



SEPARATING PEOPLE FROM HAZARDS

Safety Solutions For Data Centres



ENSURING THE CONTINUOUS RUNNING OF DATA CENTRES



Data centres are critical infrastructures and any outage could cost a company millions of dollars. They require a variety of equipment, like ventilation and cooling systems, UPS, generators and cabling, to ensure continuous operation. As most of these systems will be situated on the roof, access will be required by engineers and contractors to carry out regular inspections, maintenance and emergency repair work. This means that safe access onto and across the roof is vital.

Risks in data centre facilities

Work at height is one of the main causes of occupational fatalities and serious injuries. Employers, facilities managers, building owners, contractors and anyone else who is responsible for the premises has a duty to protect people working at height on the roof and can be held responsible if an accident occurs.

Providing a safe environment for workers accessing the roof will reduce the risk of a costly accident, increase uptime and help to reduce operational costs.

The hierarchy of fall protection

Rooftops contain all sorts of hazards. The main hazard areas, such as unprotected roof edges and obstacles on data centre rooftops, should be regularly reviewed to ensure work at height can be carried out safely.

Following the hierarchy of fall protection is the best way to ensure the safety of workers on data centre rooftops.



Hierarchy of Fall Protection

- ★★★★★ 1. Eliminate the Hazards
- ★★★★ 2. **Collective Fall Protection**
- ★★★ 3. Work Restraint
- ★ 4. Personal Fall Arrest System

- **Non-penetrating systems - no roof leaks**
- **Counterbalance engineering for maximum strength**
- **No welding, bending, or threading of tube - fast and simple installation on site**
- **Suits phased works - additional phases can be added and connected later**
- **Delivers reliable collective fall protection**
- **Design and meets the relevant Canadian standards**

NON-PENETRATING RELIABLE SAFETY SYSTEMS

Free standing rooftop guardrails

Edge protection, such as guardrails, is the preferred option for unprotected edges as they safeguard workers on the roof at all times and avoid the need for training.

The main benefit for data centres is that our Kee Guard® roof guardrails can be free standing, which means they simply sit on the roof and don't require fixing through the roof's membrane. This can compromise the roof's integrity and cause costly leakages and dust problems for the sensitive areas below the roof.



Step overs

Rooftops contain a variety of trip hazards. M&E equipment and obstacles such as pipework, cable trays and conduits can make a simple maintenance task dangerous if the worker has to navigate around or over these hazards. Kee Step® is a simple, but effective, way to provide a safe route over an obstacle. As with the free standing guardrail systems, our step-overs can sit securely on the roof without the need to penetrate the roof membrane.



Access platforms

Platforms provides a safe route to a different roof level. Kee Platform® is flexible, durable and effectively protects workers from the hazards of slipping and falling when working at height. Kee Platform is designed to your specific situation and complies with the relevant Canadian standards. As with the free standing guardrail systems, our access platforms can sit securely on the roof without the need to penetrate the roof membrane.



Bespoke safety solutions

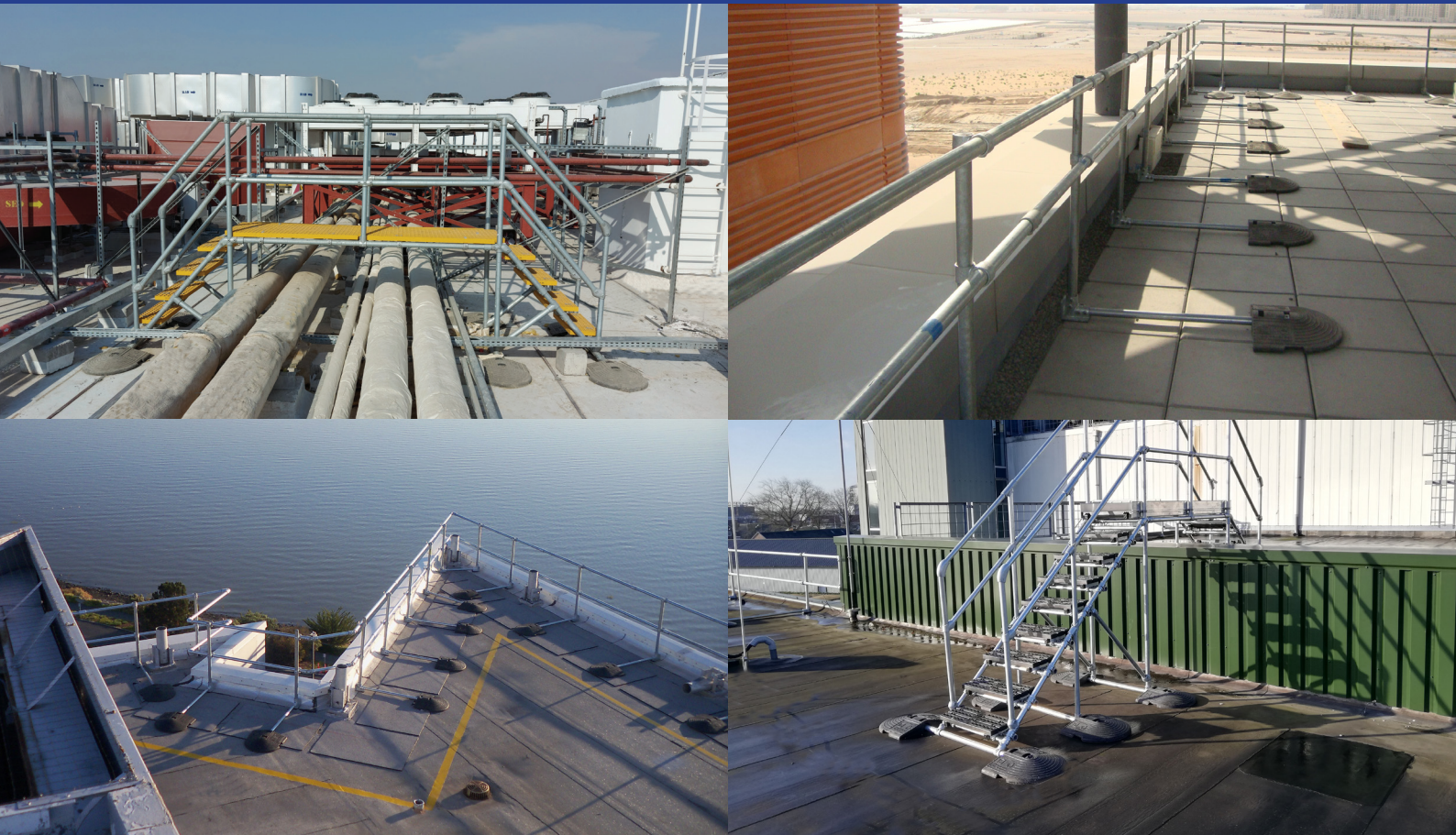
Data centre facilities contain complex networks of ducts and trays that can quickly rule out a standard solution. Kee Safety products are made from modular components which can be combined to eliminate fall hazards and access issues in even the most complicated environments. Our engineering team can develop a solution to ensure the safety of your workforce.



Kee Safety: Your fall protection experts

Kee Safety is the leading expert and global provider of safety equipment and fall protection systems. We offer our customers a complete service from site surveys and technical advice, through to design and installation.

Please contact one of our qualified Fall Protection Experts to discuss your project or schedule a roof top survey.



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