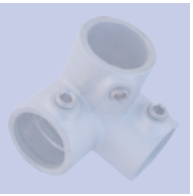
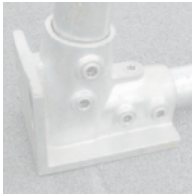
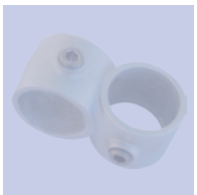
alexandra
Handrailing Systems

Complete Handrail Solutions







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2012

Introduction

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QuickClamp - A versatile, muti-purpose system using malleable cast iron fittings. The flexibility of the system allows complex structures to be assembled in a quick and efficient manner. Whilst used primarily to construct safety handrail and balustrades, QuickClamp also has many other uses such as providing support structure for canopies, carports and can provide framework for chainlink, mesh or ball stop fencing.

We would point out that the chosen size/combination for any application remains completely the responsibility of the customer and any dead and imposed loads applied must be taken into consideration when designing an installation.

RoofClamp - Has been designed to offer a non-penetrative roof edge protection system. Used specifically for the safety of employees and contractors working on or gaining access via a flat roof at height. The system has been designed to support a person leaning on the guardrail or to provide a hand hold when walking beside. It will stop a person who is walking or falling towards the protective rail.

DDAClamp - A complete system that has been specifically designed to help compliance with the Disability Discrimination Act (DDA) and the Building Regulations Part M:2004

All fittings are hot dip galvanised to BS EN ISO1461 and tubing is galvanised to BS1387 providing long lasting resistance to corrosion. Powder Coat finishes to standard RAL colours are available on request.

Contents

Tube

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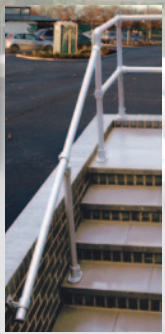
Tube for all systems is available in 3.2m or 6.4m lengths (approx size).

If delivery of 6.4m length tube is required please contact our sales office as special arrangements must be made for transportation.

Quickclamp Tube			
Code	Size ref	Tube OD/mm	Tube Length
QC263.2	1	26.9	3.2m
QC333.2	2	33.7	3.2m
QC423.2	3	42.4	3.2m
QC483.2	4	48.3	3.2m
QC266.4	1	26.9	6.4m
QC336.4	2	33.7	6.4m
QC426.4	3	42.4	6.4m
QC486.4	4	48.3	6.4m

Quick Reference



Quick Reference

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Allen Keys 	**101- Short Tee**  See Page 12	**104- Long Tee**  See Page 13
116 - Corner Centre Tube  See Page 14	**119 - Two Socket Cross**  See Page 15	**125 - 90° Elbow**  See page 16
128 - Three Way 90° Elbow  See Page 17	**129 - 30°- 60° Adjustable Tee**  See page 18	**130 - 30°- 60° Adjustable Cross**  See page 19
131 - Base Flange  See page 20	**132 - Railing Base Flange**  See page 21	**134 - Ground Socket**  See page 22

Quick Reference

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723 - DDA End Terminal

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725 - DDA 90° Elbow

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731 - DDA Wall Flange

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747 - DDA Internal Swivel

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748 - DDA Rivet on Internal Swivel

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750 - DDA Male Lug

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751 - DDA Rivet on Male Lug

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797 - DDA O-Ring

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701 - Short Tee Reducing

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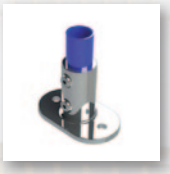
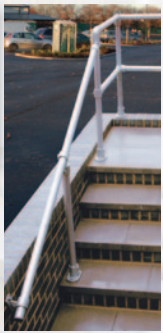
QuickClamp

Modular Handrail





Fitting no.101

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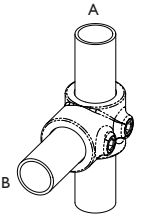
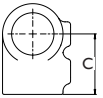


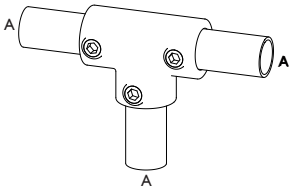
Short Tee

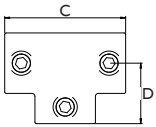


A 90° tee connection between two tubes. To join the top-rail to an inter post or an end post to a mid-rail. This fitting is not suitable for joining two tubes together.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC0126	1	1	42						0.23
QC0133	2	2	46						0.29
QC0142	3	3	62						0.45
QC0148	4	4	68						0.62

Fitting no.104





Long Tee

A 90° tee connection between two tubes. Used to join the top-rail to an inter post. This fitting can be used to join two tubes together.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC0426	1		85	42					0.38
QC0433	2		92	46					0.50
QC0442	3		122	61					0.86
QC0448	4		134	68					1.10

Fitting no.116

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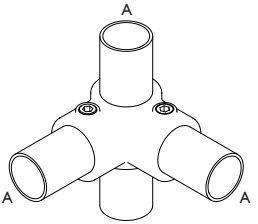
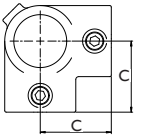


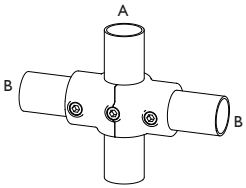
Corner - Centre Tube

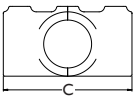


A 90° corner with a vertical tube passing through. Used to connect the mid-rail to a vertical on a 90° corner.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC1626	1		42						0.28
QC1633	2		46						0.41
QC1642	3		60						0.70
QC1648	4		68						0.85

Fitting no.119





Two Socket Cross

A 90° joint between the vertical tube and the horizontal. Used to connect the mid-rail to the inter posts.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC1926	1	1	84						0.28
QC1933	2	2	92						0.40
QC1942	3	3	122						0.65
QC1948	4	4	134						0.86

Fitting no.125

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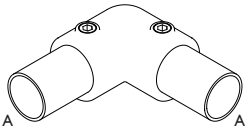
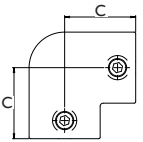


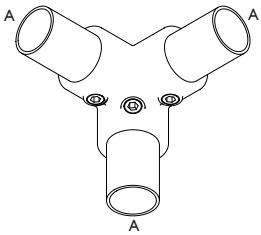
90° Elbow

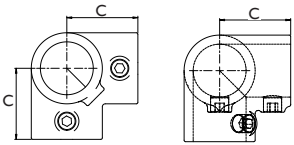


A 90° elbow used to join the end post to the top-rail at 90°.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC2526	1		41						0.27
QC2533	2		46						0.38
QC2542	3		58						0.68
QC2548	4		65						0.77

Fitting no.128





Three Way 90° Elbow

A 90° corner with a vertical tube. Used to connect two top-rails on a 90° corner with a vertical tube.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC2826	1		45						0.38
QC2833	2		46						0.48
QC2842	3		60						0.82
QC2848	4		68						1.14

Fitting no.129

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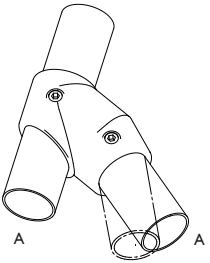
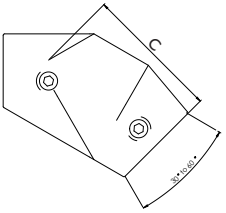


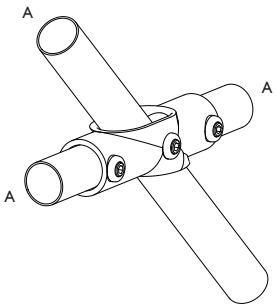
30°- 60° Adjustable Tee

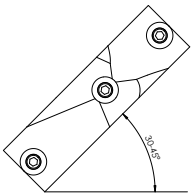


A 30°- 60° tee connection between two tubes. To join the top-rail at an angle of between 30°- 60° to an inter post.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC2933	2		86						0.44
QC2942	3		100						0.64
QC2948	4		105						0.97

Fitting no.130





30°- 45° Adjustable Cross

A 30°- 45° two socket cross connection between two tubes. To join the mid-rail at an angle of between 30°- 45° to an inter post.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3033	2		162						0.82
QC3042	3		190						1.17
QC3048	4		218						1.50

Fitting no.131

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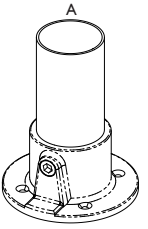
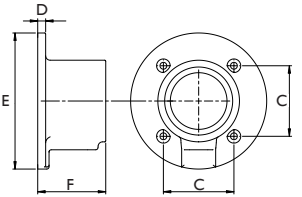


Base Flange

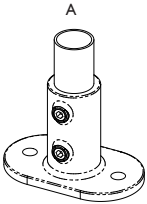


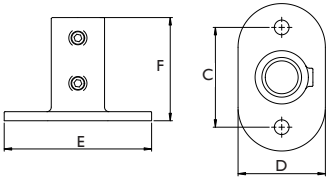
The base flange is used to terminate the tube to a wall or similar.

** Not suitable for use as a base plate for the hand railing system.*

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3126	1		57	6	81	40		7mm	0.34
QC3133	2		65	7	88	48		7mm	0.51
QC3142	3		78	7	102	51		7mm	0.63
QC3148	4		89	7	120	60		7mm	0.68

Fitting no.132





Railing Base Flange

This fitting is used as a base plate for the hand railing system and must always be positioned with the holes across the line of the railing for strength.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3226	1		76	64	114	76	7	11mm	0.50
QC3233	2		90	76	130	88	7	14mm	0.74
QC3242	3		100	80	140	90	7	14mm	1.06
QC3248	4		114	90	150	90	10	14mm	1.38

Fitting no.134

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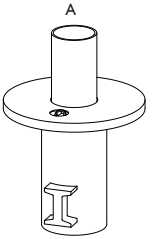
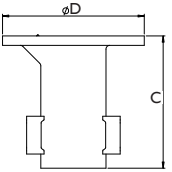


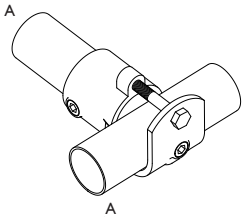


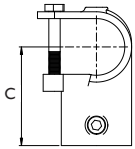
Ground Socket

The ground socket is cast into concrete and set flush with the ground. The vertical tube is held in place with the grubscrew but can be easily removed.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3433	2		123	127					2.33
QC3442	3		130	140					2.52
QC3448	4		130	140					2.26

Fitting no.135





Clamp on Tee

The clamp on tee is used to add additional supports to an existing structure without the need of dismantling.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3526	1		50						0.30
QC3533	2		50						0.33
QC3542	3		67						0.59
QC3548	4		70						0.61

Fitting no.138

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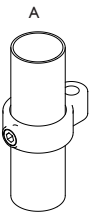
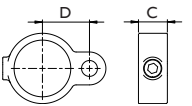


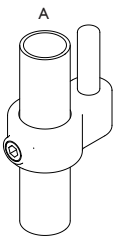
Gate Eye

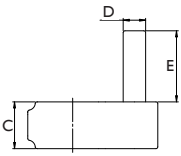


Female fitting of a two part gate hinge set, can be secured in any position on a vertical tube.

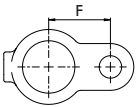
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3826	1		25	30				14	0.22
QC3833	2		25	33				14	0.26
QC3842	3		25	38				14	0.27
QC3848	4		25	41				14	0.29

Fitting no.140





Gate Hinge



Male fitting of a two part gate hinge set, can be secured in any position on a vertical tube.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4026	1		25	12	38	30			0.20
QC4033	2		25	12	38	33			0.25
QC4042	3		25	12	38	38			0.30
QC4048	4		25	12	38	41			0.31

Fitting no.143

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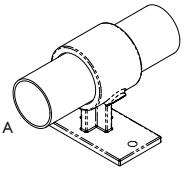
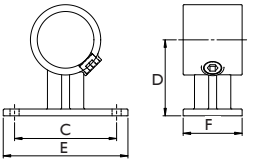


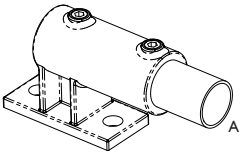
Handrail Bracket

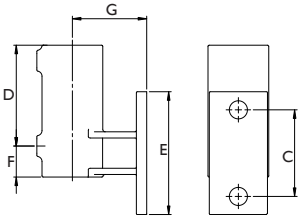


Wall mount bracket for the handrailing system. The tube passes through the bracket and can be secured at any point. Not suitable for use as a structural fitting.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4326	1		58	55	80	45		8	0.36
QC4333	2		63	58	85	45		8	0.45
QC4342	3		77	61	100	45		8	0.57
QC4348	4		89	70	110	50		8	0.78

Fitting no.144





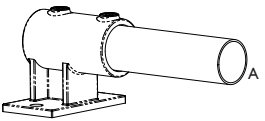
Structural Side Support

Structural offset side support for securing handrailing to walls, steps, etc. The tube is unable to pass through this fitting helping to add strength to the structure.

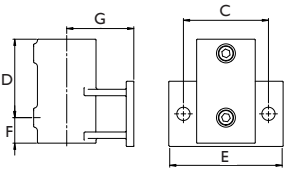
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4433	2		70	75	97	30	63	14	0.78
QC4442	3		80	85	110	30	66	14	1.12
QC4448	4		90	90	125	30	66	14	1.55

Fitting no.145

alexandra Handrailing Systems



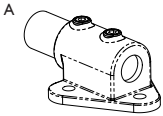
Non-Structural Side Support

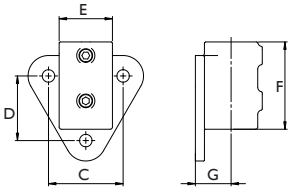


Non-structural offset side support for securing handrailing to walls, steps, etc.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4533	2		70	75	100	30	75	14	0.77
QC4542	3		73	85	113	53	64	14.5	1.08
QC4548	4		89	90	120	68	73	14.5	1.48

Fitting no.146





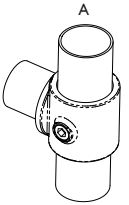
Structural Side Palm Fixing

Structural side palm fixing for securing handrailing to walls, steps, etc. The flush design allows the vertical tube to be tight to the structure.

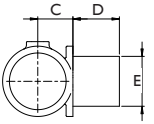
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4633	2		78	68	45	70	25	12	0.63
QC4642	3		86	75	56	79	28	12	0.81
QC4648	4		96	83	61	86	32	12	0.96

Fitting no.147

alexandra Handrailing Systems



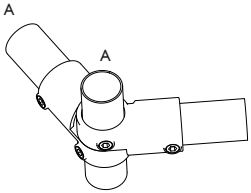
Internal Swivel Tee

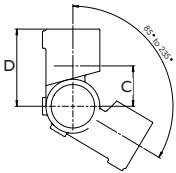


Used with other fittings within the Quickclamp handrailing range this fitting creates a 360° swivel joint.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4733	2		22	28	34				0.36
QC4742	3		28	35	42				0.55
QC4748	4		31	42	48				0.65

Fitting no.148





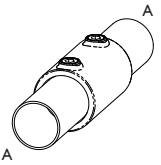
Short Swivel Tee

Always sold as pairs this fitting is used to create angles between 85° and 235°. A central vertical tube is required to join the fittings together.

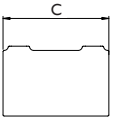
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4826	1		-31	60					0.20
QC4833	2		-33	60					0.30
QC4842	3		-40	75					0.42
QC4848	4		-46	85					0.54

Fitting no.149

alexandra Handrailing Systems



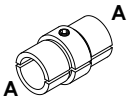
External Sleeve Joint

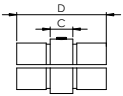


This fitting is used to externally join two tubes together of the same diameter.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC4926	1		76						0.27
QC4933	2		88						0.40
QC4942	3		100						0.52
QC4948	4		100						0.64

Fitting no.150





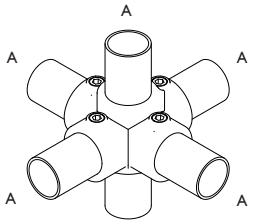
Internal Tube Joint

Always sold as pairs this fitting is used to internally join two tubes together of the same diameter.

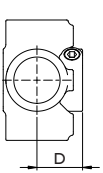
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC5033	2		20	80					0.26
QC5042	3		20	80					0.38
QC5048	4		20	80					0.55

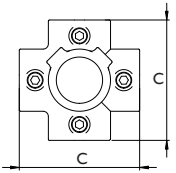
Fitting no.158

alexandra Handrailing Systems



Four Way Cross

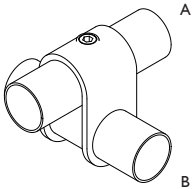


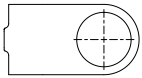


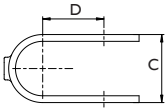
A four way cross that allows a vertical tube to pass through the centre of the fitting with four horizontal tubes joining at 90° to each other.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC5826	1		81	32					0.52
QC5833	2		92	37					0.60
QC5842	3		120	40					1.06
QC5848	4		136	53					1.46

Fitting no.160







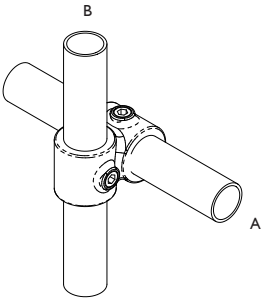
Clamp on Crossover

The clamp on crossover is used to add additional supports to an existing structure without the need of dismantling.

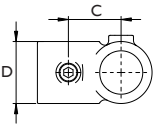
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC6026	1	1	35	27					0.18
QC6033	2	2	42	34					0.29
QC6042	3	3	50	43					0.47
QC6048	4	4	56	48					0.64

Fitting no.161

alexandra Handrailing Systems



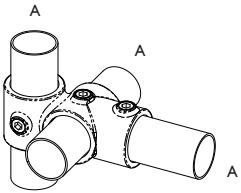
90° Crossover

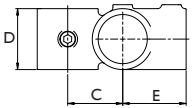


The tube is unable to be jointed within this fitting. Used for racking systems or offset handrailing.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC6133	2	2	38	40					0.32
QC6142	3	3	46	49					0.48
QC6148	4	4	51	50					0.60

Fitting no.165





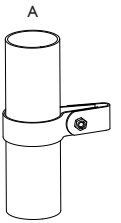
Combination Socket

A combination fitting for use in the construction of racking systems. The fitting allows a vertical tube to be connected at 90° to two horizontal tubes.

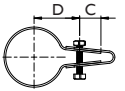
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC6526	1		37	34	42				0.31
QC6533	2		44	40	46				0.50
QC6542	3		54	49	60				0.70
QC6548	4		61	56	66				0.92

Fitting no.170

alexandra Handrailing Systems



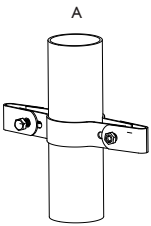
Single Sided Mesh Clip

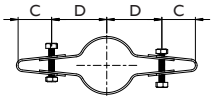


The single sided clip allows mesh panels to be secured to one side of a vertical or horizontal tube, supplied with M6x30mm long bolt and nut.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC7033	2		25	28					0.08
QC7042	3		25	33					0.08
QC7048	4		25	35					0.09

Fitting no.171





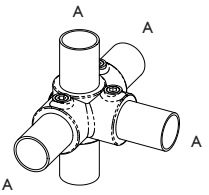
Double Sided Mesh Clip

This double sided clip allows mesh panels to be secured either side of a vertical or horizontal tube, supplied with M6x30mm long bolt and nut.

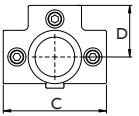
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC7133	2		25	28					0.13
QC7142	3		25	33					0.14
QC7148	4		25	35					0.15

Fitting no.176

alexandra Handrailing Systems



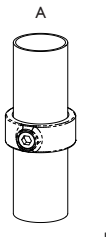
Side Outlet Tee

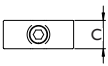


Side outlet tee used to join three horinzontal tubes at 90° to each other with a vertical tube passing through the fitting.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC7626	1		82	41					0.35
QC7633	2		92	46					0.46
QC7642	3		124	62					0.78
QC7648	4		136	68					1.20

Fitting no.179





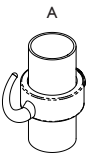
Locking Collar

The locking collar is used to add extra support to a structure where the slip load on the grubscrew is exceeded.

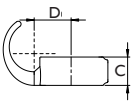
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC7926	1		22						0.15
QC7933	2		25						0.15
QC7942	3		25						0.18
QC7948	4		25						0.21

Fitting no.182

alexandra Handrailing Systems



Chain Hook

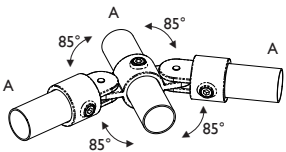


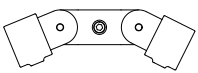
Chain hook used to locate chains across openings. We would recommend that one end of the chain is secured in place to prevent removal.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC8226	1		85	42					0.38
QC8233	2		92	46					0.50
QC8242	3		122	61					0.86
QC8248	4		134	68					1.10

Fitting no.167

Swivel





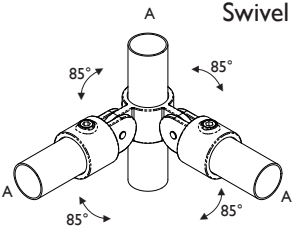
Double Swivel Combination

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

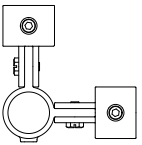
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC6726	1								0.99
QC6733	2								1.12
QC6742	3								1.36
QC6748	4								1.58

Fitting no.168

alexandra Handrailing Systems



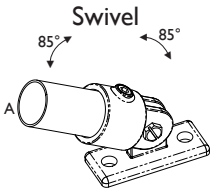
90° Corner Swivel

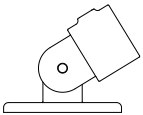


Double swivel combination with the swivel connectors at 90° to each other. Each swivel has a travel of approximately 85° from the vertical in both directions.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC6826	1								0.98
QC6833	2								1.13
QC6842	3								1.35
QC6848	4								1.57

Fitting no.169





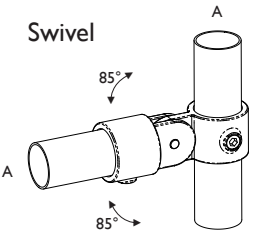
Swivel Flange

This fitting allows a tube travel of approximately 85° from the vertical in both directions.

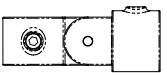
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC6926	1								0.71
QC6933	2								0.76
QC6942	3								0.84
QC6948	4								0.95

Fitting no.173

alexandra Handrailing Systems



Single Swivel Socket

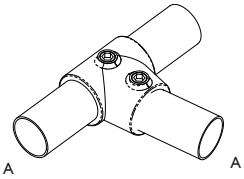


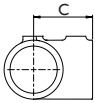
Single swivel combination. The swivel has a travel of approximately 85° from the horizontal in both vertical directions.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC7326	1								0.57
QC7333	2								0.66
QC7342	3								0.83
QC7348	4								1.01

Fitting no. 201

4°-10°





Angled Single Socket Tee

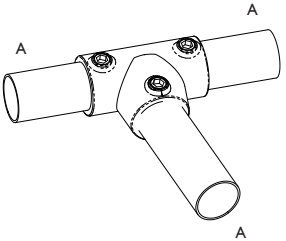
An adjustable tee connection between two tubes. Used on ramps to join the top-rail to an inter post or an end post to a mid-rail. Not suitable for joining two tubes.

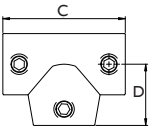
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC0133A	2		45						0.37
QC0142A	3		60						0.60
QC0148A	4		70						0.76

Fitting no.204

alexandra Handrailing Systems

4°-10°



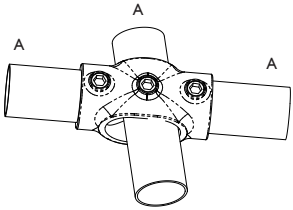


Angled Long Tee

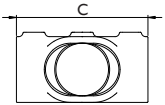
An adjustable tee connection between two tubes. Used on ramps to join the top-rail to an inter post. This fitting can be used to join two tubes together.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC0433A	2		102	49					0.53
QC0442A	3		142	60					1.00
QC0448A	4		157	70					1.28

Fitting no. 219



4°-10°



Angled Two Socket Cross

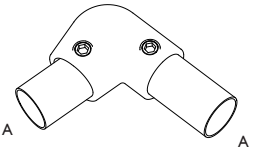
An adjustable joint between the vertical tube and the horizontal. Used to connect the mid-rail to the inter posts.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC1933A	2		112						0.48
QC1942A	3		140						0.73
QC1948A	4		158						0.92

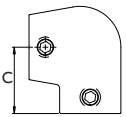
Fitting no.225

alexandra Handrailing Systems

4°-10°



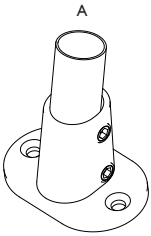
Angled Elbow



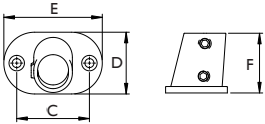
An adjustable elbow used to join the end post to the top-rail.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC2533A	2		46						0.40
QC2542A	3		60						0.62
QC2548A	4		68						0.97

Fitting no. 232



4°-10°



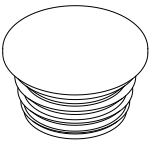
Angled Railing Base Flange

An adjustable base plate for the hand railing system. Used on shallow ramps with a rake of between 4°- 10 °.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3233A	2		89	80	127	90	7	14.5	0.86
QC3242A	3		101	90	140	98	7	14.5	1.08
QC3248A	4		113	96	153	99	7	14.5	1.34

Fitting no.133

alexandra Handrailing Systems



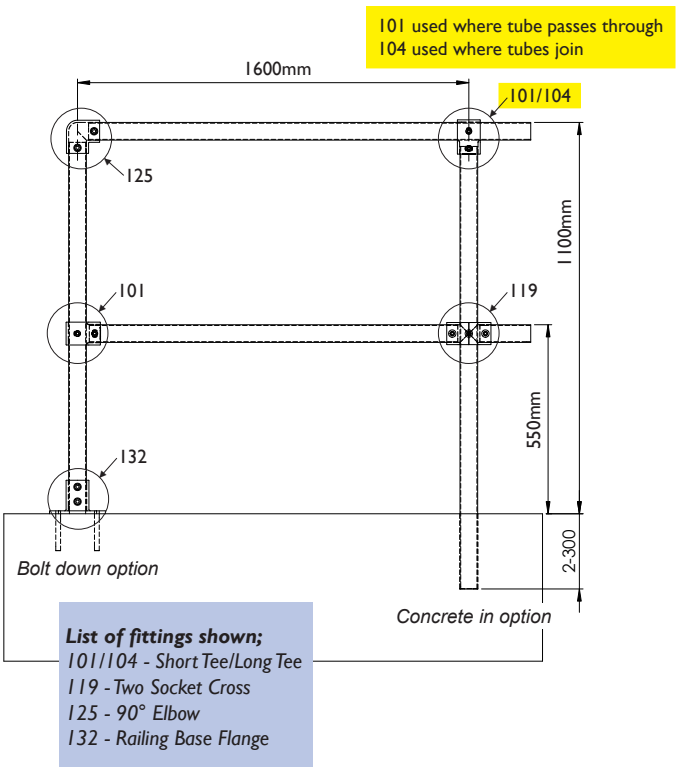
Plastic End Cap

A black plastic end cap used in the end of the tube.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
QC3326	1								0.01
QC3333	2								0.01
QC3342	3								0.01
QC3348	4								0.02

Construction

Typical handrail constuction on a level plain



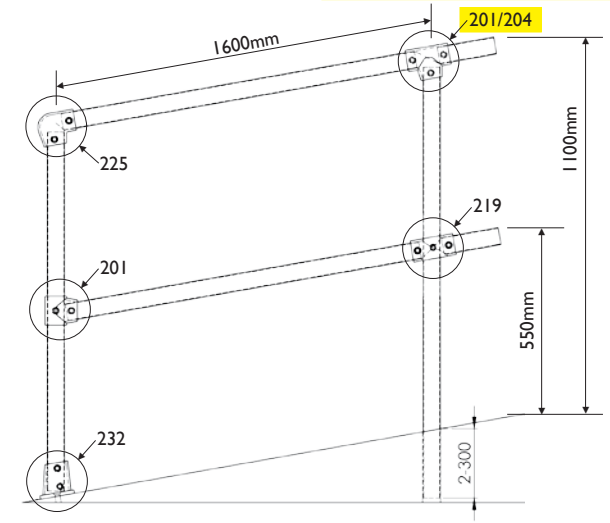
List of fittings shown;
101/104 - Short Tee/Long Tee
119 - Two Socket Cross
125 - 90° Elbow
132 - Railing Base Flange

Construction

alexandra Handrailing Systems

Typical handrail construction on a slope of between 4°-10°

201 used where tube passes through
204 used where tubes join

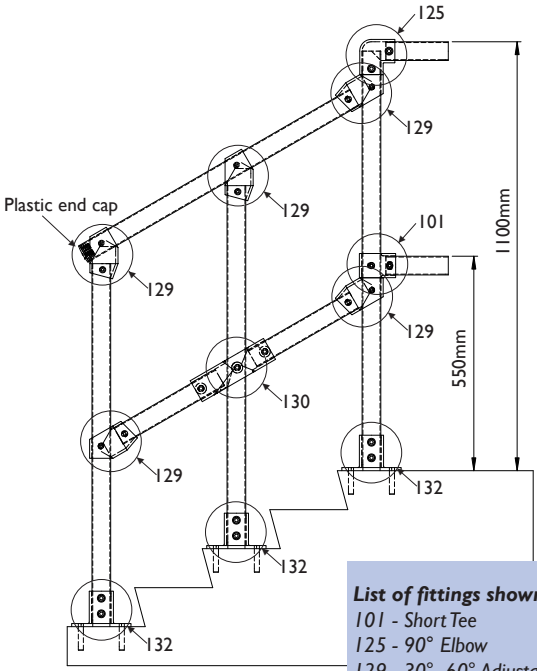


Bolt down option *Concrete in option*

List of fittings shown;
201/204 - Angled Short Tee/Long Tee
219 - Angled Two Socket Cross
225 - Angled 90° Elbow
232 - Angled Railing Base Flange

Construction

Typical handrail constuction on steps



List of fittings shown;
101 - Short Tee
125 - 90° Elbow
129 - 30°- 60° Adjustable Tee
130 - 30°- 45° Adjustable Cross
132 - Railing Base Flange

Code Conversion Table

alexandra Handrailing Systems

Table showing the equivalent product references used by other handrail suppliers

Our Code	Other Code	Other Code	Other Code
101	10	C03	A2
104	25	C04	A4
116	21	C21	A20
119	26	C22	A22
125	15	C02	A6
128	20	C20	A18
129	29	C29	A3
130	30	C28	A23
131	61	C11	A10
132	62	C12	A12
133	84	C65	A68
134	66	C17	A17
135	16	C41	A32
138	78	C31	A60
140	83	C32	A62
143	70	C16	A34
144	64	C13	A14
145	65	C14	A16
146	68	C15	A15
147	114	C06	A31
148	19	C25	A21

Quickclamp

Code Conversion Table

Table showing the equivalent product references used by other handrail suppliers

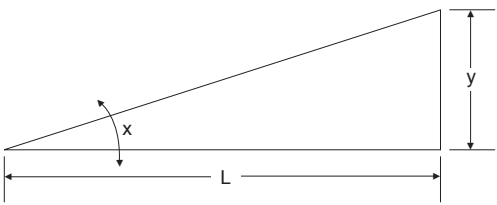
Our Code	Other Code	Other Code	Other Code
149	14	C00	A8
150	18	C01	A9
158	40	C24	A26
160	17	C42	-
161	45	C40	A28
165	46	C43	A30
167	C51	C47	A46
168	C52	C48	A48
169	C58	C46	A52
170	81	C66	A70
171	82	C67	A72
173	C50	C45	A44
176	35	C23	A24
179	75	C30	A58
182	76	C33	A64
201	86	C51	G02
204	88	C52	G04
219	89	C54	G22
225	87	C50	G06
232	67	C53	G12

Table showing rise in mm as angle of slope increases over various lengths

Angle of Rake	Length in meters showing rise in mm			
	1000mm	2000mm	3000mm	4000mm
4°	70mm	140mm	210mm	280mm
5°	87mm	175mm	262mm	350mm
6°	105mm	210mm	315mm	420mm
7°	123mm	246mm	368mm	491mm
8°	141mm	281mm	422mm	562mm
9°	158mm	317mm	475mm	634mm
10°	176mm	353mm	634mm	705mm

y = L x TAN (x)

Example; 2000 x TAN(6) = 210mm



RoofClamp

Roof Edge Safety

RoofClamp

alexandra Handrailing Systems

About the system and how the system works

The use of RoofClamp roof edge protection ensures the safety of employees and contractors working on or gaining access via a flat roof at height. The system has been designed to support a person leaning on the guardrail or to provide a hand hold when walking beside. It will stop a person who is walking or falling towards the protective rail.

The system uses a counterbalance weight made from rubber connected to a freestanding RoofClamp base by 2.0m of 42mm tube. The RoofClamp base supports a 1100mm high 48mm dia post which is connected to the horizontal guardrails by two RoofClamp hooks (see page 61). The system is installed without the need for welding or specialist equipment.

The counterbalance system is a proven method for roof edge protection and provides reliable safety without the need for a fixed penetrative guardrail. Once correctly installed with bays spanning 2.0m and with the top rail at a height of 1100mm the system meets the safety requirements of EN 13374: 2004 and EN 14122 - 3: 2001.

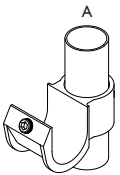
- *Meets all safety requirements*
- *Ease of Installation*
- *Non - penetrative*
- *Can be used as a temporary or permanent system*
- *Cost effective*
- *Suitable for use on all surfacing materials*

Construction

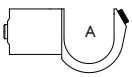
Typical RoofClamp construction showing associated fittings

Fitting No.234

alexandra Handrailing Systems



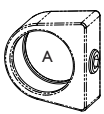
RoofClamp Hook



Hook fitting for use on the upright to support the top-rail and mid-rail sections of the system.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
RC234	4								0.81

Fitting No.235



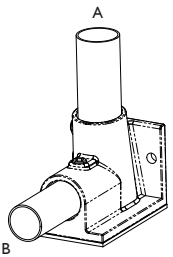
RoofClamp Locking Collar

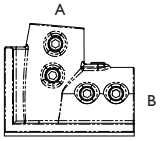
Locking collar for use in conjunction with the RC237 rubber weight.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
RC235	3								0.27

Fitting No.236

alexandra Handrailing Systems



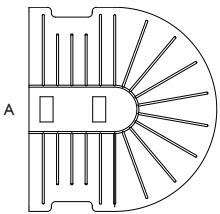


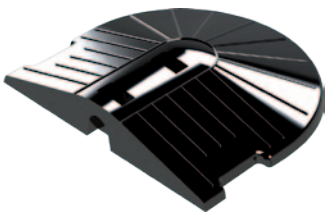
RoofClamp Base

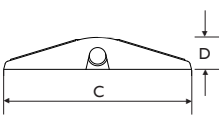
Base fitting to support upright and counter weight elements of system.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
RC236	4	3							2.60

Fitting No.237







RoofClamp Rubber Weight

Rubber weight for use in counter weight element of system in conjunction with 2no.RC235 locking collars.
Can be used as a single or double weight with associated fittings.

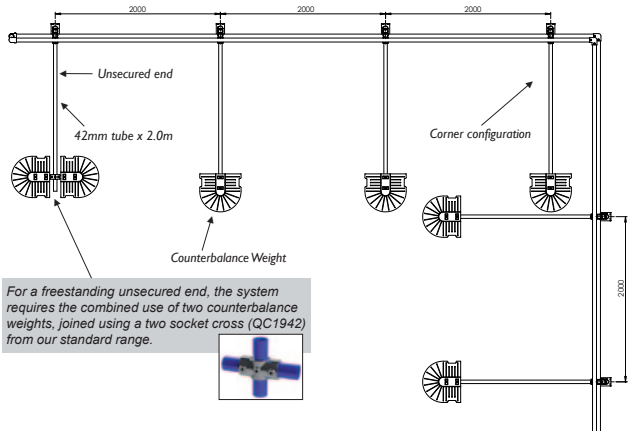
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
RC237	3		500	85					20.0

Specification

alexandra Handrailing Systems

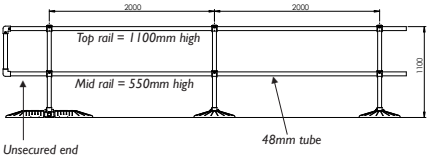
Freestanding configuration for the RoofClamp system showing corner and unsecured end

Plan View

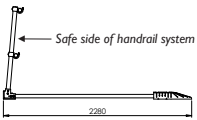


For a freestanding unsecured end, the system requires the combined use of two counterbalance weights, joined using a two socket cross (QC1942) from our standard range.

Front view



Side Elevation

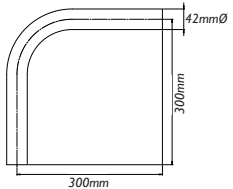


DDAClamp

Safe Handrailing

Fitting no.720

alexandra
Disabled Handrailing

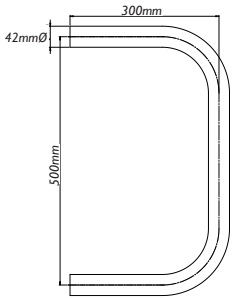


DDA 90° Bend

Manufactured from galvanised tube to form 90° corners with minimal parts.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA720	3								1.67

Fitting no. 721



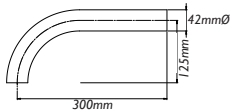
DDA 180° Return

Manufactured from galvanised tube to allow the handrail to return 180° to the mid-rail.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA721	3								3.00

Fitting no.723

alexandra
Disabled Handrailing

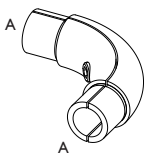


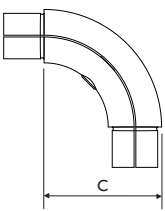
DDA End Terminal

Designed to terminate the handrail safely and prevent clothing being caught on the end.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA723	3								1.12

Fitting no. 725





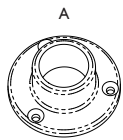
DDA 90° Elbow

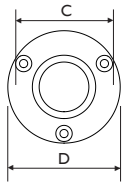
This fitting can be used with DDA731 to terminate the handrailing to a wall.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA725	3		72						0.81

Fitting no.731

alexandra
Disabled Handrailing



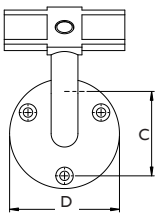


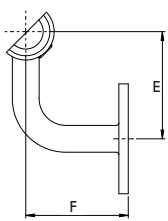
DDA Wall Flange

Used with fitting DDA725 to terminate the handrailing system to a wall.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA731	3		63	82					0.33

Fitting no. 745





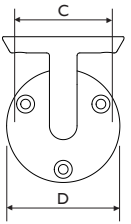
DDA Wall Bracket

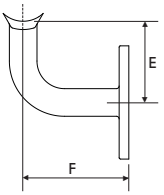
This fitting is used to attach the handrail system to the wall at any angle.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA745	3		63	82	80	77			1.00

Fitting no.746

alexandra
Disabled Handrailing



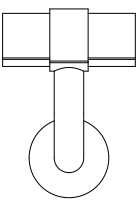


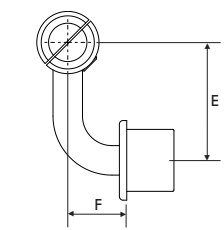
DDA - Rivet Wall Bracket

To attach the handrail to a wall at any angle. The bracket is riveted to the handrailing. Rivets are supplied separately at extra cost.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA746	3		63	82	60	77			0.63

Fitting no.747





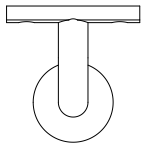
DDA Internal Swivel

To attach handrail to an upright at any angle when used in conjunction with type 101 or 125 for a single rail or type 104 for a double rail.

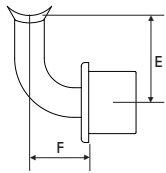
Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA747	3				80	40			0.88

Fitting no.748

alexandra
Disabled Handrailing



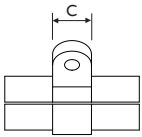
DDA - Rivet Internal Swivel



To attach handrail to an upright at any angle when used in conjunction with type 101 or 125 for a single rail or type 104 for a double rail. Rivets are supplied separately at extra cost.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA748	3				60	40			0.51

Fitting no.750



DDA Male Lug

Designed to attach a freestanding handrail to an upright at any angle when used in conjunction with type 173.

Code	A	B	C	D	E	F	G	Hole dia/mm	Weight Kgs
DDA750	3		25						0.50

Fitting no.751

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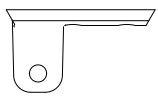
Disabled Handrailing



DDA - Rivet Male Lug

Designed to attach a freestanding handrail to an upright at any angle when used in conjunction with type 173F. Rivets, nuts and bolts are supplied separately at extra cost.

Code	Quickclamp dims/mm				To suit tube dia	Weight /kg
	A	B	C	D		
DDA751					42.4mm	0.14

Fitting no.797

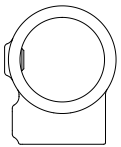
DDA O-Ring

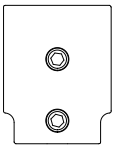
An optional extra to be fitted to each end of the expanding DDA fittings, to attain the best finish.

Code	Quickclamp dims/mm				To suit tube dia	Weight /kg
	A	B	C	D		
DDA797					42.4mm	0.00

Fitting no.701

alexandra
Disabled Handrailing





DDA - Short Tee Reducing

Used with fitting DDA725 to attach the handrail to an upright at any angle

Code	Quickclamp dims/mm				To suit tube dia	Weight /kg
	A	B	C	D		
DDA701					42/34mm	0.45

Combinations

These illustrations show various combinations of the AssistClamp and QuickClamp fittings

720 + 101 +133 + 747

747 + 101 + 133

747 + 125

747 + 104

720 + 101 +133 + 747

750 + 173 (female swivel)

725 + 701 +133

721 + 747 +101 + 133

723 + 747 +101 + 133

Construction

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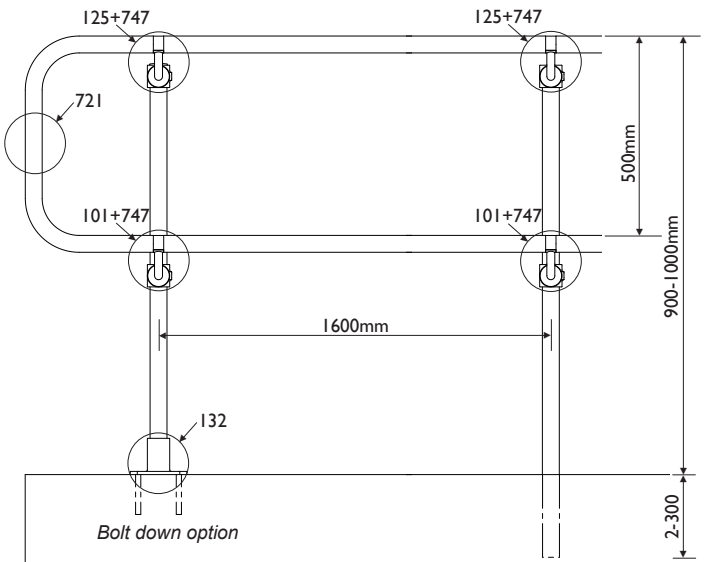
Disabled Handrailing

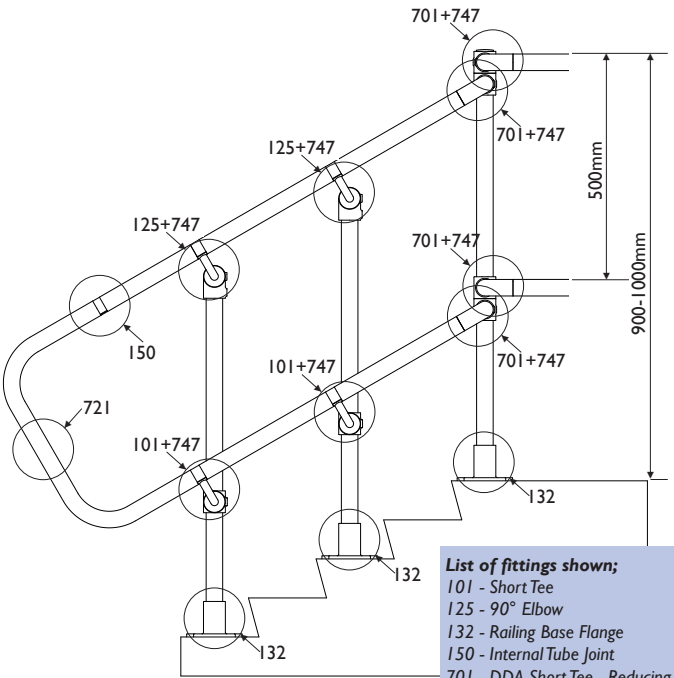
Typical DDAClamp handrail constuction on a level plain



List of fittings shown;
101 - Short Tee
125 - 90° Elbow
132 - Railing Base Flange
721 - DDA 180° Return
747 - DDA 90° Elbow

Construction

Typical DDAClamp handrail constuction on steps



List of fittings shown;
101 - Short Tee
125 - 90° Elbow
132 - Railing Base Flange
150 - Internal Tube Joint
701 - DDA Short Tee - Reducing
721 - DDA 180° return
747 - DDA 90° Elbow

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Handrailing Systems

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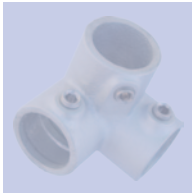
2012



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