

GRP ERGONOMIC HANDRAIL SYSTEM



The Ergonomic Handrail System is our premium alternative to the modular Handrail System. It is pre-manufactured in house to suit your exact site requirements, and shipped to site for simple installation.

The Decksafe Limited Ergonomic Handrail System comprises of 50 x 50mm Square box Section Stanchions, a 38mm Diameter Mid-Rail and ergonomic Top Rail, along with an optional kick-plate system.

All components are manufactured from pultruded fibreglass structural sections, with a superior surface veil to improve aesthetics.

The handrail system is ideally suited for industrial and commercial applications, particularly in harsh environments where its corrosion resistance allows it to out-perform conventional galvanised steel equivalents.

The non-metallic finish ensures that it is warm to touch, non-conductive, and due to its complete pigmentation throughout does not require painting or powder-coating. All handrail components are joined via stainless steel rivets, screws or bolts, and the complete system is easily installed on-site.

Ergonomic Handrail System (Floor Mounted)



- Top Rail: Mushroom Style
- Stanchion: Box Section
- Mid Rail: Round Tube
- Kick PLate: Corrugated Profile
- Substare Fixing: Pedestal Base

Ergonomic Handrail System (Side Mounted)



- Top Rail: Mushroom Style
- Stanchion: Box Section
- Mid Rail: Round Tube
- Kick PLate: Corrugated Profile
- Substare Fixing: Side Mount via bracket or anchor bolts



Mid-Tube



Stanchion



Top Rail



Kick Plate



Box Foot

BENEFITS

- ✓ Lightweight.
- ✓ Non-Conductive.
- ✓ Durable.
- ✓ Fire Retardant.
- ✓ Colourfast Yellow or Grey.
- ✓ Easy to install.
- ✓ Ideal for larger installations.
- ✓ Warm to the touch.
- ✓ BS Compliant BS7818:1985 (0.84 k/N)
- ✓ Corrosion resistant.

GRP Structural Pultruded Profiles are manufactured by combining a resin matrix with a fibre reinforcement. This is formed and cured in a continuous process creating a product of extraordinary strength and resilience. GRP Structural Pultruded Profiles provide a variety of benefits and mechanical properties matching or exceeding steel equivalents. A wide range of structural profiles are available including U-Channel, I-Beam, Tube, Box, Angle, Rod and Handrail.

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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.



Slip Resistance

The integral angular quartz gritted surface has been Tested in accordance with BS7976-2 and provides an exceptional level of slip resistance. Lifespan depends on frequency of use.



Load Capabilities

Designs are adapted using the various different sizes and type GRP profiles to accommodate the individual applications requirements. Designs are from standard pedestrian / maintenance loads up to vehicular and plant loadings. Decksafe's GRP Hand Railing has been tested to BS7818:1995 (0.84kN).



Handling/Cutting

Wear mask and goggles when cutting or grinding. Cover exposed parts of the body. Use diamond tipped or tungsten tipped cutting blades / circular discs. Further cutting instruction available upon request.



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 our separate chemical resistance charts SOS-DST-10.



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 7class2 flame spread to give a 30 minute burn time.



Hazard Identification.

None by contact. Dust produced by cutting or grinding can penetrate pores and skin causing itching. Avoid breathing dust, skin contact or dust inhalation when cutting. People with a condition that could be aggravated by dust should avoid cutting or grinding.



Available Colours.

- Grey
- Yellow
- Bespoke colours on request.



Waste Disposal.

Product is no considered a hazardous waste. Abide by local law and procedures.

FOR MORE INFO

Call: 01206 322 899

Email: sales@deck-safe.co.uk

Visit: www.decksafe.co.uk

V3-25.01.2019

DATASHEET DS-DSP-02

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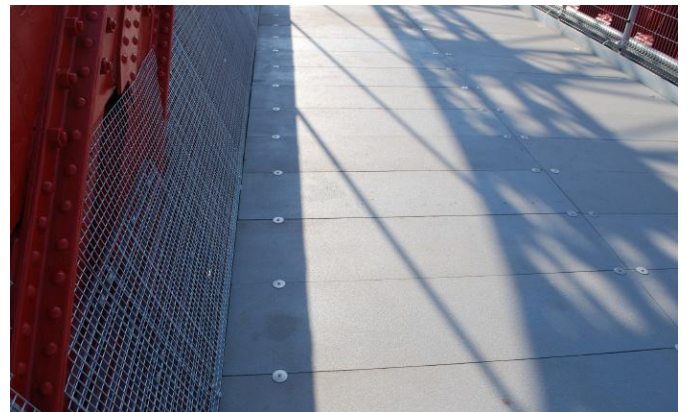
DATASHEET DS-DSP-02

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Related Products



Access Ladder



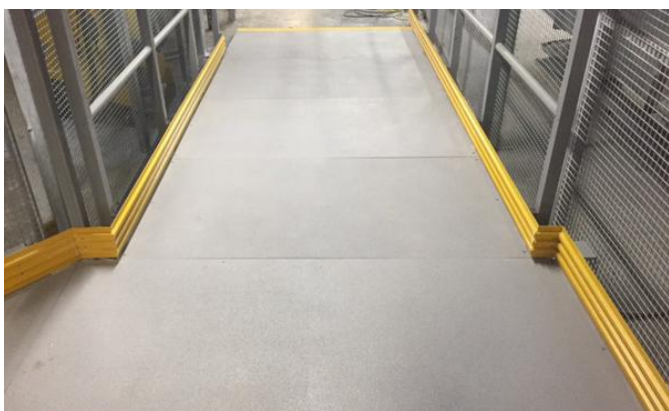
Flat Plate



Nosing



Grating



Solid Top



Stair Tread Covers

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