



S&S

Safetyworks & Solutions Ltd

Edge Protection Data Sheet

Freestanding Guardrails

Testing & Accreditation

The system was first designed, manufactured and tested in 1999 to the then standard of HSE/SR September 1984 (HSE/SR,1984) requiring loads of 0.74kN.

The system is still manufactured and installed to the old standard - (HSE/SR,1984) and also complies with and **exceeds** EN13374 class A and EN13700.



Our recommendations are that all systems should exceed EN13374 class A and EN13700 with minimal loads of 34kN being the required standard.

EN13374 class A states that the system should at least withstand "People leaning against it"; no we feel that this insufficient for leading edge protection.



A wide variety of free standing handrail are produced throughout Safetyworks. These include straight, folding, half folding curved and cranked to suit the needs and purposes of the user.

Standing at a minimum of 1100mm above the roof finish, the free standing handrail provides collective protection against fall from heights.

The non-penetrative base plate system with a high performance bonded ribbed rubber mat protects the roof damage.

Adjustable.

The base plate and spigot provide up too 250mm of vertical adjustment; the system is therefore easily adaptable for use on Green roofs and tapered insulation schemes where the horizontal rail is levelled to suit the up-stand of the building or the rail requires lifting to maintain the top rail at 1100mm above Green or ballasted roofs.



Freestanding Guardrails



Free Standing Handrail - Counterweight

Dimensions: H Min-1100mm, Max-1350 ,W150mm, L960mm D15mm

Counterweight: H Min-1100mm, Max- 1350, w150mm L1200mm D15mm

Weight: (Inc. Base, Leg, 2xCrossovers) 26kg

Material: Steel

Finish: Galvanise BS/EN 1416, Powder Coat (Specified Rail Number), Available Over Galvanised Steel(Specified Rail Number)



Half Folding Handrail

Dimensions: H Straight-1100mm Folded-624mm ,W150mm, L960mm

Weight: (Inc. Base, Top half of leg, 2xCrossovers, Adjustable sleeve)

Material: Steel

Finish: Galvanise BS/EN 1416, Powder Coat, Available Over Galvanised Steel(Specified Rail Number) (Specified Rail Number)



Full Folding Handrail - Double Base Mid Span at 4M Centres

Dimensions: H Straight-1100mm Folded-624mm ,W150mm, L960mm

Weight: (Inc. Base, Top half of leg, 2xCrossovers, Adjustable sleeve)

Material: Steel

Finish: Galvanise BS/EN 1416, Powder Coat, Available Over Galvanised Steel(Specified Rail Number)



Curved Handrail

Dimensions: H Straight-1072mm Folded-624mm ,W150mm, L960mm

Weight: (Inc. Base, Top half of leg, 2xCrossovers, Adjustable sleeve)

Material: Steel

Finish: Galvanise BS/EN 1416, Powder Coat (Specified Rail Number)

Freestanding Guardrails



Rubber Mats

Material: Natural Elastomer

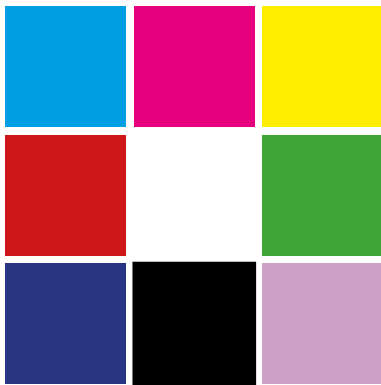
Size: W150, L960

Colour: Black

Tensile Strength: 6MPa

Tear Strength: 12KG/CM

Operating Temperature: -20°C - +70°C



Polyester Powder Coat Finish

All guardrail products can be finished in polyester powder coat (PPC). All that is needed is the RAL colour number . The PPC is sprayed on top of the galvanised finish to help protect the steel.

During installation the paint may become damaged or chipped, this is sorted out through the use of touch up paint that is made to the same RAL colour code.

Freestanding Guardrails

Fittings

All fittings are supplied by Interclamp and have a 48mm inside diameter to fit the tube used to complete the handrail. The fittings are die-cast and come with stainless steel grub screws for tightening.



Adjustable Knuckle 166
Weight: 1.44kg



Sleeve 149
Weight: 0.59



Short Tee 101
Weight: 0.55kg



Elbow 125
Weight: 0.7kg



Long Tee 104
Weight: 1.05kg



Two Socket Cross Over 119
Weight: 0.79kg



Wall Plate 131
Weight: 0.92kg



Heavy Duty Side Support 245
Weight: 1.32kg



Retro Fit Clamp 135
Weight:



Horizontal Railing Base
Weight: 1.23kg



Horizontal Railing Base
Weight: 1.32kg



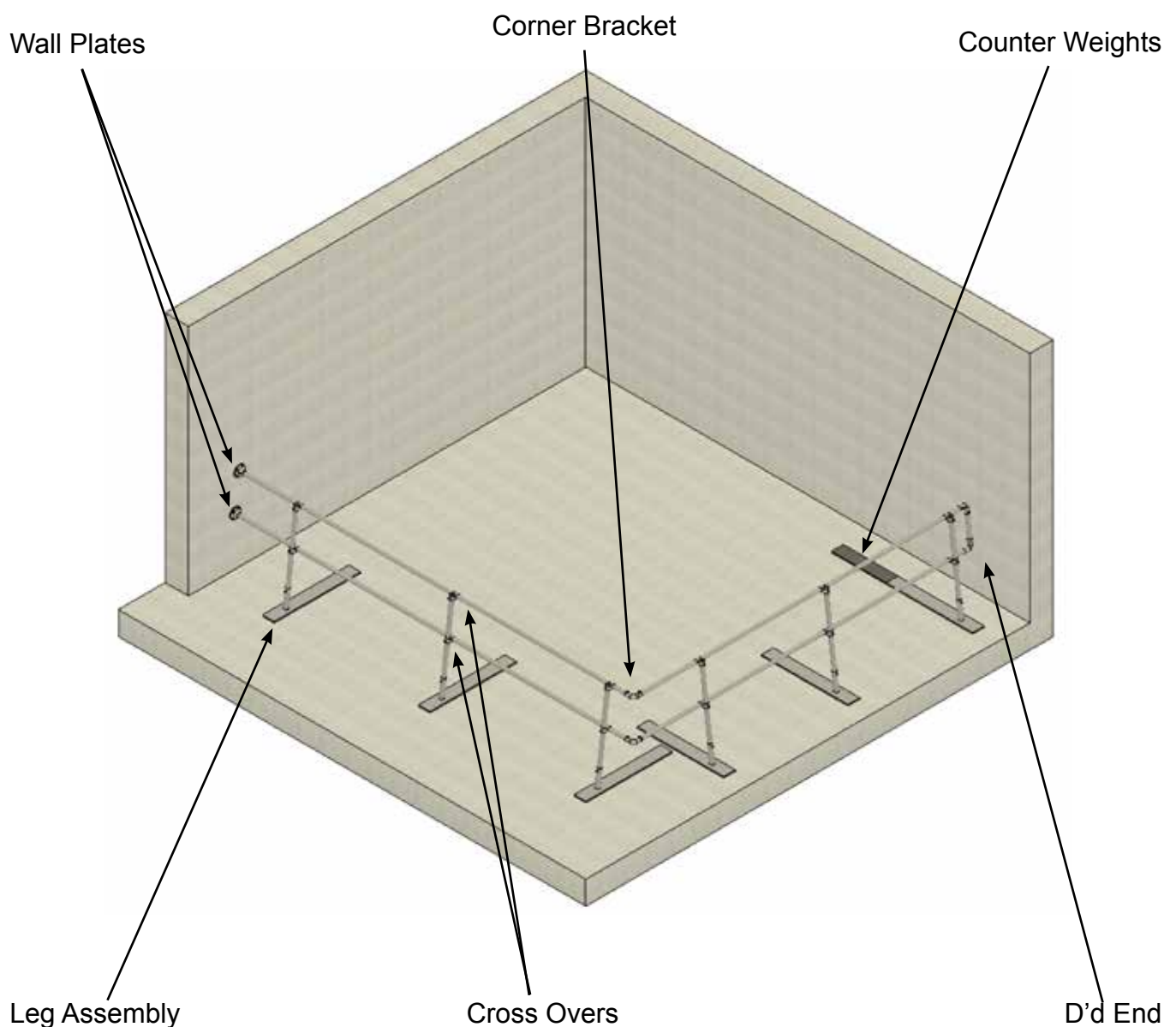
Cross over 161
Weight: 0.57kg

Freestanding Guardrails

Simple Freestanding Guardrails

Freestanding guardrails are spaced at two meters to provide the strength needed to meet the old standard HSE/SR 1984 which exceeds the new standard of today.

Freestanding guardrail is ideally fixed to a wall surface through the use of wall plates but where this is not possible counter weights can be used at either end to securely hold the freestanding guardrail on the roof. Where counter weights are used the ends will need to be rounded off to secure the area in question.

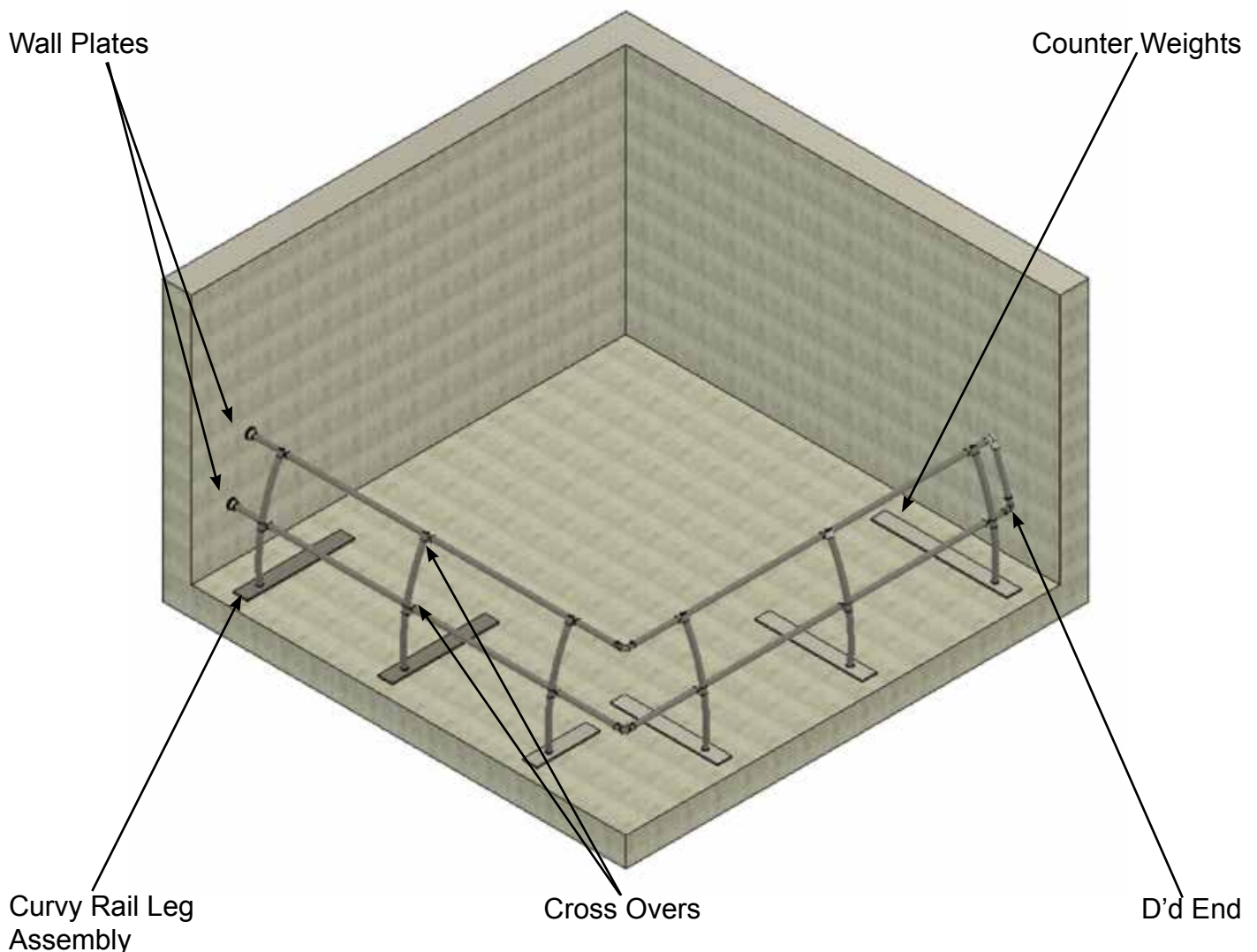


Freestanding Guardrails

Curvy Guard

A more aesthetic version of the traditional freestanding handrail curvy guard is a well suited method of edge protection for an area that is more likely to be seen on a regular basis.

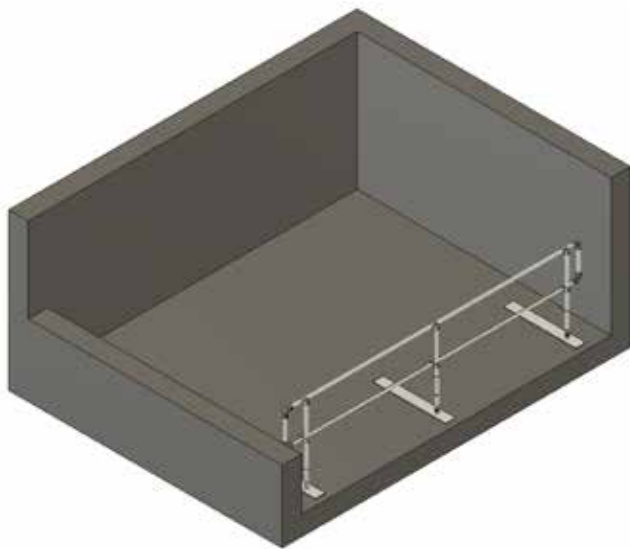
Standing at a minimum of 1072mm the Curvy Guard Freestanding Guardrail meets the old EU standard of HSE/SR 1984 which has higher safety features than that of today's standards. The system is secured to the roof through the use of wall brackets to give a secure hold. Where it is not possible to place in wall brackets counter weight will be used in place.



Freestanding Guardrails

Folding Freestanding Guardrails

Folding freestanding guardrails offer a discrete method of protecting the edge of your roof, folding up off the ground they reach the height of 1100mm. The simple to use spigot and handle mean that erecting the hand rail is simple and quick.



Lift up the leg of the guardrail to a 90° angle



Adjust the sleeve to the top of the base plate



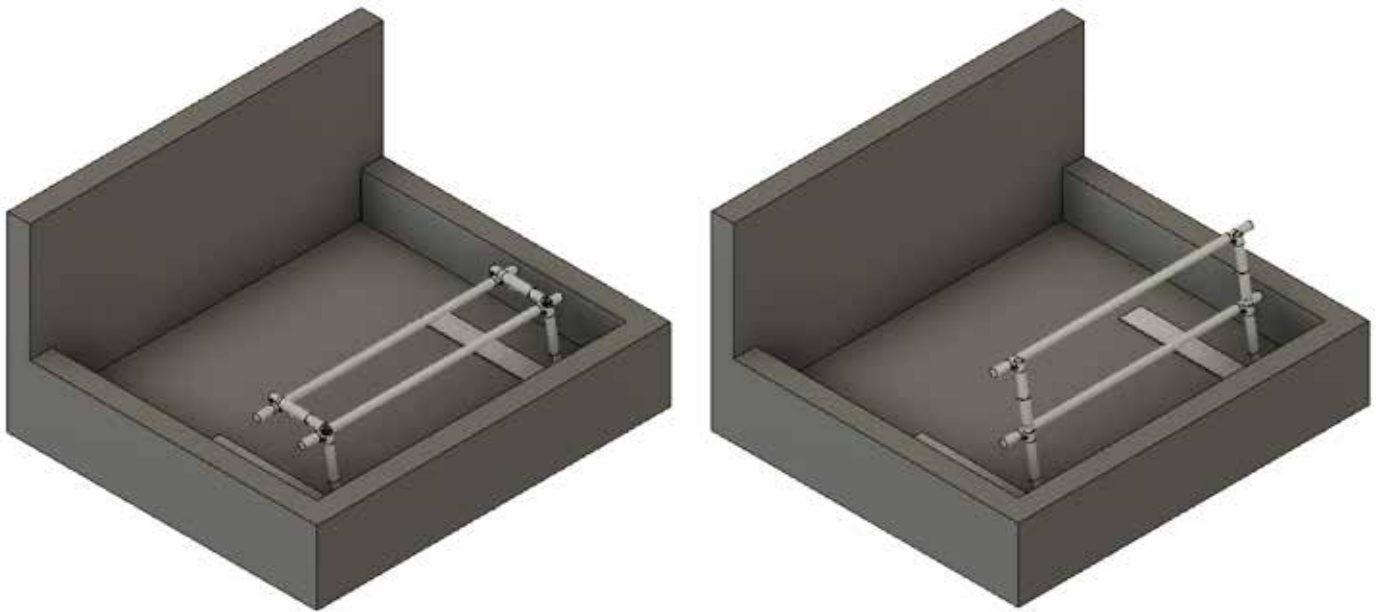
Tighten up the grub screw to secure into place

Freestanding Guardrails

Half Folding Freestanding Guardrails

Half Folding Freestanding Guardrail provides a simple and discrete method of providing fall protection. The specially designed hinge allows the user to easily erect the guardrail through the use of a single sleeve and bolt.

When folded the guardrail becomes very low profile from ground level.



Lift up the guardrail to furthest point



Pull down sleeve to so that it connects onto the lower section of the guardrail



Tighten up the grub screw to lock the top of the folding handrail into place

Freestanding Guardrail

Self-Closing Hatch Protection

The self-closing hatch protection system is put in place to stop operatives from falling through open hatches whilst they are in use. Using a spring system the gate will remain shut unless pushed open. This provides a secure area that cannot be entered unless you are to go through the gate.

The base plate system allows for installation without any penetration of the roofs surface. This removes the chance of damage being caused to the roof which could cause leaking.

