



Qclamp® fittings are a blackheart malleable iron casting manufactured to BS EN 1562:1997 using grade B32-10 material with a hot dipped galvanised finish to BS EN 1461:1999.

All Qclamp® fittings are supplied with stainless steel grub screws. The grub screws can be tightened with an Allen key, however, if fully tightened using a ratchet key to a torque of 4.1kg/m (29ft/lb) the grub screw is capable of withstanding an applied slip load of 900kg.

Qclamp® fittings are available in five standard sizes designated by the suffix 1 to 5 on the Qclamp® reference number. The standard tube sizes are given in the following table.

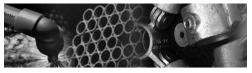
Size reference	Tube diameter (O/D)	Norminal bore
4	,	0/2
I	26.9mm	3/4"
2	33.7mm	ı
3	42.4mm	11/4"
4	48.3mm	11/2"
5	60.3mm	2"

Note: The nominal bore is a discretionary dimension only. The wall thickness can vary depending on the gauge of tube used which will alter the bore measurement.

All Qclamp® and DDA fittings are tested and approved by $T\ddot{U}V$, Europe's leading independent testing house, in sizes 1 to 5.



The technical details in this Product Guide have not been subjected to the TÜV testing process. A copy of the TÜV certificate is available by request. Whist every effort has been taken to ensure that the information in this Product Guide is correct, Tubetrade plc reserves the right to alter and revise this information as and when required and accepts no liability for errors or omissions. No part of this Product Guide may be reproduced without prior written consent from Tubetrade plc.



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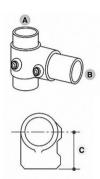




Product number

Short Tee





Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
101-1	1	1	41						0.19
101-2	2	2	46						0.30
101-3	3	3	60						0.46
101-4	4	4	68						0.53
101-5	5	5	84						0.85

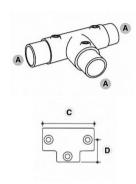
A 90° tee connection between two tubes. Typical use is on straight and level guardrail to connect the vertical to the top rail or end/mid rail to the vertical. This Q clamp fitting cannot be used to join tubes in the top of the short tee. For this the Q clamp fitting 104 Long Tee should be used.





Long Tee

Product number 104





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
104-1	1		82	41					0.32
104-2	2		92	46					0.49
104-3	3		120	60					0.79
104-4	4		136	68					0.93
104-5	5		168	84					1.50

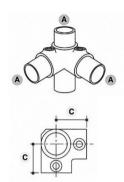
A 90° tee connection between two tubes. Typical use is on straight and level guardrail to connect the vertical to the top rail. This Q clamp fitting can be used to join tubes in the top of the twin grubscrew long tee.



Product number 116

3 Way Through





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
116.1	4		40						0.07
116-1	- 1		40						0.27
116-2	2		48						0.40
116-3	3		60						0.61
116-4	4		68						0.72
116-5	5		86						1.15

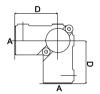
A 90° corner joint with the vertical passing through the Q clamp fitting. Typical use is on straight and level guardrail for connecting the mid/lower rail to the vertical at a 90° corner. Can also be used in a similar way on other rectangular structures.





Add on 3 Way Through

Product number 116A





Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
116A-4	4			88					1.15

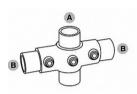
The Add on Three Way Through allows additional work to be carried out without dismantling the existing structure.



Product number 119

2 Socket Cross







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
119-1	1	1	80						0.27
119-2	2	2	96						0.37
119-3	3	3	120						0.62
119-4	4	4	135						0.71
119-5	5	5	168						1.15

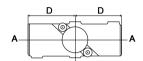
A 90° joint between a vertical and two horizontals. Typical use on straight and level guardrail to connect the mid/lower rails to the upright. The vertical must remain continuous with cross rails cut. Normally used in conjunction with the Q clamp fitting 104 Long Tee.





Add on 2 Socket Cross

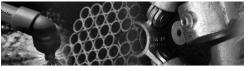
Product number 119A





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
119A-4	4			88					1.16

The Add on 2 Socket Cross allows additional work to be carried out without dismantling the existing structure.



Product number 123

Acute Angle Elbow







Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
123-4				134	120	120			1.16

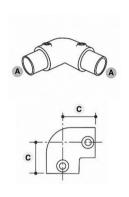
Alternative to bending to form a connection between a sloping tube and an end post.





90° 2 Way Elbow

Product number 125





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
125-1	1		41						0.24
125-2	2		46						0.36
125-3	3		60						0.59
125-4	4		68						0.69
125-5	5		84						1.12

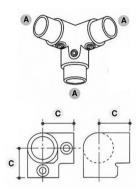
A 90° elbow. Typical use is to connect the end vertical to the top rail in straight and level guardrail. Can also be used to create a 90 tube bend.



Product number 128

3 Way 90° Elbow





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
128-1	1		40						0.35
128-2	2		48						0.50
128-3	3		60						0.80
128-4	4		68						0.98
128-5	5		85						1.67

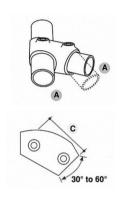
A 3 way enclosed 90° corner joint. Typical use is on straight and level guardrail at a 90 corner where an upright is in position. This Q clamp fitting can also be used to create enclosed corner joints in other square structures such as benches etc.





Adjustable Tee

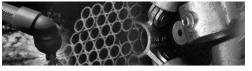
Product number 129





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
129-2	2		70						0.40
129-3	3		85						0.65
129-4	4		90						0.75

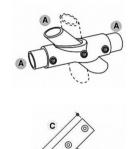
Freely adjustable tee between 30° and 60°. Typical use is a tee connection on angled top rails on steeper slopes or stairs with the upright remaining vertical. This fitting can also be used for bracing on structures. This fitting has no ability to join tubes. An alternative for this situation is the Q clamp fitting 127.



Product number 130

Adjustable Cross





30° to 45°

Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
130-2	2		147						0.63
130-3	3		199						1.03
130-4	4		217						1.15

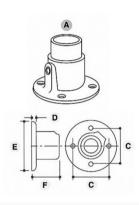
Freely adjustable cross between 30° and 45°. Typical use is as a cross connection on angled mid/lower rails on steeper sloped or stairs with the upright remaining vertical. The upright must remain continuous with the cross rails being cut.

Not recommended for use on the top of the vertical.



Wall Plate

Product number 131





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
131-1	1		57	6	83	42		8	0.29
131-2	2		65	7	89	48		8	0.44
131-3	3		76	7	102	50		8	0.61
131-4	4		88.5	7	114	59		8	0.84
131-5	5		95	7	127	64		8	0.98

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

THIS FITTING IS NOT RECOMMENDED FOR USE AS A BASE PLATE FOR GUARDRAILING

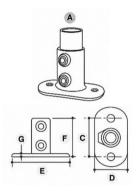
With four countersunk holes, this fitting is ideal as a flange to terminate handrail to a wall or other similar application. This fitting may be used on structures where it is only required as a positional fixing.



Product number 132

Base Plate





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
132-1	1		76	52	105	60	7	11	0.40
132-2	2		89	62	127	71	7	14	0.64
132-3	3		101	72	139	84	7	14	0.85
132-4	4		114	86	152	89	10	14	1.15
132-5	5		127	104	165	104	10	17	1.50

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

A structural base plate for all aspects of vertical post support. This fitting when used as a base plate for guardrailing should always be positioned with the holes across the line of the guardrail to give maximum strength.

The holes in the base plate are large enough to enable the use of mechanical or chemical anchor fixings.





Plastic Stop Ends

Product number 133





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
133-2	2								0.01
133-3	3								0.01
133-4	4								0.015
133-5	5								0.02

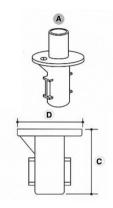
A plastic stop end for use in the end of tubes. This stop end can be used in either medium or heavy gauge tube. This is only a friction fit and for a more permanent fix an adhesive is recommended.



Product number 134

Ground Socket





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
134-2	2		123	127					1.85
134-3	3		136	140					2.46
134-4	4		136	140					2.47

A ground socket cast into concrete which is flush to the finished ground level. The upright is held in place using the grubscrew but can easily be removed without leaving any obstructions.



Retro Fit Clamp on Tee Inline

Product number 135







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
135-1	1		50						0.27
135-2	2		53						0.32
135-3	3		67						0.50
135-4	4		77						0.55

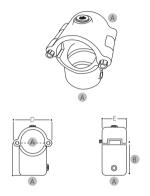
Inline Add on Tee. Used for making additions to upgrading or modifying an existing structure without having the need to dismantle part or all of that structure.



Product number 136

Add On Tee





ı	Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
	136-3	3	60	88	76	56				0.605
	136-4	4	70	100	83	62				0.778

The add on tee enables a structure to be extended, avoiding the need for dismantling.

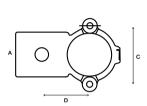
WARNING: THIS CLAMP SHOULD NOT BE USED TO JOIN LENGTHS OF TUBE.





Crossover 90°

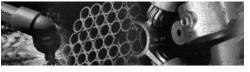
Product number 137





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
137-4	4		67	55					0.78

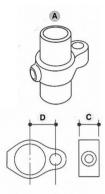
A 90° tee connection between two tubes. Typical use is on straight and level guardrail to connect the vertical to the top rail. This Pipeclamp fitting can be used to join tubes in the top of the twin grubscrew long tee.



Product number 138

Gate Eye





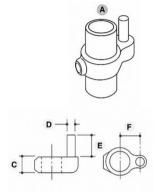
Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
138-1	1		25	30				14	0.16
138-2	2		25	33				14	0.18
138-3	3		25	38				14	0.21
138-4	4		25	41				14	0.22

Female section of a two part gate hinge. Used in conjunction with Q clamp fitting reference 140.



Gate Hinge

Product number 140





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
140-1	1		25	13	38	30			0.24
140-2	2		25	13	38	33			0.26
140-3	3		25	12	38	38			0.29
140-4	4		25	12	38	41			0.30

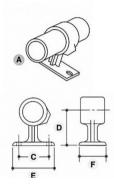
Male section of a two part gate hinge. Used in conjunction with Q clamp fitting reference 138.



Product number 143

Wall Mounted Handrail Bracket





Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
143-1	1		57	55	80	44		8	0.29
143-2	2		62	57	85	44		8	0.35
143-3	3		76	63	100	44		8	0.45
143-4	4		82.5	67	110	50		8	0.56

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

THIS FITTING IS NOT RECOMMENDED FOR USE AS A BASE PLATE FOR GUARDRAILING

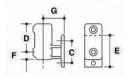
With four countersunk holes, this fitting is ideal as a flange to terminate handrail to a wall or other similar application. This fitting may be used on structures where it is only required as a positional fixing.



Structural Offset Side Palm Fixing

Product number 144







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
144-2	2			104	96		65	14	0.83
144-3	3			112	110		64.5	14	1.16
144-4	4			120	123		65	14	1.31

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

Structural offset side palm base fixing guardrailing to walls, steps, ramps, etc. The tube is unable to pass through this fitting as supplied. Should this be required then the base must be reamed out. Access to the top fixing is restricted. It is recommended that a threaded stud is fixed first with a maximum projection of 25mm.

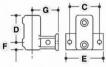


Product number 145

Non Structural Offset Side Palm Fixing







Q CLAMP REF No.	Α	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
145-2	2		67		102	30	57	14	0.85
145-3	3		73		111	53	64	14.5	1.12
145-4	4		89		119	68	73	14.5	1.44

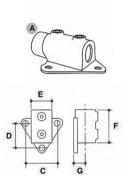
WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

This fitting is designed for palm fixing guardrailing and balustrading to walls, parapets, steps and ramps.



Structural Flush Side Palm Fixing

Product number 146





Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
146-2	2		71	63	45	76	24	12	0.55
146-3	3		82	72	56	83	28	12	0.76
146-4	4		86	78	61	89	31	12	0.83

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

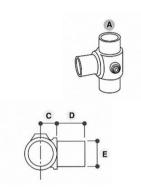
Structural flush side palm base fixing guardrailing to wall, steps or ramps etc. The flush design enables posts to be tight to the structure. The tube is unable to pass through the fitting. Should this be required then the base must be reamed out. If the base is reamed out the bottom fixing will become redundant.



Product number 147

Offset Swivel Tee





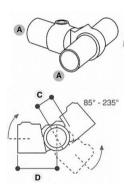
Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
147-2	2		23	29	34				0.31
147-3	3		26	37	42				0.43
147-4	4		30	42	48				0.53

An internal swivel tee used in conjunction with other Q clamp fittings in the range to create a 360° swivel joint. Ideal use on handrail or offset guardrailing down variable angled slopes. Eliminates the requirement for specialised angle fittings.



Short Swivel Inline Tee

Product number 148

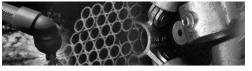




Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
148-1	1		-31	53					0.18
148-2	2		-33	59					0.27
148-3	3		-40	73					0.42
148-4	4		-46	93					0.60

NOTE: When using Q clamp 148 fittings for the top rail of a guardrail, the top of the upright must NOT be reduced in length but left at full height. The top of the tube will need to be capped using a Q clamp 133.

Shown priced and sold as a single fitting but normally used in pairs to create angles between 85° and 235°. A central tube is required to join the fittings together to create the angle. When working out the correct tube length dimension 'C' should be subtracted.



Product number 149

Inline External Tube Connector







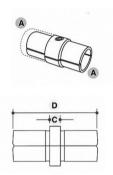
Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
149-1	1		76						0.27
149-2	2		89						0.39
149-3	3		102						0.55
149-4	4		102						0.56
149-5	5		120						0.88

An inline external tube connector for joining two tubes of the same diameter. This fitting is not recommended to be used in high load applications. For a smooth inline joint the Q clamp fitting 150 can be used.



Inline Internal Tube Connector

Product number 150





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
150-2	2		20	78					0.24
150-3	3		20	78					0.34
150-4	4		20	78					0.41

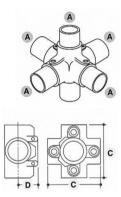
An inline internal tube connector for joining two tubes of the same diameter. This fitting can only be used with 3.2mm wall thick tube. This fitting is not recommended for high or tensile load applications.



Product number 158

4 Way Cross





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
158-1	1			41					0.43
158-2	2			46					0.59
158-3	3			60					0.98
158-4	4			68					1.17

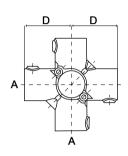
A 4 way cross that enables the vertical to pass through the centre of the fitting with the four horizontal tubes joining at 90° to each other. Ideal for structures with multiple verticals. The vertical must remain either continuous with the cross rails being cut.





Add on 4 Way Cross

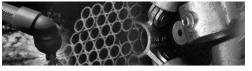
Product number 158A





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
158A-4	4			88					1.77

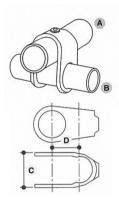
The Add on 4 Way Cross allows additional work to be carried out without dismantling existing structure.



Product number 160

Retro Fit Clamp on Tee





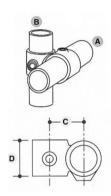
Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
160-2	2	2	35	34					0.25
160-3	3	3	45.4	43					0.38
160-4	4	4	51.6	49					0.50
160-5	5	5	63	61					0.65

Offset add on tee. Used for making additions to, upgrading or modifying an existing structure without having the need to dismantle part or all of that structure.



Offset 90° Crossover

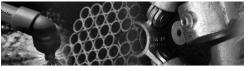
Product number 161





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
161-1	1	1	38	31.5					0.20
161-2	2	2	41	38.5					0.29
161-3	3	3	50	45					0.46
161-4	4	4	50	55					0.54
161-4/2	4	2	45	38.5					0.42
161-4/3	4	3	49	45					0.48
161-5	5	5	64	61					0.84

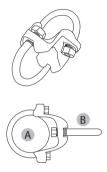
A 90° offset crossover fitting. The tube is unable to be jointed within this fitting. Ideal applications are for racking systems or offset guardrail. Where dimension 'D' indicates two figures, the first figure refers to tube 'A', the second refers to tube 'B'



Product number 161U

Crossover Bracket





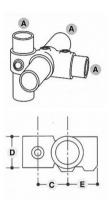
Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
161U-4	4	4							0.486
161U-5/4	5/4	5/4							0.599

Crossover Bracket for use on 40mm tube or 50mm \times 40mm tube. To form a solid connection.



Combination Socket

Product number 165





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
165-1	1		35		40				0.28
165-2	2		40		48				0.45
165-3	3		50		60				0.66
165-4	4		56		67				0.79

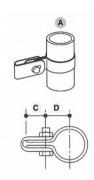
A combination fitting designed for use in the construction of racking systems. The fitting enables the connection of a vertical upright at 90° to two horizontal rails. One being the tie rail, the other being the load rail. On pallet racking the upright normally has the load rail on the inside, whilst for shelved racking the upright normally has the load rail on the outside.



Product number 170

Single Sided Mesh Panel Clip





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
170-1	1		22	25					0.07
170-2	2		25	28					0.08
170-3	3		25	33					0.08
170-4	4		25	35					0.09
170-5	5		25	40					0.09

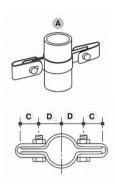
Dimension 'C' can be increased by up to 7mm because of the slotted hole.

Double location weldmesh panel clip. The slotted design of the panel clip enables adjustment in the location of the mesh panels. Supplied with M6 x 30mm long nut and bolt. This fitting can also be used to locate other materials up to 10mm thick provided the safety saddle is removed.



Double Sided Mesh Panel Clip

Product number 171

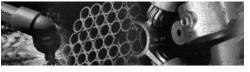




Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
171-1	1		22	25					0.10
171-2	2		25	28					0.11
171-3	3		25	33					0.12
171-4	4		25	35					0.12
171-5	5		25	40					0.13

Dimension 'C' can be increased by up to 7mm because of the slotted hole.

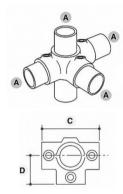
Double location weldmesh panel clip. The slotted design of the panel clip enables adjustment in the location of the mesh panels. Supplied with M6 \times 30mm long nut and bolt. This fitting can also be used to locate other materials up to 10mm thick provided the safety saddle is removed.



Product number 176

3 Way Outlet Tee





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
176-1	1			40					0.34
176-2	2			46					0.48
176-3	3			60					0.73
176-4	4			68					0.90
176-5	5			84.5					1.44

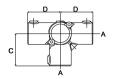
Three way tee used to join 3 tubes at 90° to each other with the vertical passing through the fitting. Typical use would be on structures such as market stall or play frames.





Add on Side Outlet Tee

Product number 176-A





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
176A-4	4		85	88					1.46

Add on Side Outlet Tee designed to allow additional work to be added without taking existing structure down.

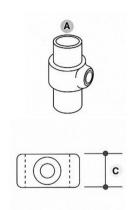






Locking Collar

Product number 179





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
179-1	1		22						0.08
179-2	2		25						0.11
179-3	3		25						0.14
179-4	4		32						0.15

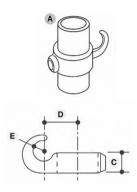
A locking collar used as extra support for a Q clamp fitting on structures where the slip load on the grubscrew may be exceeded i.e. racking. Can also be used to support a Q clamp fitting that is required to be left undone, i.e. a gate hinge.



Product number 182

Hook





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
182-1	1		25	32					0.16
182-2	2		25	34					0.18
182-3	3		25	39					0.20
182-4	4		25	41					0.21

Chain hook. Used to locate chains across openings. Not ideal for permanent chain location. Recommended that one end of the chain is fixed using a Q clamp fitting reference 173M and held in place with a nut and bolt.





Galvanised Plug

Product number 184





Q CLAMP REF No.	Α	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
184-2	2								0.057
184-3	3								0.101
184-4	4								0.144

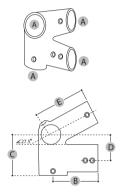
A galvanised stop end for use in the end of tubes. This stop end can be used in either medium or heavy gauge tube. This is only a friction fit and for a more permanent fix an adhesive is recommended.



Product number 185

Eaves Fitting





Q CLAMP REF No.	Α	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
185-4	4	83	93	55	70				1.22

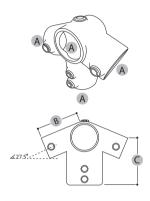
Designed for use in conjunction with the 191 for roofing applications on small structures.





Ridge Fitting

Product number 191





Q CLAMP REF No.	Α	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
191-4	4	68	95						1.07

Designed for use in conjunction with the 185 for roofing applications on small structures.



Product number 198

Double Sided Fixed Bracket









Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
198-2	2	60	86	27	30			10mm	0.29
198-3	3	65	95	30	33			10mm	0.37
198-4	4	70	104	32	35			10mm	0.43

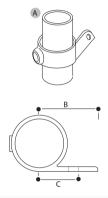
Allows for fixing to wooden planking or various panels for flush fitting.





Single-Lugged Bracket

Product number 199





CLAMP REF No.	Α	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
199-2	2		43						0.22
199-3	3		47.5						0.29
199-4	4		52						0.32

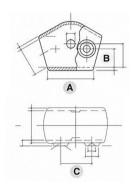
Often used for mounting boards practically flush with tubes. Fixing holes suit a wide range of common mechanical and chemical masonry anchors. The tube cannot be joined within the fitting.



Product number 224

Variable Angle In Line Connector





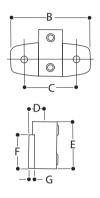
Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
224-2			40.0						0.38
224-3			47.5						0.62
224-4			54						0.63

A variable angle in line connector (110° - 180°) Ideally suited for use between the vertical end post and sloping top rail on stair guard railing.



Horizontal Railing Base

Product number 246

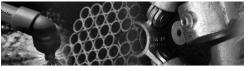




Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
246-2	2	148	100.5		90	64		14	0.96
246-3	3	148	100.5		90	64		14	1.23
246-4	4	145	102		90	75		14	1.07

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

Designed for palm fixing of guardrail and balustrades to walls, parapets, steps and ramps. The upright cannot drop through the socket.

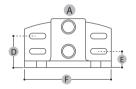


Product number 247

Base Flange with Kick Plate







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
247-3	3	45	90	58	30	100		14	2.04
247-4	4	45	90	58	30	100		14	2.14

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

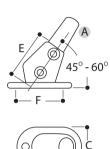
The Base Flange with kick plate is ideal for guardrailing and balustrading applications where the addition of a kick plate is required. The slotted holes allow for adjustment and ease of fitting.





Angle Base Flange

Product number 251





Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
251-3	7		76	138	95	106	10	14	0.59

WARNING: DUE TO THE NATURE OF THESE GALVANISED CASTINGS THE MEASUREMENTS GIVEN HERE CANNOT BE PRECISE. WE THEREFORE **DO NOT RECOMMEND** THAT ANY BOLT HOLES ARE PRE-DRILLED PRIOR TO INSTALLATION.

Used to set up the upright at an angle between 45° - 60° . This fitting should only be subjected to light loads which cannot be positioned at 90° to the applied load.



Product number 300/1

Grubscrews





Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
300 1-2	1-2		1/4 BSI	>					
301 3-4-5	3-4-5	(3/8 BSI)					

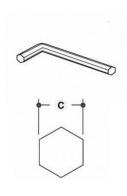
Stainless steel 410S grubscrews. These grubscrews are supplied pre fitted into the fittings.





Allen Key





O CLAMD



HOLE WEIGHT

REF No.	Α	В	С	D	Е	F	G	DIA mm	kgs
	,,					•		<i>D</i> .,	90
711.0 1 2	1-2		across f						
AKL 3-4-5	3-4-5	D/ I	6 across	flat					

Hexagonal key. The allen key is the only tool required to tighten up a Q clamp fitting. The use of the dual ratchet Q clamp reference 233 is recommended to achieve the required torque.







QCGS Galvanising Spray



When applied to a clean surface this zinc based galvanising spray provides an anti-corrosion protection and is recommended for use on Q Clamp Grub Screws and thread for outdoor installations.

PLEASE NOTE: Always follow directions for use on can





THE SWIVEL RANGE

The Qclamp® Swivel Range comprises the following fitting reference numbers:

125H. 167. 167M. 168. 168M. 169. 169M.173. 173F and 173M.

Excluding the use of the stand alone 125H, the Qclamp® Swivel Range is constructed using the relevant male and female fittings. The 173F is common to all such combinations.

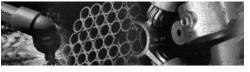
The range can be supplied in individual components or as complete units using either a rivet or nut and bolt to join the male and female fittings together.

The lugs have been designed to be of equal dimension regardless of the size of the fitting in order that a swivel connection can be created between different size tubes. E.g. a 173F-1 can be combined with a 173M-3 to create a connection between 26.9mm OD and 42.4mm OD tubing.

In addition to being used with the 173F to make the swivel combinations, all of the 'M' male fittings can be used to secure various types of infill in place.

WARNING:

An entire structure should not be built using only fittings from the Qclamp® Swivel Range as these would not provide sufficient stability or rigidity within the structure due to the free rotation of the fittings.

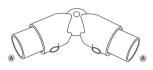


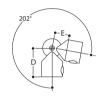


Product number 125H

Swivel Elbow







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
125H-2	2			62					0.60
125H-3	3			75					0.86
125H-4	4			85					1.05

125H fitting has been designed as a variable angle in-line connection, adjustable through 202°

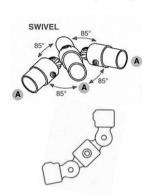
WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.





Double Inline Swivel Combination

Product number 167

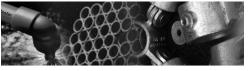




Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
167-1	1								0.67
167-2	2								1.04
167-3	3								1.30
167-4	4								1.49

Complete double swivel with the swivel connectors at 180° to each other. Each swivel has a travel of approximately 85° from the horizontal in both vertical directions

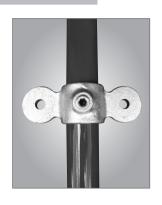
WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.

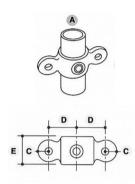




Product number 167M

Double Male Inline Swivel





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
167M-2	2			86	40			10	0.34
167M-3	3			95	45			10	0.40
167M-4	4			105	48			10	0.44
167M-5	5			124	38			10	0.56

A double male fitting with the lugs at 180° to each other.

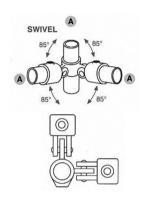
WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS
ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY
IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.





90° Corner Swivel

Product number 168

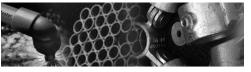




Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
168-1	1								0.66
168-2	2								1.02
168-3	3								1.18
168-4	4								1.49

Complete double swivel with the swivel connectors at 90° to each other. Each swivel has a travel of approximately 85° from the horizontal on both vertical directions.

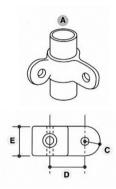
WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.



Product number 168M

90° Male Corner Swivel





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
168M-2	2			43.5				10	0.32
168M-3	3			48				10	0.28
168M-4	4			53				10	0.45

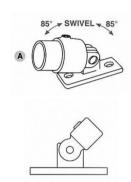
Double male fitting with the two lugs at 90° to each other.

WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.



Swivel Locating Flange

Product number 169



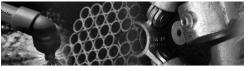


Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
169-1	1								0.58
169-2	2								0.71
169-3	3								0.81
169-4	4								0.88

Complete locating swivel. Swivel has a travel of approximately 85° from the vertical in each direction.

WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.

WARNING: THIS FITTING IS NOT RECOMMENDED FOR USE AS A BASE PLATE FOR GUARDRAILING

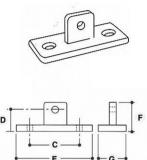




Product number 169M

Male Swivel Locating Flange





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
169M			85	32	112		52	10	0.36

Non structural male locating flange.

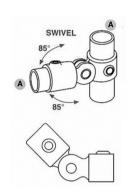
WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.





Single Swivel

Product number 173





	Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
	173-1	1								0.38
-	173-2	2								0.60
	173-3	3								0.77
	173-4	4								0.86
	173-5	5								1.20

Complete single swivel. The swivel has a travel of approximately 85° from the horizontal in both vertical directions.

WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.

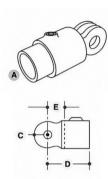




Product number 173F

Female Swivel





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
173F-1	1			61				10	0.22
173F-2	2			61				10	0.32
173F-3	3			69				10	0.42
173F-4	4			77				10	0.49
173F-5	5			90.5				10	0.72

This fitting is designed to be used in conjunction with the 'M' fittings and is not generally used on its own. This can be connected to the 'M' fitting by either rivet or nut and bolt.

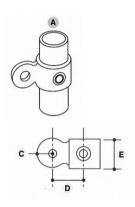
WARNING: AN ENTIRE STRUCTURE SHOULD NOT BE CONSTRUCTED FROM SWIVEL FITTINGS
ALONE, AS THESE WOULD NOT PROVIDE SUFFICIENT STABILITY OR RIGIDITY
IN THE STRUCTURE DUE TO THE FREE ROTATION OF THE FITTING.





Single Male Swivel

Product number 173M





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
173M-1	1			40	38			10	0.15
173M-2	2			43.5				10	0.25
173M-3	3			48	44.5			10	0.32
173M-4	4			53	44.5			10	0.33
173M-5	5			62	50.5			10	0.47

Single male fitting with only one lug.





The Slope Range

The Qclamp® Slope Range comprises the following fitting reference numbers: 201, 204, 219, 225 and 232.

The Qclamp® Slope Range fittings are designed for use on access ramps or other shallow gradients between 4° and 10° and enable a guardrail to be constructed along the length of the slope without the need for specially reamed out fittings or bending the tube.





Slope Range Short Tee

Product number 201

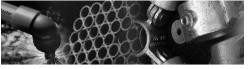






Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
201-2	46		46						0.36
201-3	59		60						0.54
201-4	68		68						0.65

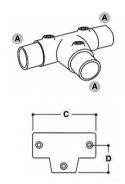
An adjustable tee connection between two tubes. Used on ramps and shallow gradient guardrail between verticals and top rails or the mid/lower rails to an end vertical. This fitting cannot be used to join tubes in the short tee. For this the Q clamp fitting 204 long tee should be used.



Product number 204

Slope Range Long Tee





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
204-2	46		104	46					0.52
204-3	60		145	60					0.89
204-4	68		168	68					1.11

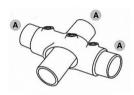
An adjustable tee connection between two tubes. Used on ramps and shallow gradient guardrail between verticals and top rails. This fitting can be used to joint tubes in the long tee.





Slope Range Socket Cross

Product number 219







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
219-2	2		110						0.45
219-3	3		140						0.70
219-4	4		158						0.83

An adjustable cross for connecting tubes between mid/lower rails and the vertical on ramps or shallow gradients. The vertical must remain continuous with the cross rails being cut.



Product number 225

Slope Range Elbow







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
225-2	2		46						0.40
225-3	3		60						0.63
225-4	4		68						0.80

An adjustable elbow. Used for the connection of the first vertical post at the start of the incline to the top rail. Only one barrel has the ability to take the adjustability, the other is fixed.

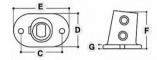




Slope Range Base

Product number 232

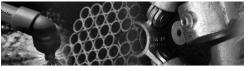






Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
232-2	2		89	80	127	90	7	14.5	0.83
232-3	3		101	90	140	98	7	14.5	1.06
232-4	4		113	96	153	99	7	14.5	1.3

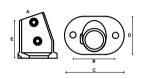
An adjustable structural base fitting for the vertical. The design of this fitting will only allow it to be installed in the correct plane. For correct orientation see pages 72 and 73.



Product number 252Z

Slope Base Flange 11°-29°





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
252Z-4	4	127	165	92	88				1.60

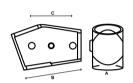
Adjustable slope base between 11°- 29°





Slope Short Tee 11°-29°

Product number 253Z





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
253Z-4	4	115	86						1.60

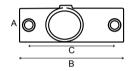
Adjustable short tee between 11°- 29°



Product number 255Z

Slope Long Tee 11°-29°





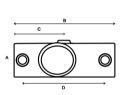
Q CLAMP REF No.	Α	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
255Z-4	4	187	154						1.08

Adjustable long tee between 11°- 29°





Slope Cross Middle Rsail 11° -29° Product number 256Z





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
256Z-4	4	187	93.5	154					1.06

Adjustable mid rail cross fitting between 11°- 29°







THE DDA RANGE

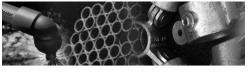
These fittings have been designed to comply with the Equality Act 2010 (Formerly the Disability Discrimination Act (DDA) 1995) and the Buildings Regulations 2010 - Part M: Access to and use of buildings.

Under these regulations, owners of commercial and public buildings are required to provide non-discriminatory access to their buildings. This range of fittings provides a sinpe cost effective solution to help builders and contractors to satisfy these requirements.

These fittings are used in conjunction with BS EN 10255 medium weight 32mm nominal bore galvanised tube and Qclamp® internal connectors and require no welding or skilled assembly.

Tubetrade's current DDA range is made up of:

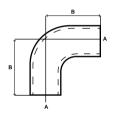
DDA1 DDA4 DDA2 DDA5 DDA3 DDA6



Product number DDA 1

Elbow





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
DDA-1	3	78.2						33.7	0.406

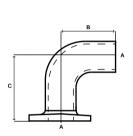
 90° bend used in conjunction with two 150-3 internal connectors.





End Plate







Q CLAMP REF No.	А	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
DDA-2	3	78	86					33.7	0.680

Wall bend. Screw to wall. Use in conjunction with 150-3 internal connectors.

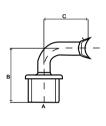




Product number DDA 3

Post Connector





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
DDA-3	4	85	70						0.565

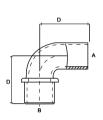
Mid rail tube support used in conjunction with a 101-4 for 48.3mm upright. Supports a 42.4mm top rail.





Post End Connector

Product number DDA 4





Q CLAMP REF No.	Α	В	С	D	E	F	G	HOLE DIA mm	WEIGHT kgs
DDA-4	3	4		78				33.7	0.513

Bend designed to reduce from 48.3mm on tube using 101-4 or 125-4 fitting continuing the rail using 150-3 internal coupling.

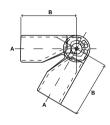






Variable Ellbow





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
DDA-5	3	88						42.4	0.578

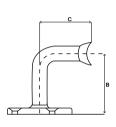
Swivel elbow designed to be used in conjunction with two 150-3 internal connectors.





Wall Plate







Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
DDA-6	95	70						6	0.800

Screw to wall flange designed to support a 42.4 top rail.





HOW TO CALCULATE CORRECT TUBE LENGTH

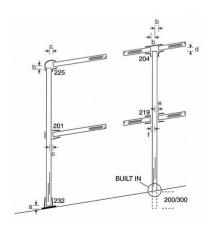
Upright

To calculate the upright height select the top post fitting to be used (201, 204, 255). Dim 'd' is the same for the 201 and 204 fitting. Subtract the relevant dimension from the upright length then either add or subtract the dimension for the ground fitting being used.

Crossrail

To calculate the crossrail length select the fittings being used then subtract the relevant dimension from the upright centres measured on the slope. Note the two different dimensions on fitting 219 depending whether it is up slope or down slope rail.

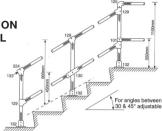
CUTTING CHART	А	В	С	D	Е	F	
	7	25	28	28	28	35	







UPRIGHT CONSTRUCTION FOR INLINE GUARDRAIL ON A SLOPE



HOW TO CALCULATE CORRECT TUBE LENGTH - UPRIGHT



	ANGLE	30°	35°	40°	45°
	Α	-34	-34	-37	-43
2	В	+24	+18	+11	+3
	С	+36	+42	+49	+58
	Α	-40	-44	-48	-54
3	В	+29	+21	+12	+3
	С	+44	+52	+61	+71
	Α	-45	-50	-55	-61
4	В	+33	+24	+14	+3
	С	+46	+55	+65	+77

To calculate upright height select the correct orientation for the 129 fitting and then either add or subtract the dimension, + or - ground fixing dimension.

HOW TO CALCULATE CORRECT TUBE LENGTH - CROSSRAILS



	ANGLE	30°	35°	40°	45°
	Α	32	34	37	44
2	В	55	51	48	46
	С	36	40	43	46
	Α	40	45	49	55
3	В	64	61	57	54
	С	41	45	49	53
	Α	46	51	56	61
4	В	78	74	64	65
	С	55	58	61	66

To calculate the rail length subtract the relevant dimensions from the upright centers measured on the slope.



Handrail Standards

The Qclamp® Handrail Standards Range comprises the following stock reference codes:

QCSMR - Standard Mid-Rail
QCSEP - Standard End Post
QCSCP - Standard Corner Post

These pre-assembled posts comprise galvanised EN10255 tube and Qclamp® fittings. They are supplied at a standard height of 1100mm with the lower rail fitting being set at approximately 560mm from the base. Both heights can be adjusted to suit the handrail installation. Each post is built using a 1075mm length of tube and is available in a size 3 (32mm) and size 4 (40mm).

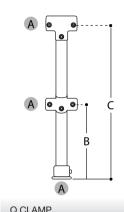
These handrail standards enable easier and faster installation of safety railing, handrails and barriers.





Standard Mid-Rail







HOLE

WEIGHT

Q OD WI								11000	**EIGIII
REF No.	Α	В	С	D	Е	F	G	DIA mm	kgs
QCSMR-3	3	560	1100						
QCSMR-4	4	560	1100						

Comprising a 1075mm length of galvanised EN10255 tube, a 132 Base Plate, 104 Long Tee and a 119 Two Socket Cross the Standard Mid-Rail is available in size 3 (32mm) and size 4 (40mm).

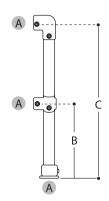






Standard End Post





Q CLAMP REF No.	А	В	С	D	Е	F	G	HOLE DIA mm	WEIGHT kgs
QCSEP-3	3	560	1100						
QCSEP-4	4	560	1100						

Comprising a 1075mm length of galvanised EN10255 tube, a 132 Base Plate, a 101 Short Tee and a 125 90° Two Way Elbow, the Standard End Post is available in size 3 (32mm) and size 4 (40mm).