

## SAFECLAMP® FIBREGLASS MODULAR HANDRAIL SYSTEM



Safeclamp® is a modern composite alternative to conventional galvanised Key-clamp style handrail systems. Manufactured from Glass-Reinforced Plastic (GRP)

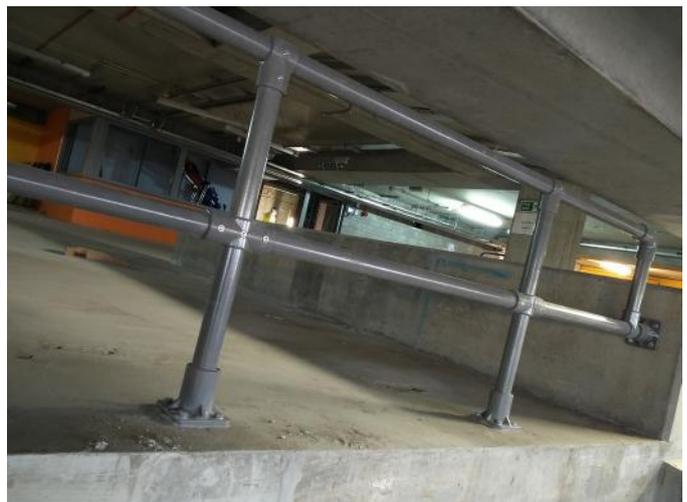
The Safeclamp® modular system is based on a 50mm Diameter Pultruded tube, 5mm thick for real strength and toughness and joined together by a range of specifically designed GRP moulded fittings to create the complete handrail system.

The Fibreglass tube can be quickly cut to length on-site to make the stanchion, handrail and mid-rails with the matched pairs of moulded fittings clamping around the tube to complete all the joints.

The fittings are mechanically fixed to the tube with an A2 Socket-head bolt & Blind Riv-Nut. This special nut and bolt combination ensures that both the bolt head and the nut are recessed within the moulded fitting retaining the smooth surface for safe uninterrupted hand hold and no snagging on clothing.

For additional security the fittings can also be adhesive bonded using single or two pack adhesives.

Safeclamp® is available in yellow colour as standard. Grey is available upon request.



### BENEFITS

- ✓ Lightweight
- ✓ Easy to install
- ✓ BS Compliant (BS7818:1995)
- ✓ Durable
- ✓ Corrosion resistant
- ✓ Colourfast
- ✓ Warm to touch
- ✓ Non-Conductive

## SAFECLAMP® FIBREGLASS MODULAR HANDRAIL SYSTEM

### MATERIAL CHARACTERISTICS



#### Quality Assurance

Manufactured in accordance with our ISO 9001 accredited Quality Management System, the structural integrity of the specified material is high grade. A suggested life span of 25 years is expected, but not guaranteed, and is based on a number of variables: environmental, installation process, maintenance, loading and traffic conditions.



#### Chemical Resistance

GRP is resistant to a wide range of chemicals, across a wide temperature spectrum. GRP can be made using different resin systems to achieve specific chemical resistant properties. Please refer to chemical resistance chart SOS-DST-10.



#### British Standard Conformance

Safeclamp® handrail has been tested & successfully complied with the deflection and recovery requirements of BS 7818: 1995 Class 2A. A copy of our test certificate is available upon request.



#### Fire Resistance

All products contain a fire resistant additive and comply with Euro Class 1 and ISO11952-2. Performance is equivalent to ASTM E84 class 1 and BS476 part 7 class 2 flame spread to give a 30 minute burn time.



#### Light Weight and Durable.

Easy to carry onto difficult to access locations. Safeclamp® is exceptionally durable, and has the ability to withstand impact, reducing the risk of permanent buckling and deformation. Safeclamp® is around 60% lighter than an equivalent galvanised steel handrail tube.



#### Colourfast

All Safeclamp® components are pigmented throughout during manufacture, and do not require any secondary treatment such as powder coating or paint spraying. Any surface scratches are less visible, and any surface damage is easily repairable. Our standard Stock Colour is Safety Yellow, although "Steel Grey" is available upon request.



#### UV Stable

All Safeclamp® components are manufactured with a high quality UV inhibitor to prevent colour, or material degradation.

### FOR MORE INFO

Call: 01206 322 899

Email: [sales@deck-safe.co.uk](mailto:sales@deck-safe.co.uk)

Visit: [www.decksafe.co.uk](http://www.decksafe.co.uk)

V3-25.01.2019

## SAFECLAMP® FIBREGLASS MODULAR HANDRAIL SYSTEM



**3 Way Corner  
SC-CR-3W-90-YE**

90° corner fitting, often used where top rail meets corner upright on level sites. Often paired with type SC5.



**3 Way Long T Piece  
SC-LT-3W-90-YE**

90° joint, often used to join intermediate uprights to top rails on level sites. This fitting can be used where through tube (horizontal in photo) has to be joined within the fitting. Where such a joint is not required, SC1 can often be used as an alternative.



**3 Way T Connection  
SC-CN-3W-90-YE**

90° butt joint, often used to join intermediate uprights to top rails and middle rails to end uprights on level sites. This fitting cannot be used where through tube (horizontal in photo) has to be joined within the fitting



**4 Way Connection  
SC-CN-4W-90-YE**

90° joint, often used between mid-rail and uprights on level sites and often paired with type SC3 or SC2. The through tube (vertical in photo) cannot be joined within the fitting



**4 Way Corner  
SC-CR-4W-90-YE**

90° corner joint, often used on middle rail on level sites and often paired with a 3-way Corner (SC1)



**90 Degree Elbow  
SC-EB-2W-90-YE**

90° angle fitting, often used where top rail meets end upright on level sites or for 90-degree corners



**Pedestal  
SC-EB-2W-90-YE**

Base flange, usually used for uprights on level sites. 12mm Diameter Fixing holes suit a wide range of common mechanical and chemical masonry, which are available upon request.



**Sidemount Bracket  
SC-BK-SM-YE**

A side-mount fitting, often used to attach guardrail uprights to walls, staircases and ramps.

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**4 Way Universal Joint  
SC-UJ-4W-YE**

A versatile swivel fitting, useful for awkward applications where angles cannot be accommodated by angle fittings. The through-tube cannot be joined within the fitting.



**Universal 3 Way  
SC-UJ-3W-YE**

A versatile swivel fitting, useful for awkward applications where angles cannot be accommodated by adjustable angle fittings.



**Universal Joint  
SC-UJ-2W-YE**

A versatile fitting, often used where a horizontal rail is joined to a sloping section



**Safeclamp Tube  
SC-RT-50-50-05-YE**

A FRP / GRP 50mm O/D Tube, with 5mm wall thickness. Ideal for Top Rail, Mid-Rail or Stanchions



**Kickplate  
PR-KP-150-15-03-YE**

A GRP toe board profile. 150mm High by 15mm thick.



**Safeclamp Bolt Set**

A M6 x 60mm A2 Stainless Steel Socket button head bolt, and Blind Riv Nut. Our recommended fixing.

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# DATASHEET DS-DSP-03



## SAFECLAMP® FIBREGLASS MODULAR HANDRAIL SYSTEM

### Related Products



Self-Closing Gates



GRP Grating



GRP Palisade Fencing



Cat Ladders

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