



# Interclamp<sup>®</sup>

The right connection



More than just handrails...

# Design & Materials

Interclamp is a versatile range of quality galvanised malleable iron pipe fittings with a multitude of uses. Designed for easy, simple and fast erection of rigid structures by hand with the minimum of tools, Interclamp is a cost effective, efficient system, particularly compared with traditional methods of construction such as welding, where specialist tools and extensive training and experience are required. Interclamps are made from malleable iron manufactured in conformance with BS EN 1562:1997, a dependable and well-proven material for this type of product. The fittings are then hot-dipped galvanised to BS EN ISO 1461:1999 to produce a durable corrosion resistant finished surface for extended life. For customising to specific end-user requirements, powder coating is available applied over the galvanising in a wide spectrum of RAL or BS colours on request. Quality setscrews are utilised, as these are a vital component in the high structural integrity of the fitting.

## Sizes

Six different size ranges of Interclamp are available as shown in the table, hence a suitable size can be selected for any particular application. Interclamps are easily identified by a type number of each design eg. 125 followed by a size code eg. D48, the latter part of which corresponds with the approximate outside diameter of the tube to be used (48.3mm = 1 1/2" nominal bore in this case). Hence a 90° elbow suitable for an 1 1/2" nominal bore tube in this example would be denoted as a 125-D48.

Interclamp Size	Nominal Bore	Outside Diameter
AA21	1/2"	21.3mm
A27	3/4"	26.9mm
B34	1"	33.7mm
C42	1 1/4"	42.4mm
D48	1 1/2"	48.3mm
E60	2"	60.3mm

## TÜV Rheinland Product Safety Type Approval

The following Interclamps have been tested and type approved by TÜV Rheinland, the leading independent test house in Europe:

101, 104, 116, 119, 125, 128, 129, 130, 131, 132, 135, 136, 137, 143, 144, 145, 146, 147, 148, 149, 150, 152, 153, 154, 155, 156, 158, 161, 165, 167, 168, 169, 173, 176, 185 & 191.



## Applications

Although most commonly used in handrailing and safety guardrailing situations, the variety of structures made possible by the wide extent of the versatile range is only limited by your ingenuity. In addition, custom designed interclamps are available on request. An indication of typical applications is as follows:

Handrails • Fences & Security Fencing • Playground Equipment • Milking Parlours • Railway Guardrailing • Garment Racking • Market Stalls • Cycle Racks & Trolley Bays • Sports Practice Nets (Golf, Cricket, Baseball, Football etc.) • Sports Grounds & Arenas Machinery Guards & Enclosures • Motorway Control Installations • Road Signs • Roof Top Fall Prevention Systems • Heavy Duty Workstations • Safety Guardrails • Retail Displays & Shopfitting • Racking • Agricultural Enclosures • Greenhouses • Exhibition Stands & Displays • Industrial & Domestic Furniture • Temporary Buildings • Wheelchair Access Ramps • Theme Park Queue Management Canopies & Car Ports • Lighting Supports • Roof Guardrails • Film Sets • Cable Reels • General Signage • Civic Amenity/Recycling Sites • Shipbuilding • Access Platforms/Mezzanine Floors • Water Treatment Works • Staircase Handrails • Commercial Billboard Frames

Illustrated in this brochure are the main types of Interclamp designs available. Please note that we are continuously expanding and developing our range, so if the fitting or size you require is not shown, please contact us. Certain illustrations show powder coated Interclamp fittings, tube and pedestrian barriers available at extra cost. Some photographs shown are of foreign applications which do not necessarily conform to all market specifications.





# Interclamp Assist

The Interclamp Assist range has been specially designed to help compliance with the Disability Discrimination Act (DDA) and the Building Regulations Part M:2004. Unlike many brands, the Assist range is assembled very quickly and easily by hexagon key, with no riveting, drilling of tube, welding, threading or specialist tools required. Furthermore, no other special fittings are required, which enables full integration with both new Interclamp systems and the refurbishment or upgrading of existing tubular structures to help meet the newer access specifications.

In order to meet the requirements of the above standards, the range forms smooth flush joints with size C42 tube. Tube (and fittings where necessary) may be coated in BS or RAL colours to help meet 'not cold to the touch' and contrasting colour requirements. Steps and disabled access slopes may easily be accommodated, facilitating compliance with public access standards.

Please note, in common with type 150, tubes must be 42.4mm od x 3.2mm wall thickness eg. 1 1/4" medium weight to BS EN 10255 (formerly BS1387). All cut tube ends must be deburred and treated with Interclamp Silver Galvanising Spray or other suitable protection. Optional O-rings may be fitted to each end of the expanding Assist fittings to achieve the best finish. Patent applied for.

## Assist Assemblies










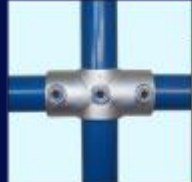








































The following illustrations show typical combinations of Interclamp Assist fittings. Type 133-C42 may substitute type 333-C42 if required. In some cases, size of type 101 may be modified to suit D48 size post. The assemblies illustrated may require more than one of each Assist fitting. Bolts and nuts for type 750-C42 are sold separately.

















































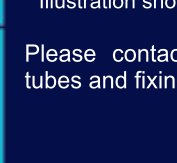
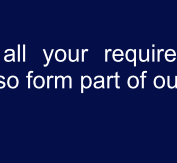
### Top Rails



### Terminations



	<b>101</b> A27 B34 C42 D48 E60		<b>101</b> C42/B34 D48/B34 D48/C42 E60/D48 B34/C42 C42/D48		<b>104</b> A27 B34 C42 D48 E60		<b>116</b> AA21 A27 B34 C42 D48 E60		<b>117X</b> D48 Retro-fit
	<b>117X</b> D48 Retro-fit		<b>117Y</b> D48 Retro-fit		<b>117Y</b> D48 Retro-fit		<b>117Y</b> D48 Retro-fit		<b>119</b> A27 B34 C42 D48 E60
	<b>119</b> C42/D48	 40° - 70°	<b>123</b> D48	 15° - 60°	<b>124</b> B34 C42 D48		<b>125</b> AA21 A27 B34 C42 D48 E60		<b>125</b> D48/C42
 30°-45°	<b>127</b> B34 C42 D48		<b>128</b> A27 B34 C42 D48 E60	 30° - 60°	<b>129</b> A27 B34 C42 D48	 30° - 45°	<b>130</b> B34 C42 D48		<b>131</b> AA21 A27 B34 C42 D48 E60
	<b>132</b> A27 B34 C42 D48 E60	 Plastic	<b>133</b> A27 B34 C42 D48 E60		<b>134</b> B34 C42 D48		<b>135</b> A27 B34 C42 D48 E60		<b>135X</b> D48
	<b>136</b> C42 D48		<b>137</b> D48		<b>138</b> A27 B34 C42 D48		<b>140</b> A27 B34 C42 D48		<b>143</b> A27 B34 C42 D48
	<b>144</b> B34 C42 D48		<b>145</b> B34 C42 D48		<b>146</b> B34 C42 D48		<b>147</b> B34 C42 D48		<b>148*</b> A27 B34 C42 D48 E60
	<b>149</b> AA21 A27 B34 C42 D48 E60		<b>150</b> B34 C42 D48	 0° - 11°	<b>152</b> B34 C42 D48	 0° - 11°	<b>153</b> B34 C42 D48	 0° - 11°	<b>154</b> B34 C42 D48
 0° - 11°	<b>155</b> B34 C42 D48	 0° - 11°	<b>156</b> B34 C42 D48		<b>158</b> A27 B34 C42 D48 E60		<b>160</b> A27 B34 C42 D48 E60		<b>161</b> A27 B34 C42 D48 E60
	<b>161</b> B34/A27 C42/B34 D48/B34 D48/C42 E60/D48		<b>165</b> B34 C42 D48 E60	 0° - 120°	<b>166</b> AA21 B34 C42 D48 E60		<b>167</b> A27 B34 C42 D48 E60		<b>167M</b> A27 B34 C42 D48 E60

	<b>168</b> A27 B34 C42 D48 E60		<b>168M</b> A27 B34 C42 D48 E60		<b>169</b> A27 B34 C42 D48 E60		<b>169M</b> A27 B34 C42 D48 E60		<b>170</b> A27 B34 C42 D48 E60
	<b>171</b> A27 B34 C42 D48 E60		<b>173</b> A27 B34 C42 D48 E60		<b>173F</b> A27 B34 C42 D48 E60		<b>173M</b> A27 B34 C42 D48 E60		<b>174</b> D48
	<b>174M</b> D48		<b>175</b> D48		<b>175M</b> D48		<b>176</b> A27 B34 C42 D48 E60		<b>179</b> A27 B34 C42 D48 E60
	<b>182</b> A27 B34 C42 D48		<b>185</b> D48		<b>191</b> D48		<b>192</b> B34 C42 D48		<b>197</b> D48
	<b>198</b> B34 C42 D48		<b>199</b> B34 C42 D48		<b>232</b> D48		<b>246</b> D48		<b>251</b> D48
	<b>252</b> D48		<b>253</b> D48		<b>255</b> D48		<b>256</b> D48		<b>300*</b>
	<b>302</b>		<b>303*</b>		<b>305</b>		<b>310</b>		<b>333*</b> A27 B34 C42 D48 E60
	<b>304</b>		<b>390</b>		<b>392</b>		<b>394</b>		<b>720</b> C42
	<b>721</b> C42		<b>723</b> C42		<b>725</b> C42		<b>731</b> C42		<b>745</b> C42
	<b>747</b> C42		<b>750</b> C42		<b>770</b>		<b>797</b> C42		<b>798</b>

\* Illustration shows 2 fittings

Please contact us with all your requirements for tubes and fixings which also form part of our range



Please note that the ultimate responsibility for the correct choice of size and type of fitting for any application belongs with the customer. The customer is responsible for ensuring that the construction or structure is sufficiently strong to support the weight of its component parts plus any applied load, and that suitable fixings are used. Interclamp fittings must not be welded and we strongly recommend that types 132 or 152 are always used where base plates are required, fitted so that the fixing holes are in line with the applied load. To provide sufficient stability, whole structures must not be made from swivel fittings alone. Whilst every effort has been taken to ensure the information given in this publication is correct, the right is reserved to alter or revise this information as and when necessary. No part of this publication may be reproduced without our written permission.

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