

# Shorguard<sup>TM</sup> SG4 FLAT ROOF GUARDRAIL SYSTEM

The professionally designed safe and secure freestanding system for Flat Roof applications where no physical connection is possible



*The SG4 unique patented lifting shoe allows freedom to work under the post without having to remove any part of the guardrail system, thereby maintaining safety at all times.*



**PROTECT LIVES - FIT SHORGUARD**

**UNIQUE  
LIFTING  
SHOE**

# SHORGUARD SG4 GUARDRAIL SYSTEM

The professionally designed safe and secure freestanding system for Flat Roof Applications where no physical connection is possible.

The Shorguard SG4 System design reduces the need for external access scaffold during roof maintenance or refurbishment thereby avoiding additional extra labour, materials and handling costs.

## Shorguard SG4 – Key Benefits



- ✓ Only four basic components.
- ✓ Suitable for permanent and/or temporary installations.
- ✓ Patented lifting shoe to allow roof surfaces to be re-dressed without the need to dismantle the guardrail.
- ✓ Angled configuration for aesthetically pleasing and stable application.
- ✓ The SG4 System can accommodate toe boards as and when required.
- ✓ Free site surveys undertaken.
- ✓ Designed to minimise trip hazards. No need for counterweights or coverstrips.
- ✓ Radius work is possible without bending the tube.
- ✓ Fully galvanised.
- ✓ A range of complementary safety equipment.
- ✓ Simple, Safe, Secure and Maintenance Free.
- ✓ Design and Installation service.

It is essential with any guardrail system to check the loading to the roof structure and membrane.

Shorguard SG4 offers two types of Post to Guardrail connection, giving architects/specifiers a choice depending on aesthetic requirements. The system can be used safely for radius work without the need to bend the tube.



### 90° Crossover Clamp Connection

This method uses cast clamps for fixing handrail tubes to vertical posts. The system can be used safely on metal profiled sheeting.



### In Line 'T' Connection

This method uses cast 'T' pieces to connect the handrail tubes in the same plane as the vertical post.



Cat ladder installation connection featuring guardrail return connection



Stop End Shoe Extension



Wall Plate Fixing

# SAFETY REGULATIONS

## The Shorguard SG4 Permanent Guardrail System complies with:

- The requirements of section 6 of the Health & Safety at Work Act 1974 and Work at Height Regulations 2005, Schedule 2.
- HS (G) 46 'Site Safety Concrete Construction'
- HS (G) 33 'Safety In Roofwork'
- H.S.E. 'Work On Flat Roofs' Sheet No 21
- The **latest** Workplace (Health Safety & Welfare) Regulation 13 Para 109 Effective 1.1.93. Minimum height of guardrail 1100mm – Permanent. Minimum height of guardrail 950mm – Temporary.

For details of The Shorguard SG1,SG2,SG3 and SG4 Temporary Systems, please refer to our special leaflet featuring details of systems' compliance with relevant standards including EN 13374: Temporary Edge Protection Systems.



**The complete Shorguard range has been tested by Lloyd's Register Materials Laboratory. Shorguard SG4 complies with the requirements of section 6 of the Health & Safety at Work Act 1974.**

**The Shorguard Guardrail system for temporary and permanent use was awarded the Sun Alliance International trophy for "Outstanding achievement in Occupational Risk Improvement".**



*The system can be designed to accommodate various roof profiles and air conditioning plant.*



*Full edge protection is maintained during refurbishment and repair work.*



*Variations to roof levels and pitches can be accommodated.*



*SG4 can be configured to guard rooflights.*

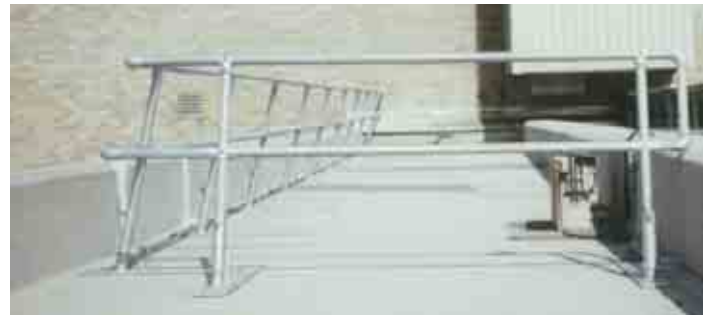
# Over 20 Years Industry Experience

These are typical market sectors where Shorguard SG4 has been specified and installed to provide safe and secure edge protection:

**Civil Engineering • Commercial Buildings • Education • Hospitals • Hotel & Leisure • Manufacturing Industry • Public Buildings • Public & Social Housing • Power Industry • Retail • Shopping Centres • Water Industry**



Safe access points can be formed within the system.



Final stage of guardrail installation.



The galvanised system is ideal for use in aggressive and marine environments.



Shorguard is the registered trademark of JP Whelan Plant  
UK Patents 2229216,2299827

**The professionally designed freestanding guardrail system that's reliable, low-cost and easy to install.**

JP Whelan Plant reserve the right to change, alter or modify any detail, weight, dimension or code at any time without prior notice being given.

User Guidance Notes are available from the address opposite.  
If you have any specific technical requirement contact us for free advice.



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