



PROVIDING SAFETY SOLUTIONS WORLD WIDE

# Fall Protection Solutions



- **KEE® GUARD** – THE SAFETY SOLUTION FOR FREE STANDING ROOF TOP FALL PROTECTION
- **KEE® DOME** – THE SAFETY SOLUTION FOR SKYLIGHT FALL PROTECTION
- **KEE® ANCHOR** – THE SAFETY SOLUTION FOR PERSONAL FALL PROTECTION



FM36179

## Why you need KEEGUARD®

At **Kee Safety** we are passionate about preventing accidents and protecting people. We believe everybody has the right to a safe working environment and nobody should be asked to compromise their personal safety.

As leading suppliers of Roof Edge Protection Systems we know that not everybody shares our vision. The Working at Heights directive 2005 is in place but many building owners are simply not aware of their obligations or have decided not to prioritise the work they are required to carry out.

This means that whenever employees are working on a roof they may well be exposed to unnecessary risks and may be forced to compromise their personal safety in order to complete a job.

If an accident happened, are you aware of the legal responsibilities you face?

By using a correctly installed and tested **KEE GUARD** system you can ensure the health and safety of anybody who goes onto a flat roof. **KEE GUARD** is a modular free standing system that has been fully tested and approved which does not penetrate the roof membrane.



**KEE GUARD** is supplied in prefabricated kit form with a minimum number of assemblies which allows for ease of installation. It is a safe, versatile system which delivers reliable collective safety.

## Setting the Standards

**KEE GUARD**, when correctly designed and installed, will meet or exceed the following safety requirements:

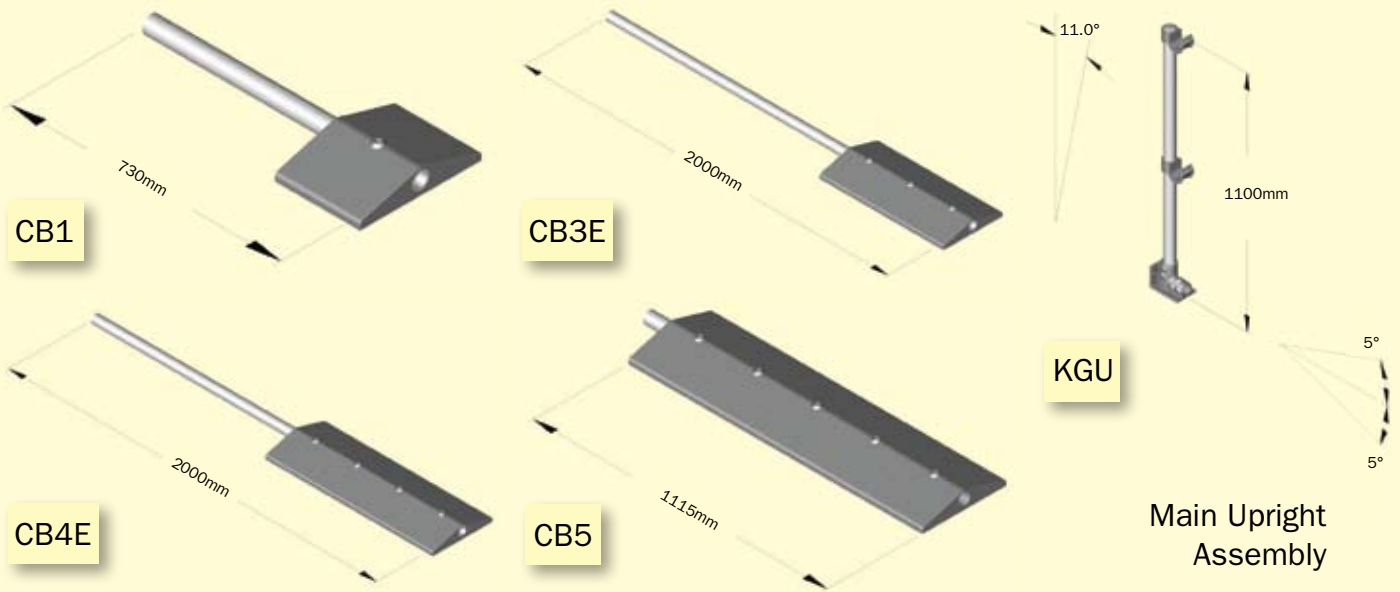
- EN ISO 14122 Part 3
- EN 13374 Class A
- HSG-33 Health & Safety in Roof Work
- HSE INDG 284 "Working on roofs"
- BS 6399: Part 2 1995 Wind Code
- HSE S.I. Report No. 15 (out of print).

## Flexibility and Custom Solutions

The **KEE GUARD** system offers maximum flexibility for most roof top configurations. Almost any flat or low slope roof up to 3 degrees can be accommodated. Each **KEE GUARD** installation is engineered to provide a fully compliant solution even when multi-level roofs are involved and can be adapted to varying angular and/or circular configurations. Additionally, an installation can be customised to cope with ladder access, rooftop equipment and any other fixed rooftop obstructions.



## Typical KeeGuard® Assembly

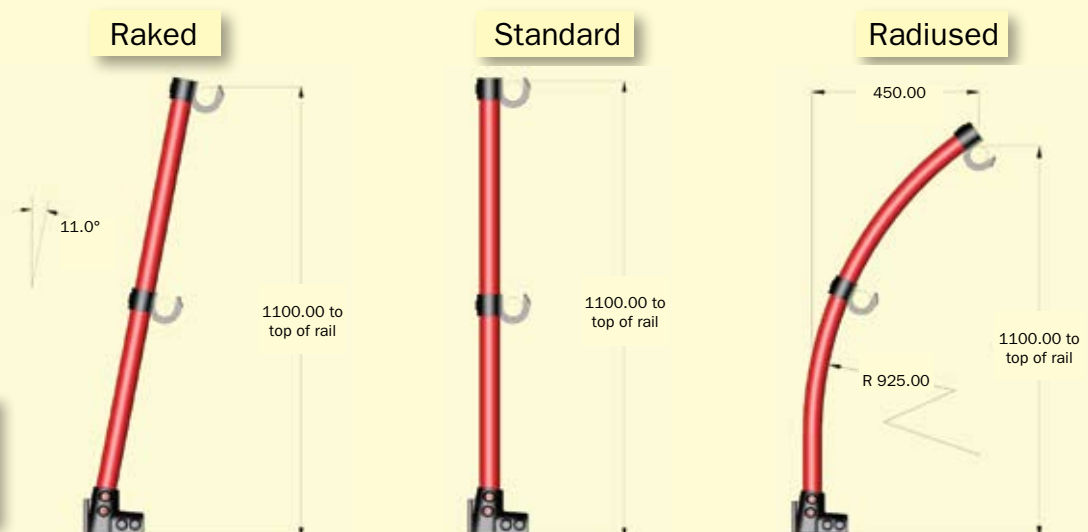


The CB5 assembly should be used for end uprights when there is no tie into the building and at the end of a run that exceeds 6 metres in length. For runs less than 6 metres please contact the **KEE GUARD** Technical Team on **0118 931 1022** for advice.

Please Note: all assemblies are supplied complete with pyramid sectioned rubber pads for anti-slip protection.

## KeeGuard® Options

- Choice of three typical styles of upright shown below
- D Return on end upright
- The system can be supplied Colour Coated to any RAL colour of your choice
- KGA200 coverstrip for counter balance weights, to reduce trip hazard.



Ensures full contact with roof

## Ke Klamp® Fittings

15-8



14-8



BC53-8



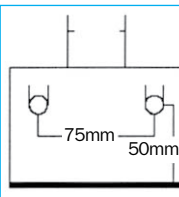
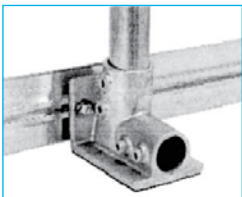
61-8



77-8



KGA200 Coverstrip



Toeboard  
Attachment  
Fixing Detail

Ke Klamp® fittings allow building of basic KeeGuard® configurations and allow custom rooftop solutions. **Ke Klamp® Type 15-8 Elbow** is used for D Returns and 90 degree corners. **Type 14-8**

**Straight Coupling** is used to connect lengths of pipe. **Type BC53-88** can be used for variable angles and also to accommodate slope irregularities. **Type 61-8 Flange** is used for wall attachments. **Type 77-8 Plastic Plug** is used to cap open pipe ends.

## Terminating The Run

15-8



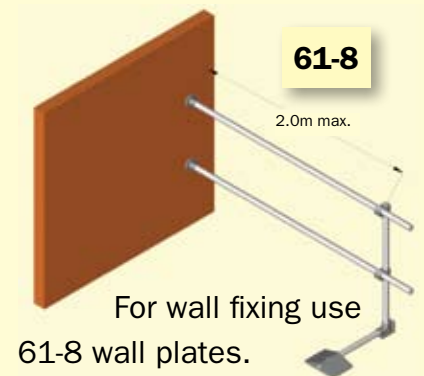
On returns of 500mm or less use two Kee Klamp 15-8 fittings to make a D return.

If you are using a CB5 to terminate the run you must allow for 2 x 77-8 fittings to blank off upright rail ends.

77-8



61-8



For wall fixing use 61-8 wall plates.

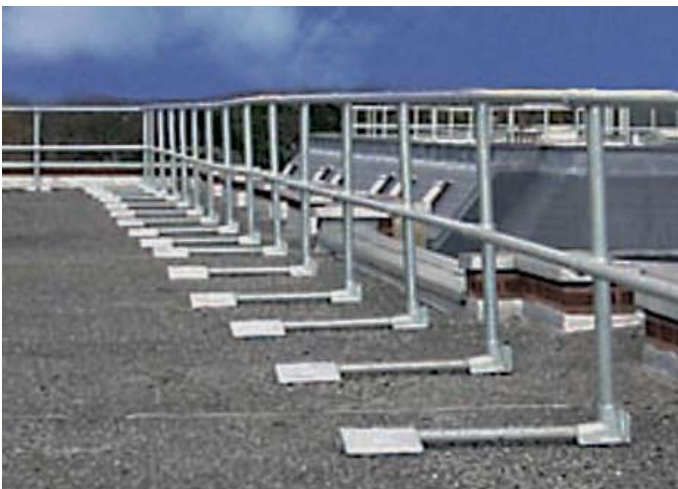
## Health & Safety Compliance

### Slippery and Wet Conditions

In a situation where a free-end is to be positioned within 2 metres of a fall hazard, there being no parapet wall or other construction which would act as a secondary constraint upon slippage and there being no other reasonable means of providing a structural tie to the free-end, then the free-end construction must be configured using the counter balance assemblies CB3E and CB4E, to avoid the possibility of slippage under wet conditions. Kee Safety advises that KeeGuard should not be installed during snowy or icy weather unless all snow and ice is cleared first. Great care must be taken and extra personal protection provided if roofs and other elevated areas are to be accessed during conditions of high wind, ice or snow whether or not edge-protection is provided.

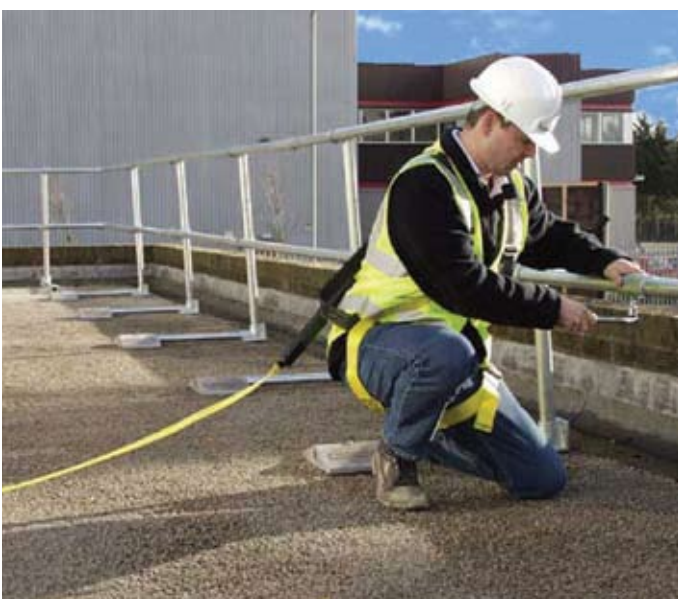
## KEEGUARD® for Safety and Versatility

- Assemblies are fitted with anti-slip pads
- System works on a proven counterbalance system
- Integral toeboard fixings
- **KEE GUARD** assemblies use **KEE KLAMP** fittings which are TÜV tested and approved
- Suitable for use on concrete, asphalt, PVC membrane and felt roof surfaces.



- Modular design allows reconfiguration on site if needed
- Sections can be added to or taken down, for reconstruction elsewhere
- Compatible with almost all configurations of flat roofs up to 3 degrees slope.

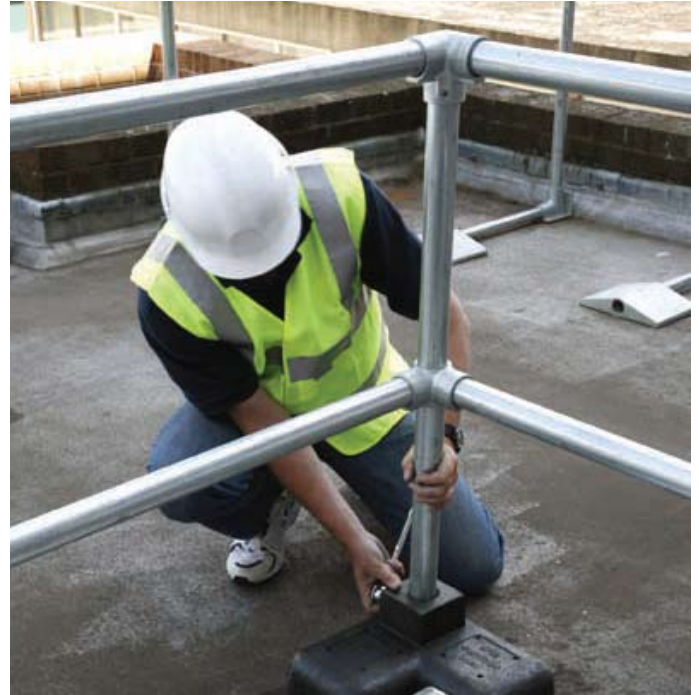
## KEEGUARD® for Durability and Simplicity



- All fittings are galvanised to EN ISO 1461
- Fittings use case hardened steel set screws with **KEE KOAT** protection.

- Unique open style fitting allows quick installation of horizontal rails
- Minimum components for ease of installation
- Three types of upright available
- No penetration of the roof membrane
- No welding, threading or bolting required on site.

**KEE DOME** is a modular system designed specifically to prevent falls through skylights. Sturdy recycled PVC bases lock the posts into position around the corners of a skylight and **KEE KLAMP** fittings and tube are used to construct a rigid frame.



**KEE DOME** offers reassuring collective safety for anyone required to access a roof containing glazed areas and can be erected quickly and easily. Although **KEE DOME** is designed as a permanent solution, it can be dismantled and re-erected elsewhere.



The **KEE DOME** structure is safety compliant, remains completely free-standing and eliminates the risk of damage to the roof membrane. The main features of **KEE DOME** are:

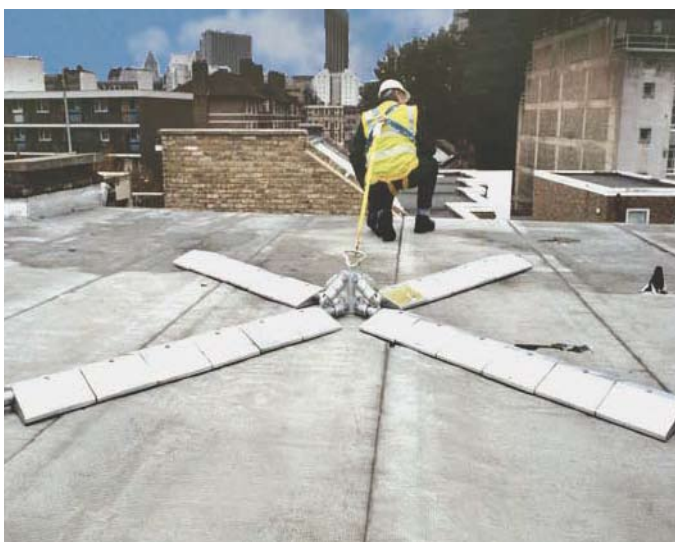
- Modular system using standard components
- Recycled PVC feet
- Complies with EN 14122 pt3
- Suitable for use on all roof surfaces with a maximum pitch of 3°
- Joints made of galvanised cast iron to BS EN ISO 1461
- Available in any RAL colour if required.

## The Safety Solution for Personal Fall Protection

Kee  
Anchor

**KEE ANCHOR** is a convenient personal safety solution in situations where collective safety barrier systems are not available.

Easy to construct, the man anchor provides a fixing point to which Personal Protection Equipment can be attached, thus allowing safe freedom of access around a roof space. Tube is attached and locked onto the central fixing device using case hardened grub screws; then weights are slipped onto the tubes and locked in place to ensure the anchor is secure. For additional grip each weight also has a non-slip base that does not damage the roof membrane.



The **KEE ANCHOR** system can be used on roofs with a slope of up to 5°. The main features of **KEE ANCHOR** are:

- Independently tested by Apave (CE 0082)
- Made of galvanised cast iron to BS EN ISO 1461
- Does not penetrate the roof membrane
- Designed for easy assembly on site
- Weights are fitted with anti-slip rubber pads
- Fitted with **KEE KOAT** corrosion protected grub screws and Thread Coat® recess protection
- Conforms to the PPE (Personal Protection Equipment) guidelines 89/686/EEC
- Tested to conform to NF EN795:1996/ Amendment A1:December 2000 (equivalent to pr EN 795:2003 class E), BS 7883 class E and ISO 14567.

# Roof Edge Fall Protection Photo Gallery



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