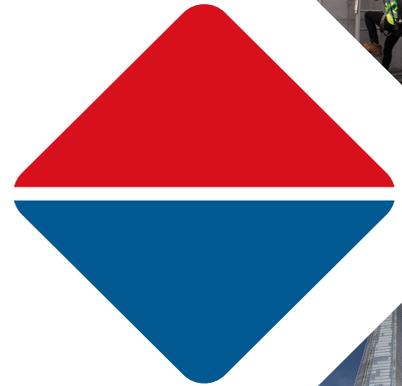


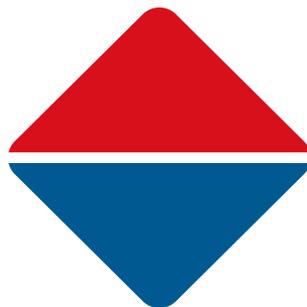


**eurosafesolutions®**

Technical Data Sheet



# RoofCo:- Freestanding Guardrail



# Specification

## Freestanding Edge Protection - System Specification

### General Description

Our freestanding edge protection system is a cantilevered guardrail system that does not require any mechanical fixing into the roof surface. This system has been designed and manufactured to fully comply with current H.S.E regulations.

### Material

The main and intermediate uprights are fabricated from 2mm hot dipped galvanised steel equivalent to BS EN ISO 1461, with the upper and lower cross rails manufactured from 1.5mm x 48.3mm external diameter galvanised steel.

The rubber counterweight is manufactured from 100% recycled PVC compound with the fixing screws manufactured from zinc-coated steel.

### Safety Standards

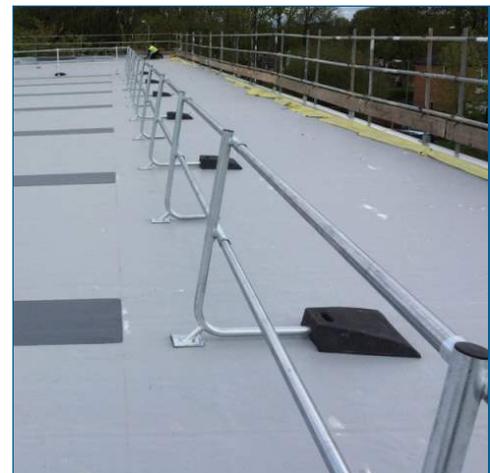
Our freestanding guardrail is designed in accordance with and/or tested to the following safety standards:

- HSG-33 Health and safety in roof work.
- HSE INDG 284 "Working on roofs".
- EN ISO 14122 Part 3.
- EN 13374-2013 Class A.
- BS 6399: Part 2 1995 Wind Code.

### Test Procedure

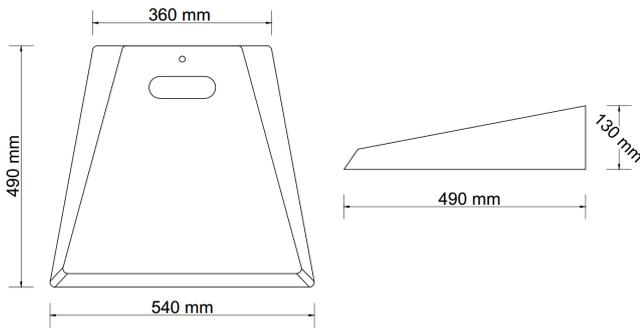
Our freestanding guardrail has been tested to EN ISO 13374-2013 Class A by Satra Technology Ltd

- All testing was carried out on a bituminous mineral roof felt and single ply membranes in both wet and dry conditions.
- All testing was carried out on a standard 5m run of guardrail.
- A 0.3kN load was applied to the top and middle rail at the end of a 5m run without moving more than 55mm at the base
- A 1.2kN load was applied to the top and middle rail between the uprights, the tube deflection did not exceed 300mm.
- The testing was carried out on four independent samples.



# Components

## Freestanding Edge Protection - System Components

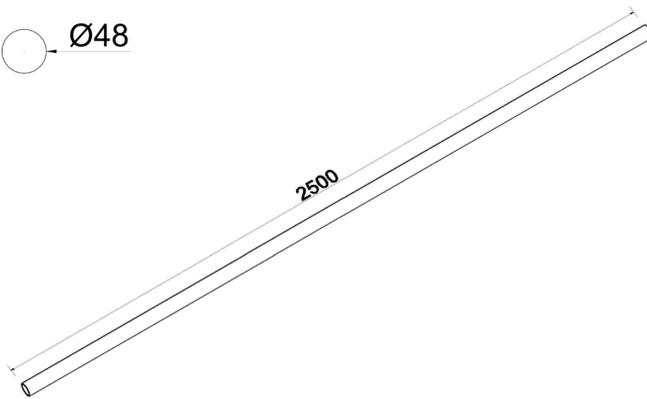
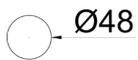


### **CW20 - 20kg Counterweight**

The weight is designed to be attached to each of the main uprights, and is fixed in place with a small zinc coated grub screw which provides the necessary counterbalance weight to prevent the system from being moved.

#### Materials

The 20kg weight is manufactured from 100% recycled PVC compound.

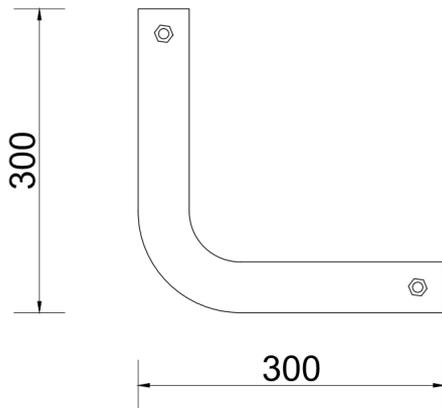
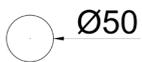


### **CR2.5 - 2.5m Cross Rail**

The main cross rail is supplied pre-cut to 2.50m in length for ease of installation. This fixed length means there is no need to measure or cut the tubes to ensure the uprights are spaced evenly.

#### Materials

The lightweight main rail is manufactured from 1.5mm light gauge steel making it easy to cut and transport. It is galvanised coated to BS EN ISO 1461 and is also available powder coated to any RAL colour.

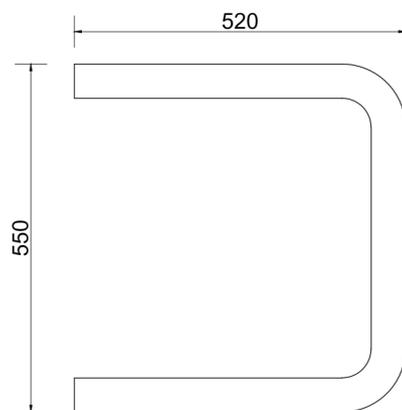
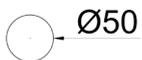


### **SC90 - 90° Swept Bend**

The SC90 is an ergonomically designed 90° swept bend. This flexible pre-formed component can be used for both horizontal and vertical bends. The fitting incorporates zinc coated grub screws for easy installation.

#### Materials

The swept bend is manufactured from 2mm x 48.30mm steel tube, which has a hot dipped galvanised coating. It is also available powder coated to any RAL colour.



### **DE180 - D-End Termination**

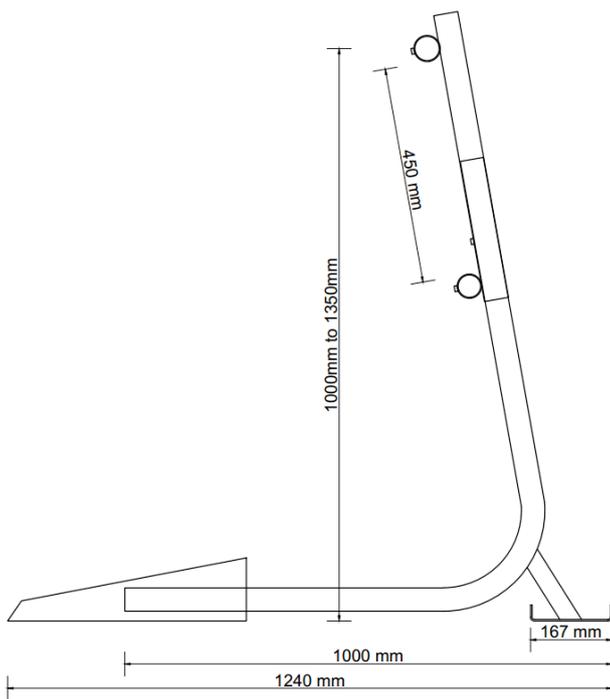
The pre-formed 180° bend inserts into the top riser and is a quick and convenient way of terminating a run of guardrail. This flexible pre-formed component can be used for both horizontal and vertical terminations.

#### Materials

The 'D' end's are manufactured from 2mm steel and is galvanised coated equivalent to BS EN ISO 1461. These are also available powder coated to any RAL colour.

# Fixing Details

## RoofCo:- Freestanding Guardrail



### **MSUP - Main Support Upright**

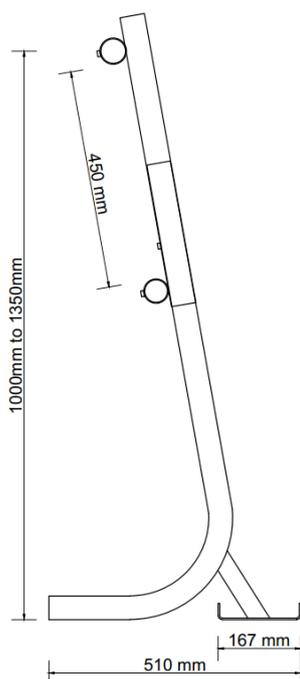
The main upright sits on the roof and has a 20kg counterbalance weight attached, and the adjustable top riser unit.

The foot of the upright which rests on the roof is protected by a rubber isolation pad. By loosening the fixing screws in the body of the top riser, the unit can be moved up and down the main upright to adjust the height of the top and middle rails or to raise and lower the main upright.

### Materials

The main upright is manufactured from 2mm x 48.30mm steel tube, which has a hot dipped galvanised coating. It is also available powder coated to any RAL colour.

**Please note:** The main upright shown here has a counterweight attached to help give the full dimensions when installed. The counterweight is sold separately.



### **ISUP - Intermediate Support Upright**

The intermediate upright is a shortened version of the main upright and is designed to be installed un-weighted as an intermediate support. Just as with the long upright, this component consists of two separate components but is delivered pre-assembled ready to install.

The intermediate upright also features the protective rubber pad to isolate the foot from the roof membrane.

### Materials

The intermediate upright is manufactured from 2mm x 48.30mm steel tube, which has a hot dipped galvanised coating. It is also available powder coated to any RAL colour.