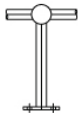
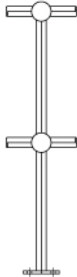
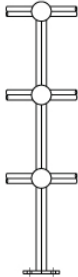
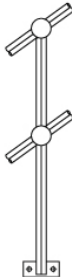
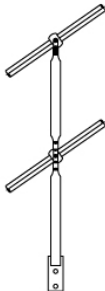


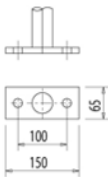
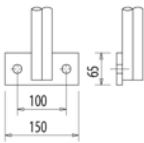
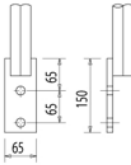
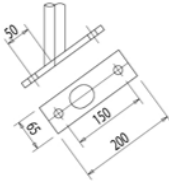
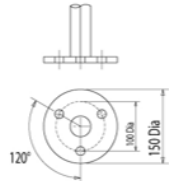
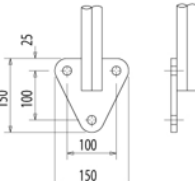
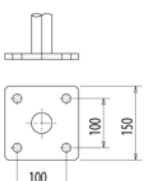


Typical Handrail Standard Types:

Guardrail Engineering is the UK's largest manufacturer of welded tubular handrail standards, suitable for Industrial Walkways, Platforms & Ladders

				
Single ball	Double ball	Triple ball	Raking Balls	"Flexi-Rail" 0 to 45 degrees

Typical Base Plate Types:

						
GS1	GS2	GS3	GS4	GS6	GS7	GS8



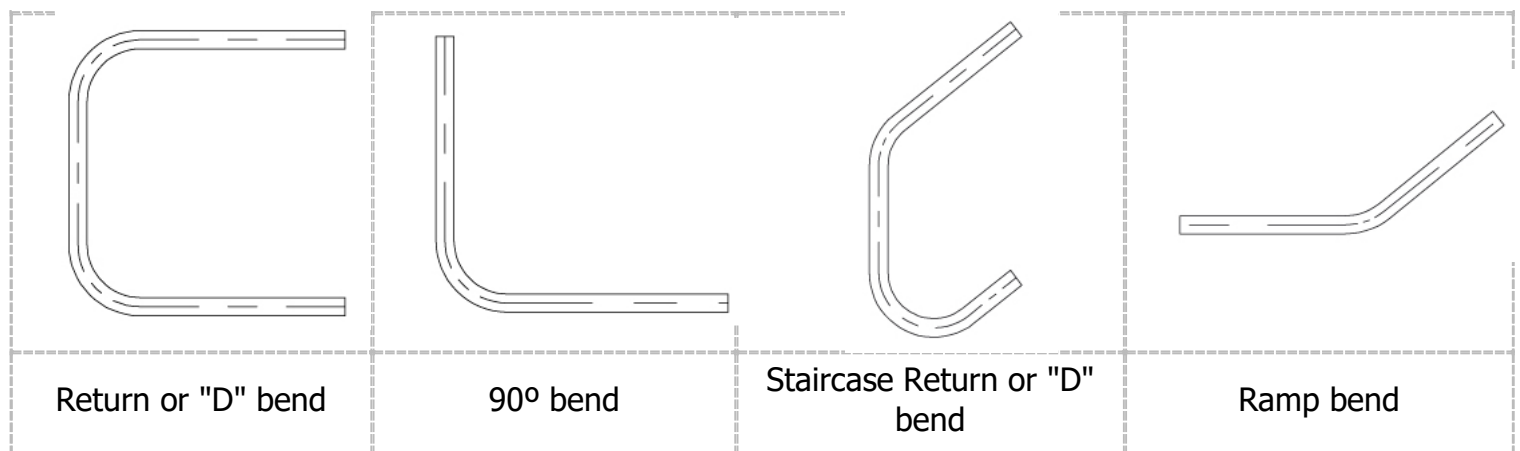
Handrail Load Table, if unsure, please contact to clarify loading and handrail specification
sales@guardrailgroup.com or 01902871208

Handrail Standard Shank Size/Material Specification	Handrail Size/Material Specification	Ball Size/Material Specification	Horizontal Design Load							
			0.36 kN/m		0.74 kN/m		1.00k N/m		1.50k N/m	
			1150mm High, Flat base	1225mm High, Side palm	1150mm High, Flat base	1225mm High, Side palm	1150mm High, Flat base	1225mm High, Side palm	1150mm High, Flat base	1225mm High, Side palm
Tubular Standards (Maximum horizontal spacing in mm)										
33.7x3mm CHS, S235JRH	33.7X3mm CHS, S195T	63/34, S235JRH	950							
42.4x3mm CHS, S235JRH	33.7X3mm CHS, S195T	82/34, S235JRH	1650	1450	850					
42.4x3mm CHS, S235JRH	42.4X3mm CHS, S195T	82/42, S235JRH	1750	1550	850					
48.3x3mm CHS, S235JRH	33.7X3mm CHS, S195T	82/34, S235JRH	1950	1800	1100	1050				
48.3x5mm CHS, S355J2H	42.4X3mm CHS, S195T	82/42, S235JRH	2450	2000	1300	1000				
60.3x4mm CHS, S235JRH	48.3X3mm CHS, S195T	95/48, S235JRH					1600	1500	1150	1050
Solid Standards (Maximum horizontal spacing in mm)										
32mm Dia. Solid, S275JR	33.7X3mm CHS, S195T	64/36, S275JR	1350	1150						
38mm Dia. Solid, S275JR	33.7X3mm CHS, S195T	70/36, S275JR	1900	1750	1200	1000				
38mm Dia. Solid, S275JR	42.4X3mm CHS, S195T	77/45, S275JR	2150	1950	1300	1000				

Handrail bends / Joints

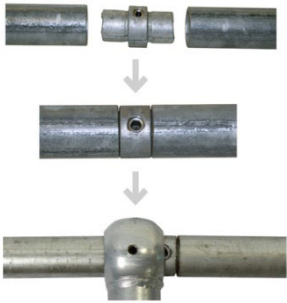
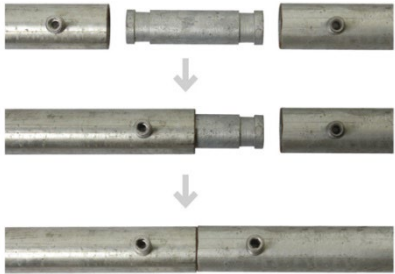
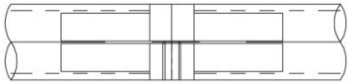
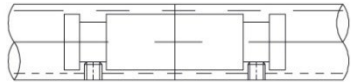


Typical return bends:



We manufacture ramp bends, "D" bends, staircase return "D" bends and 90-degree variants. Prefabricated pre-galvanized (S195T) handrail sections are held in stock to allow fast deliveries, allowing handrail systems to be constructed without the need for bending on site. While these are all considered typical returns, there can also be times when our technicians can offer bespoke options for unique circumstances. Guardrail supply Pre-galvanized (S195T) rail and Hot dip galvanized or self colour (S235JRH) to suit.

Handrail connectors:

		
		
<p>Expanding joint</p> <p>Connectors are pushed into the tube and secured by tightening the grub screw with an allen key</p>		<p>Grooved joint</p> <p>Each section of handrail tube is drilled and tapped to enable an M8 grub screw to be located between the groove of the connector and secured with an allen key</p>

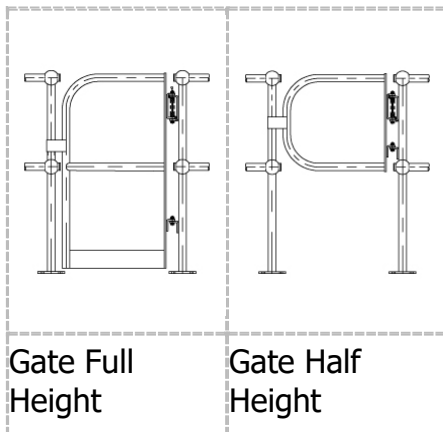
We manufacture and supply handrail connectors, which are designed to provide an in line joint between tubes of the same diameter of rail (33.7mm,42.4mm and 48.3mm O/d) and in two designs, expanding joints or grooved joints, both galvanized finish and supplied with grubscrews. Each type of joint achieves the same result, each design preferred in different industries/authorities. From an aesthetics point of view, when designing a handrail system, we prefer to position the connections so that they occur with the ball of the standard, so that they are out of site, but they can be positioned to be seen outside of the ball at a maximum of 150mm from the centre of the handrail standard.

Handrail self-closing gates and infills



Guardrail's Handrail self-closing gates and infills are specifically designed in a variety of sizes to suit your requirements.

We manufacture and sell standard and individually fabricated self-closing gates for handrailing. Our tubular, self-closing gates can be mounted on flats, to handrail standards or RSA uprights or secured to existing posts. Self-closing gates are available in a galvanized finish or in various grades of stainless steel.



We offer two variants:

Ideal for access in locations where safety is paramount, a self-closing gate allows access through the handrail. Self-closing gates close automatically due to the sprung hinge. The gate provides personal protection equal to the surrounding handrail infrastructure (handrail, knee-rail and toe-plate).

We can supply Handrail self-closing gates and infills complete with posts, with bolt on plates or as a gate only with lugs for welding.

To add further protection, we can offer a range of options for handrail infill using wire mesh gratings and perforated sheets.