrest Systems both require a high level of user competency, training and additional inspection to be used effectively.

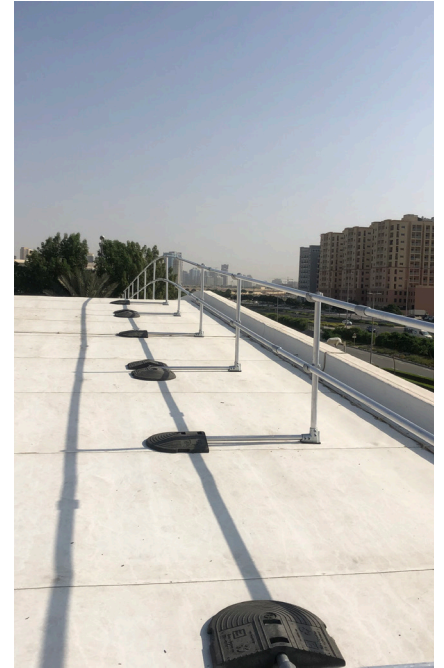


# Keep Safety Rooftop Safety Audits Make Sense

Working on rooftops is inherently dangerous and as statistics show, accidents do happen. Carrying out a thorough rooftop safety audit is the only way to ensure all hazards are identified and the appropriate measures put in place.

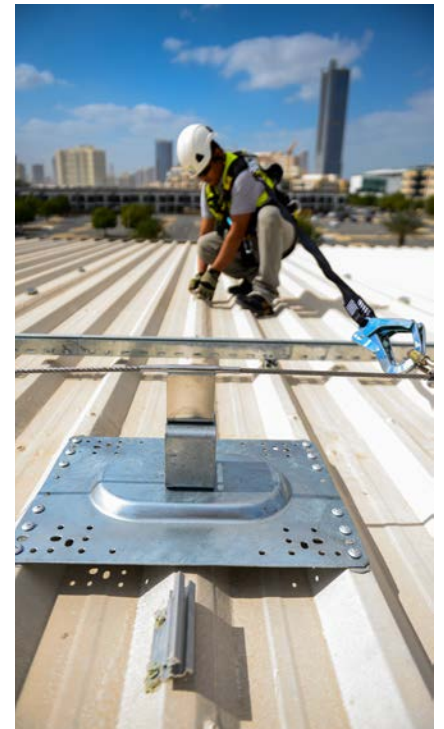
Even a basic rooftop safety audit can be complex, so if you want to make sure your assessment looks at all possibilities and identifies each potential hazard, then let Keep Safety carry out the audit for you.

When we undertake our free rooftop safety site survey, we will provide you with a detailed action plan that clearly prioritises areas we view as being critical. We can then create a customised solution that meets the exact needs of your facility along with a detailed documentation of your fall protection requirements, including budgets for you to present for approval.



# Benefits of a Keep Safety's Rooftop Safety Audit

- We provide you with a detailed action plan, prioritising the areas deemed as "critical"
- Our experts create a customised solution that fits the exact needs of your facility
- Keep Safety fully documents your fall protection requirements for presentation to your peers, upper management, or budget approval board
- Keep Safety is the only company to offer a solution-designed proposal which uses products that:
  - Will not puncture your roof, cause costly roof leaks or void your roof warranty
  - Are independently tested to meet all global standards including OSHA and EN
  - Are extremely long-lasting (20-30 year life expectancy)
  - Can be easily installed by your engineers or local contractor if preferred



# Keep Safety: Your Fall Protection Experts



Keep Safety is the leading expert and global manufacturer of safety components and fall protection systems. We are fully committed to Separating People from Hazards.

Established in 1934, Keep Safety has a proud history of engineering, manufacturing, and supplying the most trusted fall protection solutions, safety railing systems, and safe access equipment for working at height.



## Installation

You can rely on Keep Safety and our worldwide network of certified installers to ensure compliance with all major standards and regulatory requirements. Our dedicated technical service team can provide a turn-key solution including on-site analysis, professional installation, advise on project costs and manage deadlines.

**Please contact one of our qualified Fall Protection Experts to schedule a rooftop safety assessment today!**



**Keep Safety Singapore Pte Ltd**  
38 Ang Mo Kio Industrial Park 2  
#01-03, Singapore 569511

Tel: +65 6385 4166  
Email: [sgsales@keesafety.com](mailto:sgsales@keesafety.com)  
Web: [www.keesafety.sg](http://www.keesafety.sg)