Orbital fasteners .co.uk

FREE NEXT DAY DELIVERY TO LONDON ON ORDERS OVER £20+VAT

FREE NATIONAL DELIVERY ON ORDERS OVER £50 +VAT

HANDRAIL SYSTEM

01923 777777

The Handrail System consists of tubes & fittings that are fully compatible with popular systems such as Kee Klamp.

The tubular fittings offer a safe and simple solution to build many different types of lightweight tubular structures to your own size and specification.

Handrail System is a range of fittings manufactured from malleable iron to BS EN 1562:1997 & Ductile iron to BS EN 1563:1997 these fittings require **no welding drilling or special tools**.
A recessed set screw, tightened by the hexagon key, firmly locks the pipe into the fittings.
Fittings will support a **maximum load of upto 900Kg** when tightened to a torque of 39Nm.

GRP Plastic Handrail

Roof Edge Protection

Advantages:

- ✓ Durable galvanised finish
- ✓ All core products TUV tested and approved
- ✓ No special tools or labour required

The DDA Range

Orbital Fasteners Ltd, Olds Approach, Tolpits Lane, Watford, Herts WD18 9XT

Opening Times Monday - Thursday *7.30am - 5.30pm* Friday *7.30am - 5.00pm*

Plastic Scaffold End Cap

Yellow plastic end cap for size 48.30mm 8(G40) standard scaffold or hand rail tube.

Per 100	
1+	£5.28
200+	£4.40
600+	£3.96

3201555

Tube size 6(G25) B34	Tube size 7(G32) C42	Tube size 8(G40) D48
33.70mm	42.40mm	48.30mm

Steel Tube

Steel tube to suit Fast Clamp fittings. Hot dipped galvanised finish, 3.2M

(Kee Klamp compatible)

3.2M Steel Tube

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £14.54	1+ £17.52	1+ £19.97
10+ £12.12	10+ £14.60	10+ £16.64
20+ £10.91	20+ £13.14	20+ £14.98
3201550	3201551	3201552

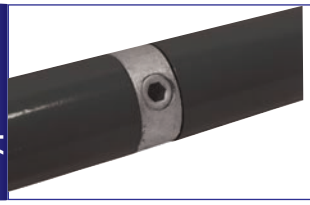
Type C00

The sleeve joint will provide an inline joint between two tubes

C00-149 (Kee Klamp compatible 14)

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £2.58	1+ £3.50	1+ £3.47
30+ £2.15	20+ £2.92	20+ £2.89
60+ £1.94	40+ £2.63	40+ £2.60
3201700	3201710	3201720

Type C01

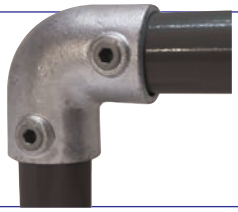


The expanding connector is designed to supply an inline joint between two tubes

C01-150 (Kee Klamp compatible 18)

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £2.54	1+ £3.26	1+ £4.00
50+ £2.11	25+ £2.71	25+ £3.33
100+ £1.90	50+ £2.44	50+ £3.00
3201730	3201740	3201750

Type C02



The 90° elbow will provide a joint between two tubes at right angles to each other

C02-125 (Kee Klamp compatible 15)

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £2.68	1+ £3.74	1+ £4.46
25+ £2.24	20+ £3.11	15+ £3.72
50+ £2.01	40+ £2.80	30+ £3.35
3201760	3201770	3201780

Type C03

The short tee is designed to join two tubes at right angles to each other

C03-101 (Kee Klamp compatible 10)

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £2.28	1+ £3.18	1+ £3.70
25+ £1.90	25+ £2.65	20+ £3.08
50+ £1.71	50+ £2.39	40+ £2.77
3201790	3201800	3201810

Type C04

90° Long tee will provide a butt joint between two tubes at right angles

C04-104 (Kee Klamp compatible 25)

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £3.72	1+ £5.22	1+ £6.00
20+ £3.10	15+ £4.35	10+ £5.00
40+ £2.79	30+ £3.91	20+ £4.50
3201820	3201830	3201840

Type C05

The variable elbow is designed to make joints at an angle of between 105° & 165°.

C05-124 (Kee Klamp compatible 55)

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £4.40	1+ £5.84	1+ £7.33
25+ £3.67	20+ £4.86	15+ £6.11
50+ £3.30	40+ £4.38	30+ £5.50
3201850	3201860	3201890

Type C06

Spiggot same size as tube

The internal tee joint is designed to provide an angled joint between a tube & other fittings. A very simple solution for inclined handrail & mid-rails.

C06-147 (Kee Klamp compatible 114)

6 (G25)	7 (G32)	8 (G40)
Per 1	Per 1	Per 1
1+ £3.18	1+ £4.56	1+ £4.77
35+ £2.65	25+ £3.80	20+ £3.98
70+ £2.39	50+ £3.42	40+ £3.58
3201900	3201910	3201920

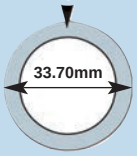
ALL PRICES ARE SUBJECT TO VAT AND AVAILABILITY

Fatmax Xtreme Magnetic Level

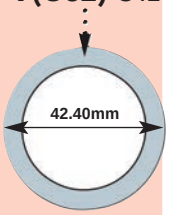
V shaped metal grove & magnets make this a favourite for scaffold & handrail errectors. Adjustable dial/vial for setting handrail angles.

250mm
Per 1
£15.91
5016125

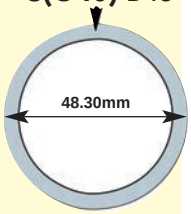
Tube size **6(G25)** B34



Tube size **7(G32)** C42



Tube size **8(G40)** D48



Type C07

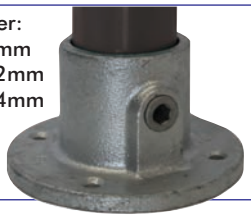
The 45° Tee is used as a bracing & strut component for strengthening structures.

C07 (Kee Klamp compatible 12)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£4.37	1+	£6.21	1+	£7.43
30+	£3.65	30+	£5.18	30+	£6.19
60+	£3.28	60+	£4.66	60+	£5.57
	3201921		3201922		3201923

Type C11

Disc diameter:
6(G25)=89mm
7(G32)=102mm
8(G40)=114mm



Round **base flange** with countersunk holes. For wall or base fixing. Mounting holes 7mm

C11-131 (Kee Klamp compatible 61)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£2.81	1+	£3.48	1+	£4.75
25+	£2.34	20+	£2.90	15+	£3.96
50+	£2.11	40+	£2.61	30+	£3.56
	3201950		3201960		3201970

Type C12

Standard railing flange provides a base for railings.
Mounting holes 14mm

C12-132 (Kee Klamp compatible 62)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£4.73	1+	£5.71	1+	£7.46
15+	£3.94	10+	£4.76	10+	£6.22
30+	£3.55	20+	£4.28	20+	£5.60
	3201980		3201990		3202000

Type C13

Hole size: All 14mm

The railing vertical side support is designed to provide a base for railings and other structures that need a side mounted fixing.

C13-144 (Kee Klamp compatible 64)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£6.24	1+	£8.25	1+	£9.79
15+	£5.20	10+	£6.87	10+	£8.16
30+	£4.68	20+	£6.19	20+	£7.34
	3202010		3202020		3202030

Type C14

Hole size: All 18mm

The railing horizontal side support is designed to provide a base for railings and other structures that need a side mounted fixing.

C14 (Kee Klamp compatible 65)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£7.43	1+	£9.44	1+	£10.58
15+	£6.19	10+	£7.87	5+	£8.82
30+	£5.57	20+	£7.08	10+	£7.94
	3202040		3202050		3202060

Type C15

Side support will provide a base for railings that need a side mounted fixing. Mounting holes 11mm

C15-146 (Kee Klamp compatible 68)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£4.68	1+	£6.85	1+	£8.05
15+	£3.90	15+	£5.71	15+	£6.71
30+	£3.51	30+	£5.14	30+	£6.04
	3202070		3202080		3202090

Type C16

Rail Support for securing handrail tube to a wall.
Mounting holes 9mm

C16-143 (Kee Klamp compatible 70)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£2.93	1+	£4.22	1+	£4.94
25+	£2.44	25+	£3.52	20+	£4.12
50+	£2.20	50+	£3.17	40+	£3.71
	3202100		3202110		3202120

Type C17

Depth: 130mm

The ground socket is designed to provide a base that can be cast into the ground to support a post.

C17-134 (Kee Klamp compatible 66)

6 (G25) Per 1		7 (G32) Per 1		8 (G40) Per 1	
1+	£9.89	1+	£18.70	1+	£19.39
5+	£8.24	5+	£15.58	5+	£16.16
10+	£7.42	10+	£14.02	10+	£14.54
	3202130		3202140		3202150

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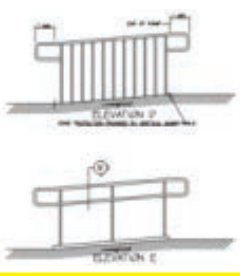
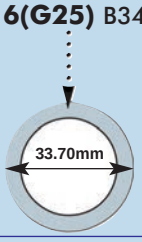
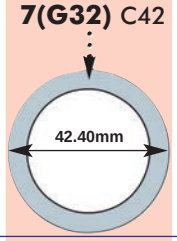
Call: 01923 777 777

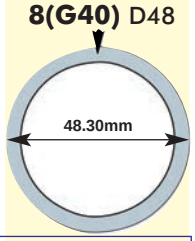




Tube size **6(G25)** B34



Tube size **7(G32)** C42



Tube size **8(G40)** D48

Type C18

Base flange with integrated toeboard mounting points fitting
Hole size: 11mm
Slot size: 31x11mm

C18 (Kee Klamp compatible 69)

7 (G32)		8 (G40)	
Per 1		Per 1	
1+	£12.01	1+	£12.94
5+	£10.01	5+	£10.78
10+	£9.01	10+	£9.71
3201929		3201930	

Type C20

3 way 90° elbow will provide a neat corner for the upper rail of guard rail

C20-128 (Kee Klamp compatible 20)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£3.62	1+	£5.54	1+	£6.68
20+	£3.02	15+	£4.62	10+	£5.57
40+	£2.72	30+	£4.15	20+	£5.01
3202160		3202170		3202180	

Type C21

90° Corner. Upright will pass through the fitting

C21-116 (Kee Klamp compatible 21)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£3.08	1+	£4.35	1+	£4.89
50+	£2.57	25+	£3.62	15+	£4.08
100+	£2.31	50+	£3.26	30+	£3.67
3202190		3202200		3202210	

Type C22

90° Two socket cross provides the mid-rail joint for handrail. Upright passes through the fitting

C22-119 (Kee Klamp compatible 26)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£3.33	1+	£4.07	1+	£5.22
25+	£2.78	15+	£3.40	15+	£4.35
50+	£2.50	30+	£3.06	30+	£3.91
3202220		3202230		3202240	

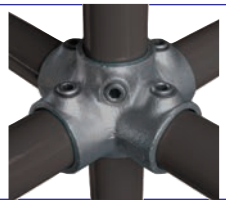
Type C23

Side outlet tee provides a 3 way mid-rail joint for handrail upright passes through the fitting

C23-176 (Kee Klamp compatible 35)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£4.30	1+	£5.94	1+	£6.66
25+	£3.58	15+	£4.95	10+	£5.55
50+	£3.22	30+	£4.45	20+	£4.99
3202250		3202260		3202270	

Type C24



Four socket cross, the upright passes through the fitting

C24-158 (Kee Klamp compatible 40)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£6.29	1+	£8.77	1+	£9.29
20+	£5.24	10+	£7.31	10+	£7.74
40+	£4.71	20+	£6.58	20+	£6.97
3202280		3202290		3202300	

Type C25

The short tee swivel fitting will allow corner joints of any angle between 90° & 180° (often used in pairs)

C25-148 (Kee Klamp compatible 19)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£3.18	1+	£4.07	1+	£4.20
40+	£2.65	25+	£3.40	20+	£3.50
80+	£2.39	50+	£3.06	40+	£3.15
3202310		3202320		3202330	

Type C28

The adjustable 2 socket cross fitting will accommodate any rake angle from 30° to 45°.

C28-130 (Kee Klamp compatible 30)

7 (G32)		8 (G40)	
Per 1		Per 1	
1+	£8.70	1+	£10.21
10+	£7.25	10+	£8.51
20+	£6.52	20+	£7.66
3202350		3202360	

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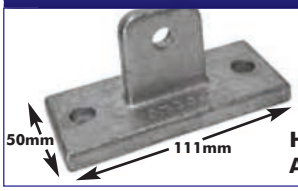
Type C10G

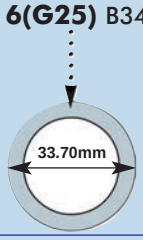
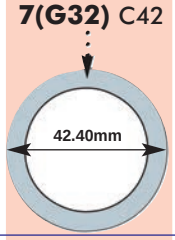
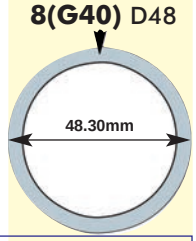


Hole size: All 10mm

Used in conjunction with a C36G type fitting to make a C46G type base swivel combination.

Swivel Base	Per 1
1+	£2.61
30+	£2.18
60+	£1.96

3201940

Tube size 6(G25) B34	Tube size 7(G32) C42	Tube size 8(G40) D48
		

Type C29

The adjustable short tee fitting will accommodate any rake angle from 30° to 60°

C29-129 (Kee Klamp compatible 29)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £3.14	1+ £4.32	1+ £5.06
25+ £2.62	15+ £3.60	15+ £4.22
50+ £2.36	30+ £3.24	30+ £3.80
3202370	3202380	3202390

Type C30

The Collar fitting can be used to support the C03 fitting when the latter is used as a hinge.

C30-179 (Kee Klamp compatible 75)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £1.49	1+ £1.64	1+ £1.82
80+ £1.24	80+ £1.37	60+ £1.51
160+ £1.12	160+ £1.23	120+ £1.36
3202400	3202410	3202420

Type C31

This fitting is designed as a **gate eye** for light weight gates.
Hole size: All 11mm

C31-138 (Kee Klamp compatible 78)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £2.24	1+ £2.39	1+ £2.61
50+ £1.87	70+ £1.99	50+ £2.17
100+ £1.68	140+ £1.79	100+ £1.96
3202430	3202440	3202450

Type C32

The fitting is designed as a **gate hinge** for light weight gates. Pin size:10mm

C32-140 (Kee Klamp compatible 83)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £2.51	1+ £2.66	1+ £2.88
50+ £2.09	80+ £2.22	40+ £2.40
100+ £1.88	160+ £1.99	80+ £2.16
3202460	3202470	3202480

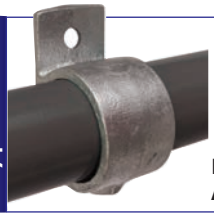
Type C33

The Hook fitting is designed to provide an attachment for chain & netting etc

C33-182 (Kee Klamp compatible 76)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £1.99	1+ £2.36	1+ £2.63
75+ £1.66	65+ £1.97	40+ £2.19
150+ £1.49	130+ £1.77	80+ £1.98
3202490	3202500	3202510

Type C34



Hole size: All 6mm

The Fixing Pad is designed to provide an attachment for flat sheets or board. It may also be used as a gate stop.

C34-199 (Kee Klamp compatible)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £1.59	1+ £1.99	1+ £2.36
80+ £1.33	40+ £1.66	35+ £1.97
160+ £1.19	80+ £1.49	70+ £1.77
3202520	3202530	3202540

Type C36F

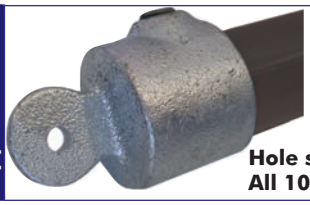
Hole size: All 10mm

The Female Swivel. It can be used with the C10G, C35, C37 or C38 male swivel fittings.

C36F-173F (Kee Klamp compatible F50)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £2.01	1+ £2.68	1+ £3.40
40+ £1.68	25+ £2.24	25+ £2.84
80+ £1.51	50+ £2.01	50+ £2.55
3202580	3202600	3202620

Type C36M



Hole size: All 10mm

The Male Swivel is designed as part of the swivel combination group of fittings. It can be used with C36F fittings.

C36M (Kee Klamp compatible M50)

6 (G25) Per 1	7 (G32) Per 1	8 (G40) Per 1
1+ £1.94	1+ £2.36	1+ £3.26
40+ £1.62	30+ £1.97	25+ £2.71
80+ £1.45	60+ £1.77	50+ £2.44
3202590	3202610	3202630

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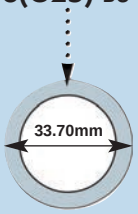
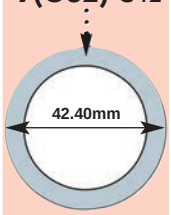
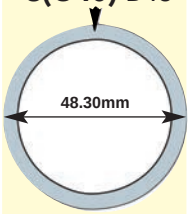
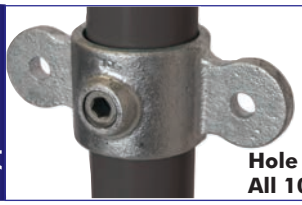
Spare Screws C60

1/4" BSP For G25 fittings		3/8" BSP For G32 & G40 fittings	
Per 1		Per 1	
1+	£0.42	1+	£0.45
10+	£0.35	10+	£0.37
20+	£0.31	20+	£0.33
3203175		3203176	

Tube size 6(G25) B34	Tube size 7(G32) C42	Tube size 8(G40) D48
		

Type C37M



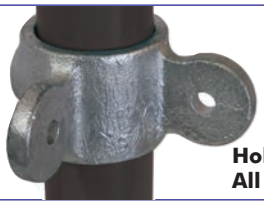
Hole size: All 10mm

The Double Male Swivel. It can be used with two C36 female swivel fittings.

C37M-167M (Kee Klamp compatible M51)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£2.61	1+	£2.78	1+	£3.13
40+	£2.18	25+	£2.32	30+	£2.61
80+	£1.96	50+	£2.09	60+	£2.35
3202640		3202650		3202660	

Type C38M



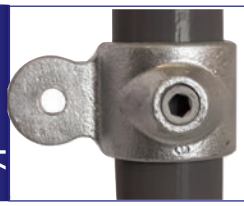
Hole size: All 10mm

The 90° Corner Male swivel. It can be used with two C36 female swivel fittings to make a corner combination fitting.

C38M-168M (Kee Klamp compatible M52)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£3.33	1+	£3.55	1+	£3.60
45+	£2.77	40+	£2.96	35+	£3.00
90+	£2.50	80+	£2.66	70+	£2.70
3202670		3202680		3202690	

Type C35M



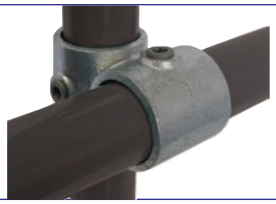
Hole size: All 10mm

The Male Swivel, can be used on its own for use with a shackle and chain or with the C36 female swivel to mount rails at any angle for slopes.

C35M-173M (Kee Klamp compatible M50)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£1.86	1+	£2.06	1+	£2.44
50+	£1.55	40+	£1.72	30+	£2.03
100+	£1.40	80+	£1.55	60+	£1.83
3202550		3202560		3202570	

Type C40



Designed to give a **90° crossover joint**. Upright passes through both

C40-161 (Kee Klamp compatible 45)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£2.54	1+	£3.33	1+	£3.95
40+	£2.12	25+	£2.77	15+	£3.29
80+	£1.91	50+	£2.50	30+	£2.96
3202730		3202740		3202750	

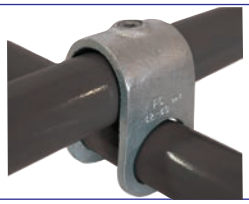
Type C41

The clamp on tee is designed to allow a new tube to be joined to an existing structure.

C41-135 (Kee Klamp compatible 16)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£5.28	1+	£5.72	1+	£6.56
30+	£4.40	25+	£4.76	20+	£5.46
60+	£3.96	50+	£4.29	40+	£4.92
3202760		3202770		3202780	

Type C42



The clamp on crossover is designed to allow a new tube to be joined to an existing structure.

C42-160 (Kee Klamp compatible 17)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£3.06	1+	£4.05	1+	£5.17
45+	£2.55	30+	£3.37	20+	£4.31
90+	£2.29	60+	£3.04	40+	£3.88
3202790		3202800		3202810	

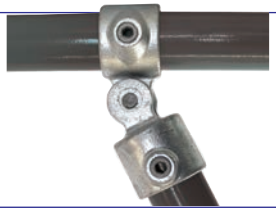
Type C43

The combination socket is designed for racking & similar systems to allow a crossover to be combined with a cross tie.

C43-165 (Kee Klamp compatible 46)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£4.00	1+	£5.33	1+	£6.46
25+	£3.33	25+	£4.44	15+	£5.38
50+	£3.00	50+	£4.00	30+	£4.85
3202820		3202830		3202840	

Type C45



Single swivel angle will provide an angled tee between two tubes

C45-173 (Kee Klamp compatible 50)

6 (G25)		7 (G32)		8 (G40)	
Per 1		Per 1		Per 1	
1+	£4.52	1+	£5.29	1+	£6.46
20+	£3.77	15+	£4.41	10+	£5.38
40+	£3.39	30+	£3.97	20+	£4.84
3202850		3202860		3202890	

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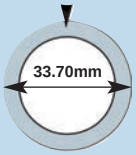
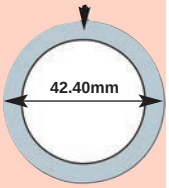
Hex Head Screwdrivers T-Handle

6x188mm 6 (G25)	Per 1	8x223mm 7(G32) 8(G40)	Per 1
1+	£4.07	1+	£5.76
3+	£3.84	3+	£5.44
5+	£3.62	5+	£5.12
	4994206		4994208

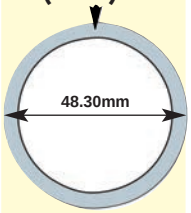
Tube size **6(G25)** B34



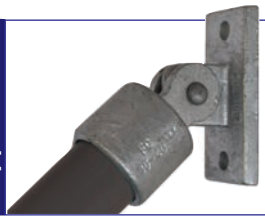
Tube size **7(G32)** C42



Tube size **8(G40)** D48



Type C46



Base swivel combination will provide an angled wall or floor mount. Mounting holes 9mm

C46-169 (Kee Klamp compatible 58)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£4.89	1+	£5.79	1+	£6.53
10+	£4.08	10+	£4.83	10+	£5.44
20+	£3.67	20+	£4.34	20+	£4.90
	3202900		3202910		3202920

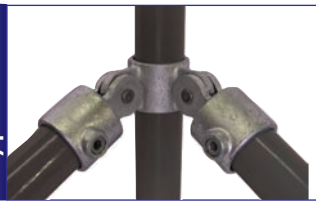
Type C47

The double swivel combination is designed to provide an in line angled joint at a stair handrail. Pre assembled

C47-167 (Kee Klamp compatible)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£8.27	1+	£9.37	1+	£10.43
10+	£6.89	10+	£7.81	5+	£8.69
20+	£6.20	20+	£7.02	10+	£7.82
	3202930		3202940		3202950

Type C48

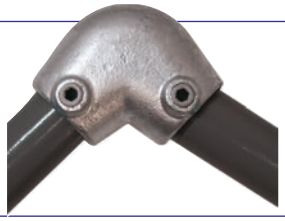


The 90° Corner Swivel Combination. Pre assembled

C48-168 (Kee Klamp compatible)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£8.27	1+	£9.19	1+	£11.63
10+	£6.89	5+	£7.66	5+	£9.69
20+	£6.20	10+	£6.89	10+	£8.72
	3202960		3202970		3202980

Type C50

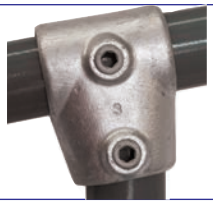


The Slope Elbow 0° to 11° is designed to provide a elbow joint for use on ramps.

C50-154 (Kee Klamp compatible 87)

7 (G32)	Per 1	8 (G40)	Per 1
1+	£9.12	1+	£7.18
15+	£7.60	10+	£5.98
30+	£6.84	20+	£5.38
	3203019		3203020

Type C51

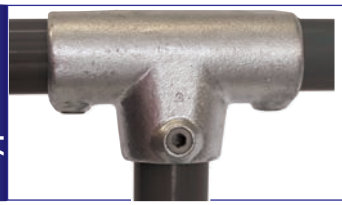


The Slope Short Tee 0° to 11° is designed to provide a T joint between two tubes for use on ramps.

C51-153 (Kee Klamp compatible 86)

7 (G32)	Per 1	8 (G40)	Per 1
1+	£7.06	1+	£5.52
20+	£5.89	15+	£4.60
40+	£5.30	30+	£4.14
	3203029		3203030

Type C52



The slope long tee 0° to 11° is designed to provide a T joint between two tubes for use on ramps.

C52-155 (Kee Klamp compatible 88)

7 (G32)	Per 1	8 (G40)	Per 1
1+	£8.88	1+	£8.05
10+	£7.40	10+	£6.71
20+	£6.66	20+	£6.04
	3203039		3203040

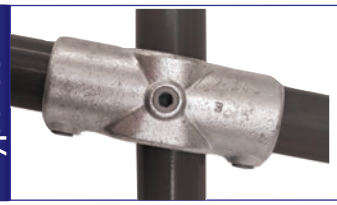
Type BC53

Adjustable Elbow is designed as a variable angle in-line connection, adjustable through 202°

BC53 (Kee Klamp compatible)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£5.69	1+	£5.81	1+	£7.08
30+	£4.74	23+	£4.84	19+	£5.90
60+	£4.27	46+	£4.36	38+	£5.31
	3203400		3203410		3203420

Type C54



The slope 2 socket cross 0° to 11° is designed to provide a joint for the midrail for use on ramps.

C54-156 (Kee Klamp compatible 89)

7 (G32)	Per 1	8 (G40)	Per 1
1+	£8.19	1+	£8.05
15+	£6.83	10+	£6.71
30+	£6.15	20+	£6.04
	3203059		3203060

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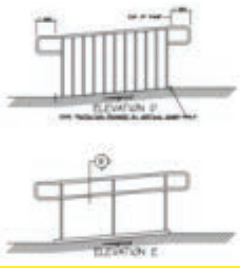
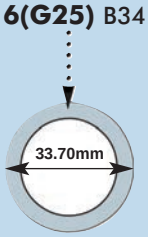
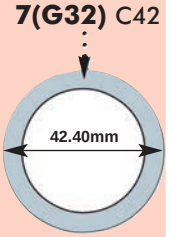
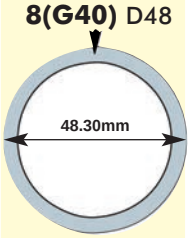
Call: 01923 777 777



	Tube size 6(G25) B34	Tube size 7(G32) C42	Tube size 8(G40) D48
			

Type C53

Slope Base 0° to 11° will provide a base for use on ramps.
Mounting holes 14mm

C53-152 (Kee Klamp compatible 67)

7 (G32)	Per 1	8 (G40)	Per 1
1+	£8.88	1+	£8.82
10+	£7.40	10+	£7.35
20+	£6.66	20+	£6.61
3203049		3203050	

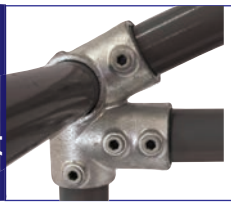
Type C55

A four way socket fitting used to construct the **ridge** of a roof structure.

C55 (Kee Klamp compatible)

8 (G40)	Per 1
1+	£11.63
10+	£9.69
20+	£8.72
3203070	

Type C56



A four way socket fitting used to construct the **eaves** of a roof structure.

C56 (Kee Klamp compatible)

8 (G40)	Per 1
1+	£9.56
10+	£7.97
20+	£7.17
3203080	

Type C65P

Plastic Plug to fit open ended tubes. "Knock in to Fit"

C65P-133 (Kee Klamp compatible 77)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£0.27	1+	£0.42	1+	£0.42
100+	£0.23	100+	£0.35	100+	£0.35
200+	£0.21	200+	£0.32	200+	£0.32
3203120		3203130		3203140	

Type C65G

Galvanised Steel Plug.
Fits only 3.2mm wall thickness tubes

C65G (Kee Klamp compatible 81)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£2.40	1+	£4.18	1+	£4.93
50+	£2.00	50+	£3.48	50+	£4.11
100+	£1.80	100+	£3.13	100+	£3.70
3203145		3203146		3203147	

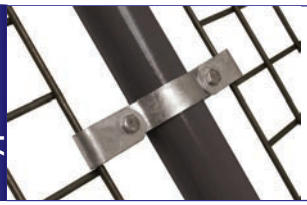
Type C66

The Single Mesh Clip is designed to provide a fixing for standard mesh panels.

C66-170 (Kee Klamp compatible 81)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£0.94	1+	£1.07	1+	£1.07
10+	£0.79	10+	£0.89	10+	£0.89
20+	£0.71	20+	£0.80	20+	£0.80
3203150		3203160		3203170	

Type C67

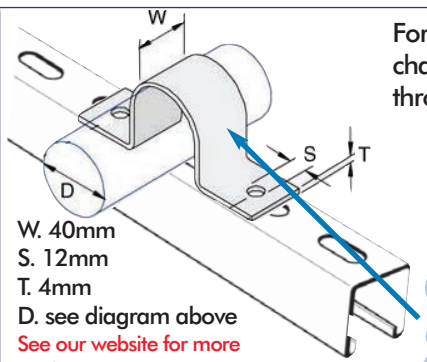


The double mesh clip is designed to provide a fixing for standard mesh panels.

C67-171 (Kee Klamp compatible 82)

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£1.54	1+	£1.56	1+	£1.62
10+	£1.29	10+	£1.30	10+	£1.35
20+	£1.16	20+	£1.17	20+	£1.21
3203180		3203190		3203200	

Galvanised Saddle Clamp



W. 40mm
S. 12mm
T. 4mm
D. see diagram above
See our website for more application images

For connecting handrail tubes to timber or channel system. Hole spacings allow bolting through slotted channel sections.

Galvanised Saddle Clamps

6 (G25)	Per 1	7 (G32)	Per 1	8 (G40)	Per 1
1+	£2.64	1+	£2.76	1+	£2.88
20+	£2.20	20+	£2.30	20+	£2.40
100+	£1.98	100+	£2.07	100+	£2.16
3201600		3201610		3201620	

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GUARDRAIL

Guardrail is the most common form of structure that is built with **Handrail** fittings and requires careful consideration to meet required design loadings. Design loads are usually specified, however if unsure BS 6399 and BS 6180 are good reference documents.

The loading capacity of any guardrail structure is determined principally by the diameter, thickness and frequency of its uprights. The table below contains recommendations to safely meet the stated design loads based on maximum permissible bending moment of the upright tube.

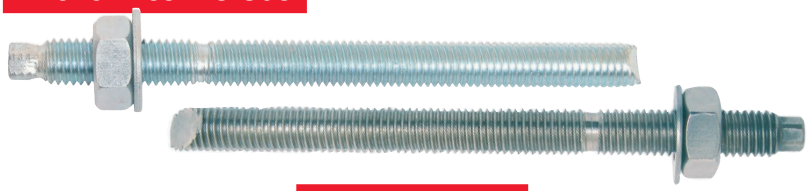
Use this table to work out the safe working load and upright spacing:

Design Load	Tube diameter		
	33.7x3.2mm 6(G25)	42.4x3.2mm 7(G32)	48.3x3.2mm 8(G48)
	Maximum Upright Centres (mm)		
900 mm high			
360 N/m	814	1369	1828
740 N/m	396	666	889
1500 N/m	195	329	439
1000 mm high			
360 N/m	732	1232	1645
740 N/m	356	599	800
1500 N/m	176	296	395
1100 mm high			
360 N/m	666	1120	1496
740 N/m	324	545	728
1500 N/m	160	269	359

YOU MAY ALSO NEED...

Hexagon Head Multi-Substrate Anchors (Screw Bolts)

Anchor Resin Studs



Through Bolts

Sleeve Anchors

Nylon Plugs

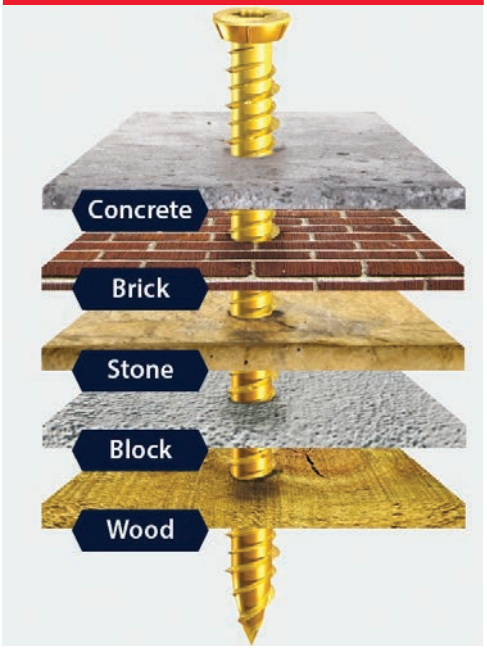
Hexagon Head Coach Screws

Self Tapper & Self Drill Screws

Masonry Drill Bits

SDS Drill Bits

Timco Multi-Fix Concrete Screws



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High strength & stability **Easy to install** **Lightweight** **Low thermal conductivity**

Corrosion, chemical & weather resistant

Handrail tube 5 Metre* 50mm/OD x 40mm/ID

TU550I

	each
1+	£72.00
10+	£60.00
20+	£54.00

3204280

3204290

Universal 3 way tee connector (In three pieces)

MH3WU

	each
1+	£19.75
10+	£16.46
30+	£14.81

3204000

3204010

3 way tee connector (In two halves)

MH3W

	each
1+	£4.92
10+	£4.10
30+	£3.69

3204020

3204030

4 way cross connector (In two halves)

MH4W

	each
1+	£5.78
10+	£4.82
30+	£4.34

3204035

3204040

Universal Universal 4 way connector (In four pieces)

MH4WU

	each
1+	£35.04
10+	£29.20
30+	£26.28

3204050

3204060

90 degree elbow (In two halves)

MH90E

	each
1+	£7.46
10+	£6.22
30+	£5.60

3204070

3204080

120 degree right angle bend (In two halves)

MHA 120E

	each
1+	£7.63
10+	£6.36
30+	£5.72

3204090

3204100

60 degree 3 way tee (In two halves)

MHA3E

	each
1+	£5.59
10+	£4.66
30+	£4.19

3204110

3204120

60 degree 4 way tee (In two halves)

MHA4E

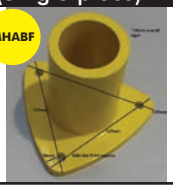
	each
1+	£7.27
10+	£6.06
30+	£5.45

3204130

3204140

Triangular base foot (Single piece) 9mm bolt holes

MHABF



	each
1+	£8.95
20+	£7.46
60+	£6.71

3204150

Round hole base foot (Single piece) 13mm bolt holes

MHBF

	each
1+	£9.02
10+	£7.52
30+	£6.76

3204160

3204170

5mm Neoprene foot pad Suits MHBF base foot

MHNFP

	each
1+	£2.18
10+	£1.82
30+	£1.84

3204175

3 way corner (In two halves)

MH-CORNER 3W

	each
1+	£13.07
10+	£10.88
30+	£9.79

3204180

3204190

4 way corner (In two halves)

MH-CORNER 4W

	each
1+	£15.65
10+	£13.04
30+	£11.74

3204200

3204210

Right angle bend (In two halves)

MHRAB

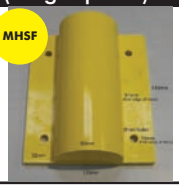
	each
1+	£10.44
10+	£8.70
30+	£7.83

3204220

3204230

Side fit base (Single piece) 7mm bolt holes

MHSF



	each
1+	£9.31
10+	£7.76
30+	£6.98

3204240

3204250

Universal joint connector (In two halves)

MHUJ

	each
1+	£19.01
10+	£15.84
30+	£14.26

3204260

3204270

Spigot internal coupler

SPIGOT

M6x45 button socket screws to be used with the spigot.

	each
1+	£6.91
10+	£5.76
30+	£5.18

3204300

3204310

Button socket screw Stainless Steel A2

M6x45	Per 100
1+	£15.04
200+	£9.40
1000+	£8.46

2051251

M6x60	Per 100
1+	£22.05
200+	£13.78
1000+	£12.40

2051262

M6 flange rivet nut 0.50 - 3.0 Stainless Steel

	Per 1000
1+	£270.77
250+	£225.64
1250+	£203.07

1641520

Tube End cap black

MHTC

	each
1+	£1.18
10+	£0.98
30+	£0.88

3204320

Fittings have to be drilled on site to enable button screws (7mm holes) & rivet nuts (9mm holes) to be installed.

*5 Metre sections may incur additional delivery charges & extended delivery time, this depends on your location & transport availability.

FLAT ROOF EDGE PROTECTION BARRIER

DEFENDER™
ROOF EDGE PROTECTION SYSTEMS

Counterweight 1M Long RE11P40SS & 2M Long RE11P40

The RE11P40 is a recycled PVC counterweight containing a C30G40 collar fitting and a choice of 1 or 2 metre tubes. The 25kg counterweights are fitted on each or every other post, maximum distance between counterweights - 4 metres. The counterweight is slim and deemed a low trip hazard.

1 Metre
RE11P40SS
Per 1
£90.92
3205030

2 Metre
RE11P40
Per 1
£95.59
3205020

Run End Counterweight 2M Long RE12P40

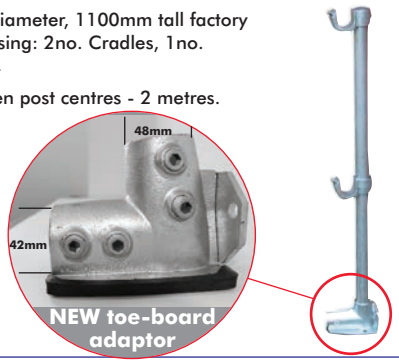
The RE12P40 is a run-end counterweight assembly used on all systems with a "free end". Containing 2no 25kg Recycled PVC counterweights, 2no C30G40 collar fittings, 1no C03G40 short tee fitting, 1no Solid 690mm bar and 1no 2 metre tube. This part is supplied loose for site assembly.

2 Metre
RE12P40
Per 1
£172.48
3205040

Upright Post 1100mm Tall RE00G40

The RE00T40 is a 48mm diameter, 1100mm tall factory assembled upright comprising: 2no. Cradles, 1no. Post base & 1no. End Cap.

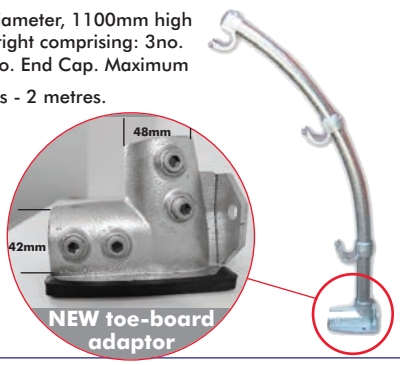
Maximum distance between post centres - 2 metres.



Upright Post
RE00G40
Per 1
£48.13
3205000

Curved Post 1100mm Tall RE00G40SS

The RE00T40SS is a 48mm diameter, 1100mm high curved factory assembled upright comprising: 3no. Cradles, 1no. Post base & 1no. End Cap. Maximum distance between post centres - 2 metres.



Curved Post
RE00G40SS
Per 1
£154.87
3205010

Sleeve Joint C00 Size 8 (G40)

The sleeve joint is designed to provide an in line joint between two tubes of the same diameter. Tube joints should be staggered i.e not in line vertially.
Requires 8mm hex Allen key.

Size 8 (G40)

Per 1	
1+	£3.47
20+	£2.89
40+	£2.60

3201720

90 Degree Elbow C02 Size 8 (G40)

The 90 degree elbow is designed to provide a joint between two tubes at right angles to each other.
Often used for railing ends & corners.
Requires 8mm hex Allen key.

Size 8 (G40)

Per 1	
1+	£4.46
15+	£3.72
30+	£3.35

3201780

Variable Elbow C05 Size 8 (G40)

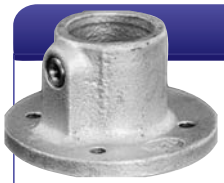
The Variable Elbow is designed to make joints at an angle of between 105deg & 165deg
Requires 8mm hex Allen key

Size 8 (G40)

Per 1	
1+	£7.33
15+	£6.11
30+	£5.50

3201890

Base Flange C11 Size 8 (G40)



Disc diameter: 114mm

The wall flange is designed to provide a positional wall or base fixing.
It is not recommended to use this fitting as a structural railing base.
Mounting holes 7mm.
Requires 8mm hex Allen key

Size 8 (G40)

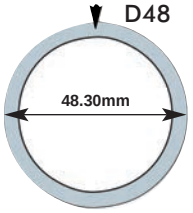
Per 1	
1+	£4.75
15+	£3.96
30+	£3.56

3201970

STEEL TUBE SIZE 40 (48.3mm) x 3.2M

Steel tube to suit Fast Clamp Fittings.
Hot dipped galvanised finish 3.2M

Size 8(G40)



Size 8 (G40)
48.3mmx3.2m

Per 1	
1+	£19.97
10+	£16.64
20+	£14.98

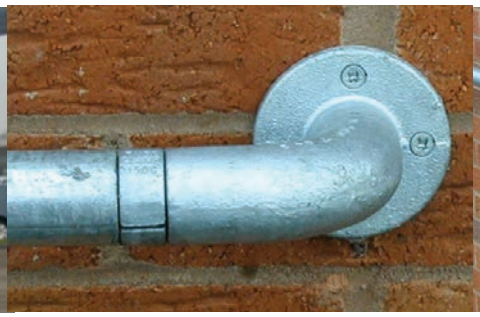
3201552

ALL PRICES ARE SUBJECT TO VAT AND AVAILABILITY

THE DDA RANGE

Designed to satisfy the requirements of Part 'M' of the buildings Regulations 2004

DDA is short for the Disability Discrimination Act. Our DDA system comprises of vertical 48.3mm 8(G40) tubes & 42.4mm 7(G30) tubes for the handrail. The system allows simple installation to any gradient.


ALL PRICES ARE SUBJECT TO VAT AND AVAILABILITY

Wall Bracket DDA03

Disc diameter: 90mm Suits 6mm screws

7 (G32)	Per 1
1+	£13.91
20+	£11.59
40+	£10.43

3203330

End Return DDA05

Disc diameter: 90mm Suits 6mm screws

7 (G32)	Per 1
1+	£14.61
20+	£12.17
40+	£10.95

3203350

Pozi Tritap Screws & Drill Bits

Used to connect handrail to brackets

M5x20 Pz2

Per 100
1+ £2.68
1000+ £1.34
5000+ £1.21

4985310

4.5x80mm

Per 1
1+ £1.87
10+ £1.56
30+ £1.40

1191120

90 Degree Bend DDA06

Connects to 7 (G32) steel tube.

7 (G32)	Per 1
1+	£18.36
15+	£15.30
30+	£13.77

3203360

Intermediate Bracket DDA04

Fits into DDA01 Suits 6mm screws

7 (G32)	Per 1
1+	£13.54
25+	£11.28
50+	£10.15

3203340

Internal Expanding Connector DDA07

7 (G32)	Per 1
1+	£3.26
25+	£2.71
50+	£2.44

3201740

Steel Tube

Note: 7G32 (top rail) & 8G40 (upright)

7 (G32)	Per 1
1+	£17.52
10+	£14.60
20+	£13.14

3201551

8 (G40)	Per 1
1+	£19.97
10+	£16.64
20+	£14.98

3201552

Plastic End Cap DDA08

7 (G32)	Per 1
1+	£0.42
100+	£0.35
200+	£0.32

3203130

8 (G40)	Per 1
1+	£0.42
100+	£0.35
200+	£0.32

3203140

Upright Connector DDA01

Note: Sockets are 7G32 (top rail) & 8G40 (upright)

Per 1
1+ £11.88
25+ £9.90
50+ £8.91

3203310

Upright Base C12

Standard railing flange provides a base for railings. Mounting holes 14mm

8 (G40)	Per 1
1+	£7.46
10+	£6.22
20+	£5.60

3202000

Handrail Connector DDA02

Fits into DDA01

7 (G32)	Per 1
1+	£12.40
25+	£10.33
50+	£9.30

3203320

Handrail Adjustable Bend DDA09

Use DDA07 to connect to 7 (G32) steel tube

7 (G32)	Per 1
1+	£24.74
20+	£20.62
40+	£18.56

3203390