



Brochure V1.1

A black and white photograph of a complex steel structure, likely a bridge or a large industrial building, viewed from a low angle looking up. The structure is composed of numerous steel beams and girders, creating a dense, geometric pattern. A thick red diagonal line runs from the top left towards the bottom right, partially obscuring the steel structure.

The Steelworks Specialists



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Aerial Mounts

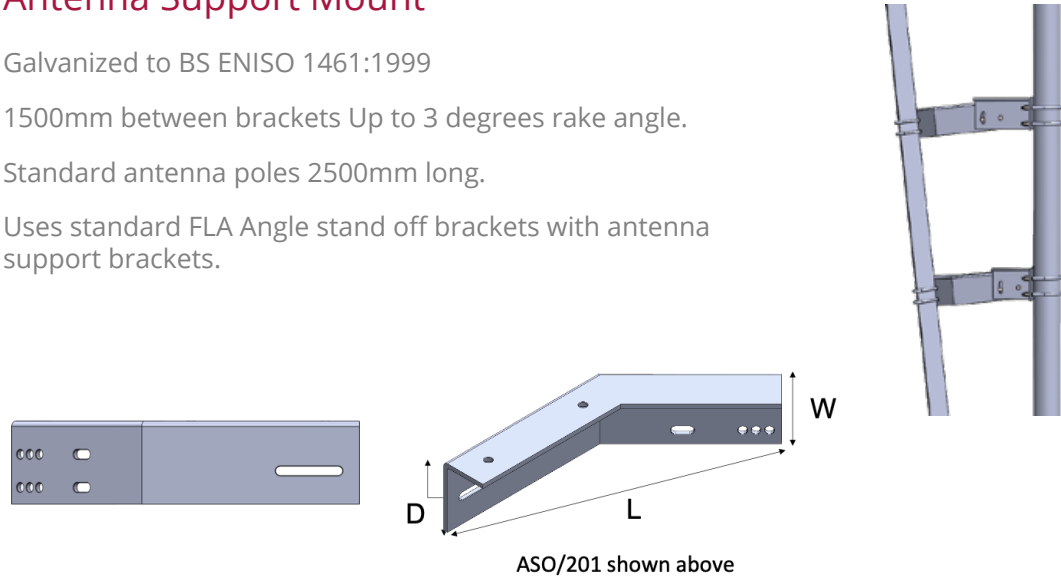
Antenna Support Mount

Galvanized to BS ENISO 1461:1999

1500mm between brackets Up to 3 degrees rake angle.

Standard antenna poles 2500mm long.

Uses standard FLA Angle stand off brackets with antenna support brackets.



Part No.	Series	L	W	D	Wt. Kg
3/ASO/101	1000	500	125	75	6.1
3/ASO/201	2000	560	125	75	6.6
3/ASO/301	3000	590	125	70	7.1
3/ASO/401	4000	635	75	130	7.5
3/ASM/001/B	ALL	180	150	140	3.0
3/ASM/001/T	ALL	260	150	140	4.0
3/AP/301/2500	ALL	-	-	-	14.15

Kit No.	Leg Series	Antenna Pole Dia.	Wt. Kg
4/ASM/1048	1000	48.3	29
4/ASM/1060	1000	60.3	34
4/ASM/1076	1000	76.1	48
4/ASM/1088	1000	88.9	52
4/ASM/1114	1000	114.3	61
4/ASM/2048	2000	48.3	39
4/ASM/2060	2000	60.3	43
4/ASM/2076	2000	76.1	50
4/ASM/2088	2000	88.9	54
4/ASM/2114	2000	114.3	63
4/ASM/3048	3000	48.3	40
4/ASM/3060	3000	60.3	44
4/ASM/3076	3000	76.1	52
4/ASM/3088	3000	88.9	56
4/ASM/3114	3000	114.3	64
4/ASM/4048	4000	48.3	41
4/ASM/4060	4000	60.3	44
4/ASM/4076	4000	76.1	54
4/ASM/4088	4000	88.9	58
4/ASM/4114	4000	114.3	6

Antenna Support Mount Type Vertical Pole

Material 8mm S355J2 BS EN 10025-2 Galvanized to BS ENISO 1461:1999 Use 12mm fixings.

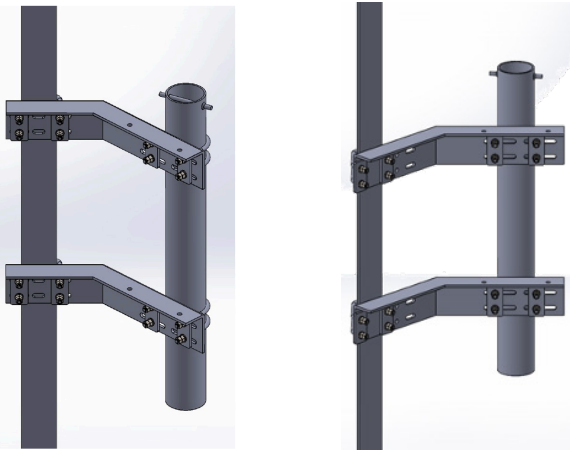
Mainly used on Angle tower legs.

Either suits tower leg range of 33.7-139.7mm or 100-220mm and both take 48.3-114.3 antenna pole.

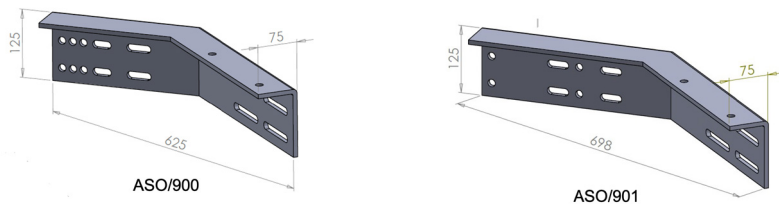
8mm Spreader Plates spread the load across the slots to make it stronger .

Can take up to 3° rake out.

Supplied as a kit (2 x brackets, 8 spreader plates, plus fixings) or individually. Order An- tenna Pole separately.



Kit No.	To suit Tower Leg	Wt. Kg
4/ASM/9000	33.7-139.7mm	18.0
4/ASM/9001	100-220mm	20.0



Part No.	Description	L	W	D	Wt. Kg
3/ASO/900	ASO Bracket 33.7-139.7 leg	625	125	75	7.5
3/ASO/901	ASO Bracket 100-220mm leg	700	125	75	9.5
3/PP/900	Profile Plate	100	50	0.8	0.3

Double Antenna Mount

Material 6mm Plate BSEN 10025-2004 Grade S355J2

Galvanized to BS ENISO 1461:1999

Takes 60.3Ø or 76.1Ø x 3000 antenna mount poles.

Antenna separation 750mm Provision for feeder attachment.

Long legged U bolts for antenna poles required. Order U/N bolts to suit tower leg size.

This versatile double antenna mount is suitable for any size of antenna.

The kit comes with 60.3Ø - 3 metre poles as standard, these can be changed to suit the size of antenna if required.

When used with our Universal Stand Off Assembly kit, it will ensure the antenna are vertical.

Kit No.	Wt. Kg				
4/DYM/01	71.91				

Part No.	L	W	D	Wt. Kg
3/DYM/01	915	135	60	10.0

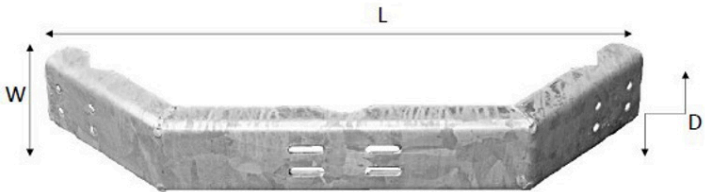


Double Cranked Channel Stand Off Kit

Heavy duty channel brackets with notch-outs to ensure pole stability

2.5m standoff pole & appropriate fixing supplied with each kit

Order U/N bolts separately to suit structure leg size.



Kit No.	Pole Separation	Leg size	Pole Dia	Pole Length	Wt. Kg
44DCM2502	800mm	60.3 to 114.3	60.3	2500	57
44DCM2503	800mm	60.3 to 114.3	76.1	2500	69
44DCM2512	1000mm	60.3 to 114.3	60.3	2500	61
44DCM2513	1000mm	60.3 to 114.3	76.1	2500	73



Double Straight Mount

Material 6mm Plate BSEN 10025-2004 Grade S355J2 Galvanized to BS ENISO 1461:1999

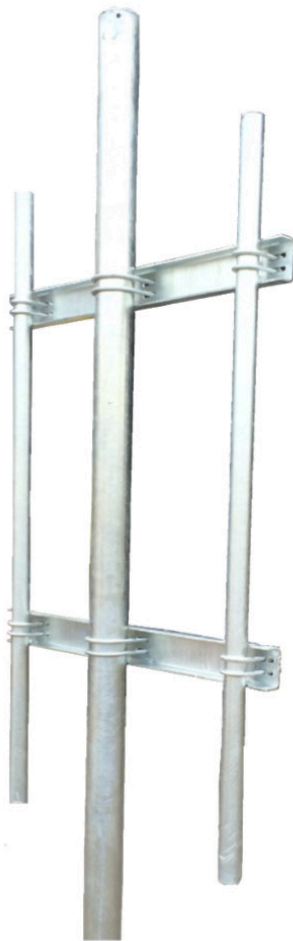
Takes 48.3Ø to 114.3Ø antenna mount poles Antenna separation 1 metre.

Suits up to and including 139.7 tower leg.

Typical Assembly-2 brackets and poles.

Bracket only. Order Antenna Pole and long leg U bolts.

Part No.	L	W	D	Wt. Kg
3/DSM/100	1200	120	50	10



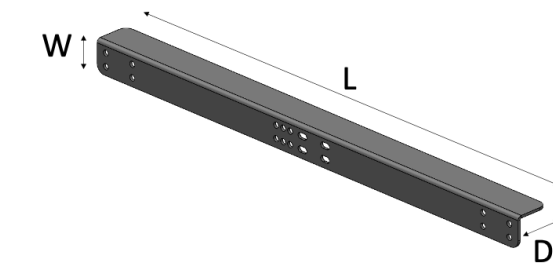
Double Standoff Assembly

Galvanized to BS ENISO 1461:1999 Designed to double up on existing antenna mounts.

Antenna separation 1070mm.

This versatile double antenna mount is suitable for any size of antenna. When used with our Universal Stand Off Assembly kit, this will ensure the antenna are vertical.

Suits 60.3 and 76.1 antenna poles. Order pole and fixings separately.



Part No.	L	W	D	Wt. Kg
30DSB1020	1200	95	65	8.7



Universal Vertical Stand Off Assembly

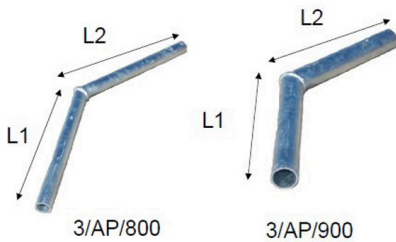
Galvanized to BS ENISO 1461:1999

76.1Ø cranked tubes for dish mounts as illustrated 48.3Ø cranked tubes for aerial fixings.

This unique innovation dish/aerial mount enables the mounting pole to be fitted vertically on structures with rakes up to 10.

This product is fitted on structures across the country. Specify length of antenna pole required and leg size to ensure correct fixings are included in the kit.

Kit No.	Cranked Arms	Antenna Pole
4/UVPM/1010	48.3	48.3
4/UVPM/3010	76.1	48.3
4/UVPM/3020	76.1	60.3
4/UVPM/3030	76.1	76.1
4/UVPM/3040	76.1	88.9
4/UVPM/3050	76.1	114.3



Part No.	Pole Dia	L1	L2	Wt Kg
3/AP/800	48.3	500	500	5.5
3/AP/850	60.3	500	500	7.0
3/AP/900	76.1	500	500	10.0
3/AP/900L	76.1	500	1000	12.75



Antenna Poles

Galvanized Antenna Poles

Hot Formed CHS S355J2H BS EN 10210

Galvanized to BS ENISO 1461 'T' Bar fitted on request.

All dimensions in millimetres (mm).

Lengths available in 500mm increments from 1m to 4m (+/-15mm).

However any length can be ordered and will be supplied trimmed from standard full length 7.5m stocks.

To order required length, suffix to appropriate Part No. i.e. 88.9 x 5.0 pole 5m long = 3/AP/304/5000

3.2 and 4.0 wall thickness tube available to order. Substitute the number 1 for 3.2 wall i.e. 3/AP/101/1000 and 2 for 4.0 wall i.e. 3/AP/201/1000

Weight Chart

	1000	1500	2000	2500	3000	3500	4000
48.3 x 5	5.66	8.49	11.32	14.15	16.98	19.81	22.64
60.3 x 5	7.23	10.85	14.46	18.80	21.69	25.31	28.92
76.1 x 5	9.30	13.95	18.60	23.25	27.90	32.55	37.20
88.9 x 5	10.90	16.35	21.80	27.25	32.70	38.15	43.60
114.3 x 5	14.30	21.45	28.60	35.75	42.90	50.05	57.20



Part No.	Tube Size
3/AP/301/...	48.3 x 5
3/AP/302/...	60.3 x 5
3/AP/303/...	76.1 x 5
3/AP/304/...	88.9 x 5
3/AP/205/...	114.3 x 5

Aluminium Tube

Aluminium Tube to BS1139 Material grade 6082-T6 Quote up to 6m long.
Quote length required.

Part No.	Tube Size	Metric (=)
2/AP/101A/....	1 29/32" x 7SWG	48.4 x 4.76
2/AP/102A/....	2 ½" x 3/16"	63.5 x 4.76
2/AP/103A/....	3" x 3/16"	76.2 x 4.76
2/AP/104A/....	3 ½" x ¼"	88.9 x 6.35



Extension Pole Socket

Heavy duty channel brackets with notch-outs to ensure pole stability

2.5m standoff pole & appropriate fixing supplied with each kit

Order U/N bolts separately to suit structure leg size.

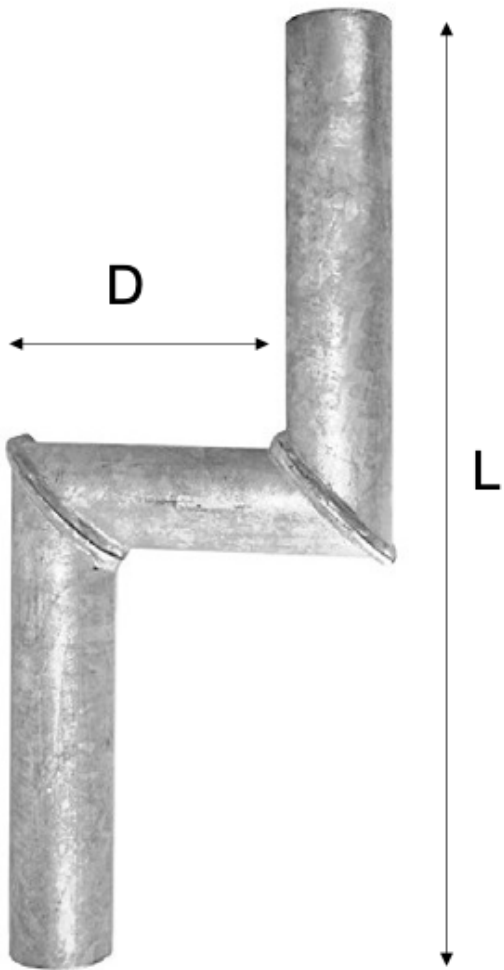
Part No.	Pole Size	Length	Socket Dia	Wt.Kg
4/PEX/3103	76.1	1000	90	13
4/PEX/4104	88.9	1000	114	16
4/PEX/5105	114.3	1000	140	21



Parallel Stand Off Poles

Material S355J2H BS EN 10210 -Galvanized to BS ENISO 1461
Enables poles to be attached in close proximity (200mm).

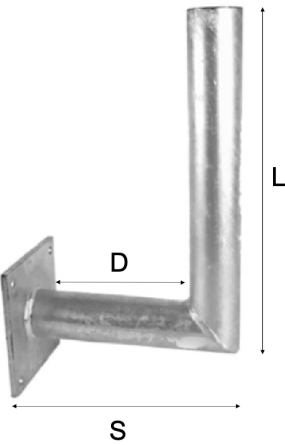
Part No.	Pole Dia	Series	L	D	Wt Kg
3/SOP/100	48.3	1000	648	200	3.4
3/SOP/200	60.3	1000	660	200	4.3
3/SOP/300	76.1	2000	676	200	6
3/SOP/400	88.9	2000	690	200	6.3
3/SOP/500	114.3	2000	714	200	9.1



Wall Mounting Pole

Material 10mm S355J2 BS EN 10025-2 & S355J2H BS EN 10210
Galvanized to BS ENISO 1461
Use 12mm fixings

Part No.	Pole Dia	Series	L	D	S	Wt Kg
3/WMP/76/500	76.1	500	240	330	9	3.4



Clamps and Brackets

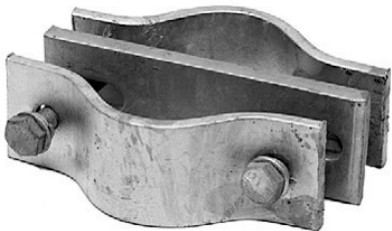
Aerial Parallel Clamps

Material 10mm S275JR BS EN 10025-2

Galvanized to BS ENISO 1461

The parallel clamp is commonly used for fixing vertical aerials to vertical poles or just pole to pole.

Kit No.	Tube Diameter	Wt Kg
4/AB/100	25-48	1.20
4/AB/201	40-60	1.40



4/AB/100 Kit comprises of:

Part No.	Description
3/AB/100	Parallel Clamp Half x2
3/AB/100/P	Centre Plate
2/BNW/10100/S	M10 x 100 BNW Set x2
2/GVF/001	Galv M10 Full Nut x2

4/AB/201 Kit comprises of:

Part No.	Description
3/AB/201	Parallel Clamp Half x2
3/AB/201/P	Centre Plate
2/BNW/10100/S	M10 x 100 BNW Set x2
2/GVF/001	Galv M10 Full Nut x2
2/GVF/003F	Galv M10 Flat Washer x2

Coupler Reducers

Reducers are fitted to aerials to increase their diameter to enable clamping in the couplers.

Material Aluminium 6063

Part No.	Inside Diameter	Wt Kg
2/TC/105	31.75	0.149
2/TC/106	38.1	0.109
2/TC/108	25.4	0.445



Tube Couplers

Drop forged* 'scaffold' fittings for 48.3 dia tube.

*2/TC/111 Pressed Steel



2/TC/101



2/TC/102



2/TC/103



2/TC/110



2/TC/111



2/TC/115

Part No.	Description	Wt Kg
2/TC/101	Double Coupler — clamps 48.3mm O.D. scaffold tubes at right angles (i.e. standards to ledgers) S.W.L. 6.25kN.	0.9
2/TC/102	Swivel Coupler — clamps 48.3mm O.D. scaffold tubes at any angle (i.e. façade, sectional or plan bracing) S.W.L. 6.25kN. EN74 CLASS B – SWL to BS5973.	1.2
2/TC/103	Half Coupler — effectively one half of a swivel coupler with a hole through the centre. EN74B. Supplied with M12 x 40 Countersunk grade 8.8 bolt nut & washer.	0.5
2/TC/110	Joint-pin — internal end to end vertical connection of 48.3mm O.D. scaffold tubes.	1.1
2/TC/111	Tube Joint sleeve. Pressed steel clamp to join 2 tubes	1.0
2/TC/115	Girder Coupler (Gravlok) — used in pairs for right angle clamping of 48.3mm O.D. scaffold tubes to steel beam flanges up to 45mm thick. BS1139 Part 2 1982 – SWL to BS5973.	1.4

Aerial Tilt Brackets 48Ø Pole

Galvanized to BS ENISO 1461:1999

48.3Ø tube

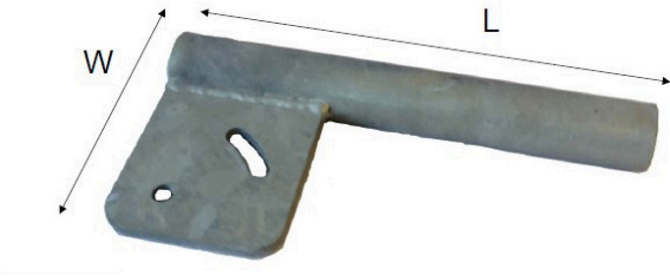
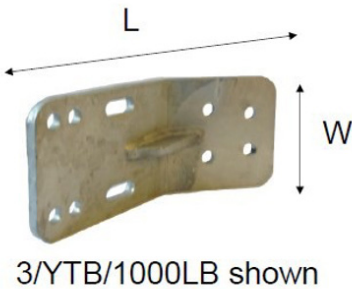
Stand off 200mm Order 2 x bolts per bracket

This economical tilt bracket enables the rake of the structure to be taken out up to 15 degrees up or down from the vertical to ensure horizontal adjustment of the aerial.



Kit No.	Series	Wt Kg
4/YTB/1000	1000	6.0
4/YTB/2000	2000	6.5
4/YTB/3000	3000	7.0
4/YTB/4000	4000	7.4

Part No.	Series	L	W	Wt Kg
3/YTB/1000LB	1000	265	120	2.7
3/YTB/2000LB	2000	320	120	3.2
3/YTB/3000LB	3000	360	120	3.7
3/YTB/4000LB	4000	410	120	4
3/YTB/POLE	ALL	350	175	3



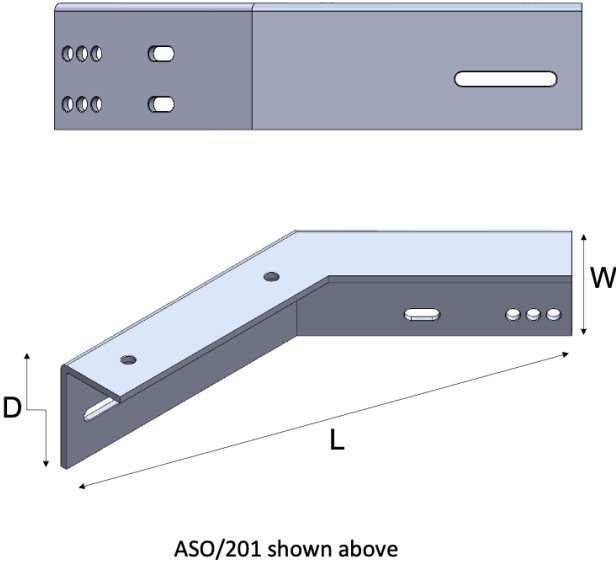
45°Angle Stand Off Bracket

Material 8mm S355J2 BS EN 10025-2 Galvanized to BS ENISO 1461:1999 Use 12mm fixing

Mainly used on Angle tower legs

Using the standard fixing as shown, the brackets provide vertical fixing points easily and economically

Part No.	Series	L	W	D	Wt. Kg
30ASO101	1000	500	125	75	6.1
30ASO201	2000	560	125	75	6.6
30ASO301	3000	590	125	70	7.1
30ASO401	4000	635	75	130	7.5



Channel Stand Off

Material 6mm Plate BSEN 10025-2004 Grade S275JR Galvanized to BS ENISO 1461:1999

Takes 60.3Ø -76.1Ø- 88.9 Ø or 114.3Ø antenna mount poles.

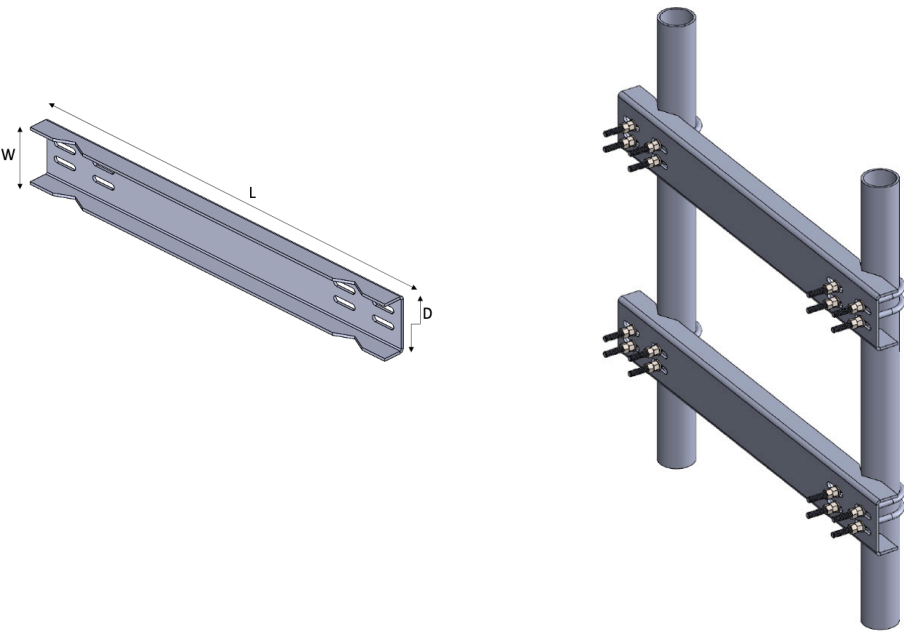
Stand Off 750mm

Heavy duty channel brackets with notch-outs to ensure pole stability.

Long legged U bolts for antenna poles required. Order U/N bolts to suit tower leg size

Part No.	L	W	D	Wt. Kg
3/CSO/001	947	120	45	8.2

Kit No.	Leg size	Pole Dia.	Pole Length	Wt. Kg
4/CSO/25/02	60.3 to 114.3	60.3	2500	37
4/CSO/25/03	60.3 to 114.3	76.1	2500	42
4/CSO/25/04	60.3 to 114.3	88.9	2500	46
4/CSO/25/05	60.3 to 114.3	114.3	2500	53
3/YTB/POLE	ALL	350	175	3



Channel Wall Brackets

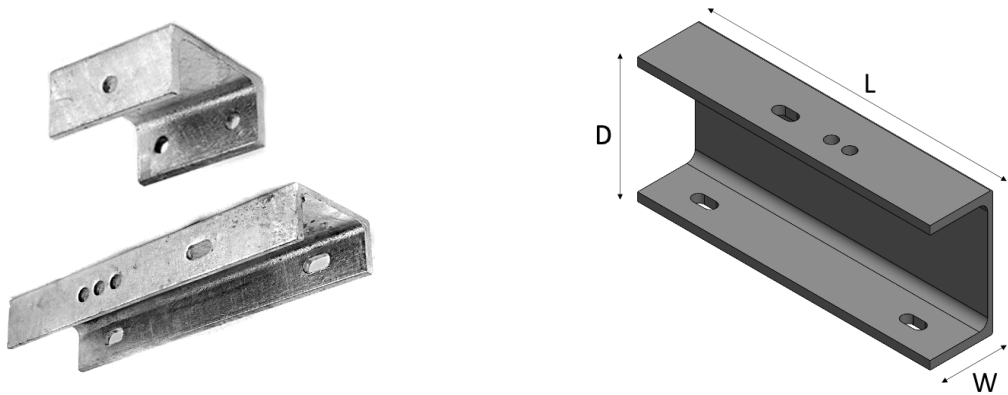
Material BS EN 10025-2 S355J0

Galvanized to BS ENISO 1461

Channel wall brackets are stocked in two types CWB and CWBX.

CWB for 48.3Ø poles using 10mm fasteners and single hole fixing to wall. CWBX for poles using 12mm fasteners and two slots fixing to wall.

Part No.	Pole Dia Series	Fixing Size	L	W	D	Wt. Kg
3/CWB/1041	48.3	10mm	102	50	100	1.0
3/CWB/1051	48.3	10mm	102	65	125	1.5
3/CWB/1061	48.3	10mm	102	75	150	1.8
3/CWBX/4/100	1000	12mm	350	50	100	3.6
3/CWBX/5/100	1000	12mm	350	65	125	5.2
3/CWBX/6/100	1000	12mm	350	75	150	6.6
3/CWBX/4/200	2000	12mm	350	50	100	3.6
3/CWBX/5/200	2000	12mm	350	65	125	5.2
3/CWBX/6/200	2000	12mm	350	75	150	6.5



Chimney Lashing Brackets

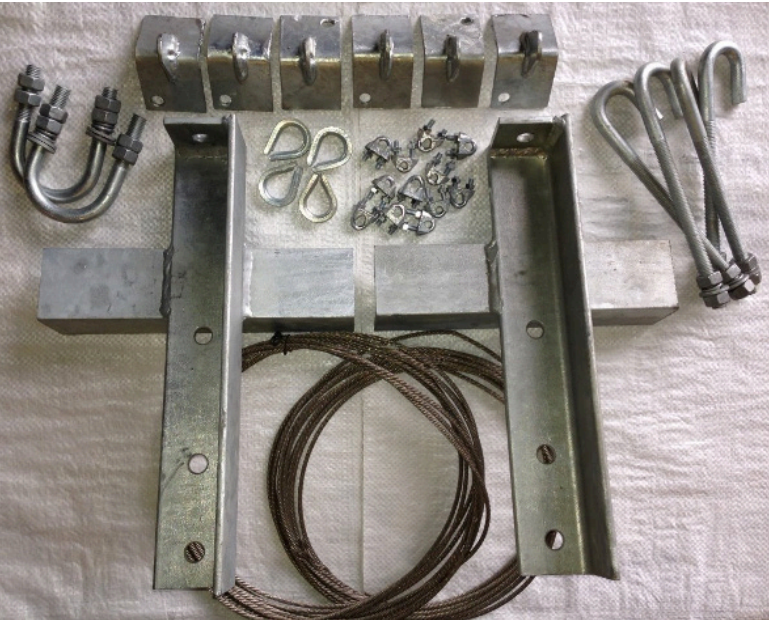
Galvanized to BS ENISO 1461:1999 5 metre lengths of tensioning wire.

Designed to support 48.3Ø aerial pole with no drilling of brickwork.

Kit No.	Description	Qty
4/CLB/001	Brackets Set	1

Comprises of:

Kit No.	Description	Qty
3/CLB/001	Support Bracket	2
3/CLB/002	Corner Bracket	6
2/GSS/008	6mm Wire 5m Long	2
2/OT/06H	6mm Thimble	4
2/WRG/103	6mm Rope Grip	12
2/HB/007	12mm Hook Bolt	4
2/UB/021	U Bolt	2



Feeder Brackets

Material 50 x 8mm S275JR BS EN 10025-2

Galvanized to BS ENISO 1461 - use 12mm fixings Pitch centres of feeder holes 65mm.



Part No.	Series	Angle	Feeder Holes No. /Dia	Dev Length	Wt. Kg
30FB11204	1000	0°	4/12	463	1.4
30FB11206	1000	0°	6/12	593	1.8
30FB112456	1000	45°	6/12	593	1.8
30FB112904	1000	90°	4/12	463	1.4
30FB112906	1000	90°	6/12	593	1.8
30FB21204	2000	0°	4/12	525	1.6
30FB21206	2000	0°	6/12	655	1.9
30FB212456	2000	45°	6/12	655	1.9
30FB212904	2000	90°	4/12	525	1.9
30FB212906	2000	90°	6/12	655	2.0
30FB31204	3000	0°	4/12	563	1.7
30FB31206	3000	0°	6/12	693	2.1
30FB312456	3000	45°	6/12	693	2.1
30FB312904	3000	90°	4/12	563	1.7
30FB312906	3000	90°	6/12	693	2.2
30FB41204	4000	0°	4/12	611	2.0
30FB41206	4000	0°	6/12	741	2.3
30FB412456	4000	45°	6/12	741	2.4
30FB412904	4000	90°	4/12	611	1.9
30FB412906	4000	90°	6/12	741	2.4

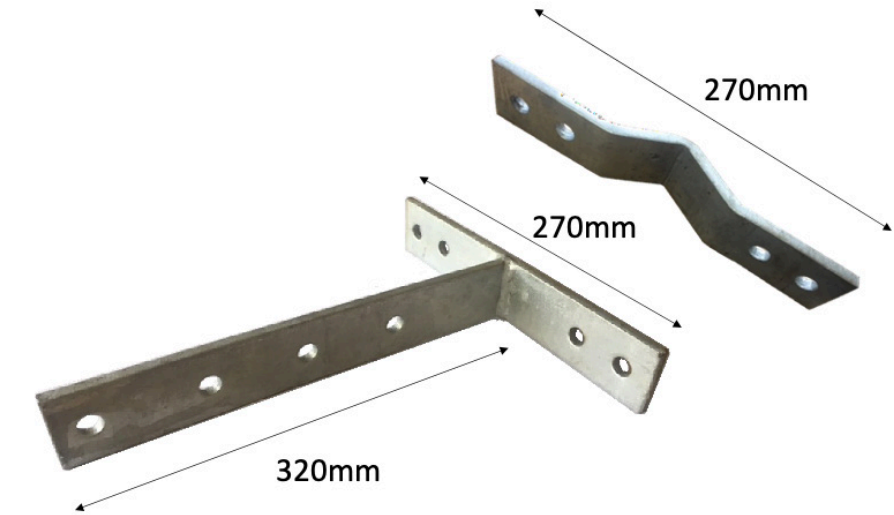
Universal Feeder Bracket Assembly

Galvanized to BS ENISO 1461

Material 50 x 8mm S275JR BS EN 10025-2 Allows feeders to run within the tower leg

Can be used when tower leg size unknown as is Universal

Each kit c/w feeder bracket, clamp and 2 x M12 x 150mm threaded bar



Kit No.	To suit	Wt. Kg.
4/FBT/4T	Tubular leg up to and incl. 219mm	3.0
4/FBT/4A	Equal angle leg up to and incl. 150mm	3.0

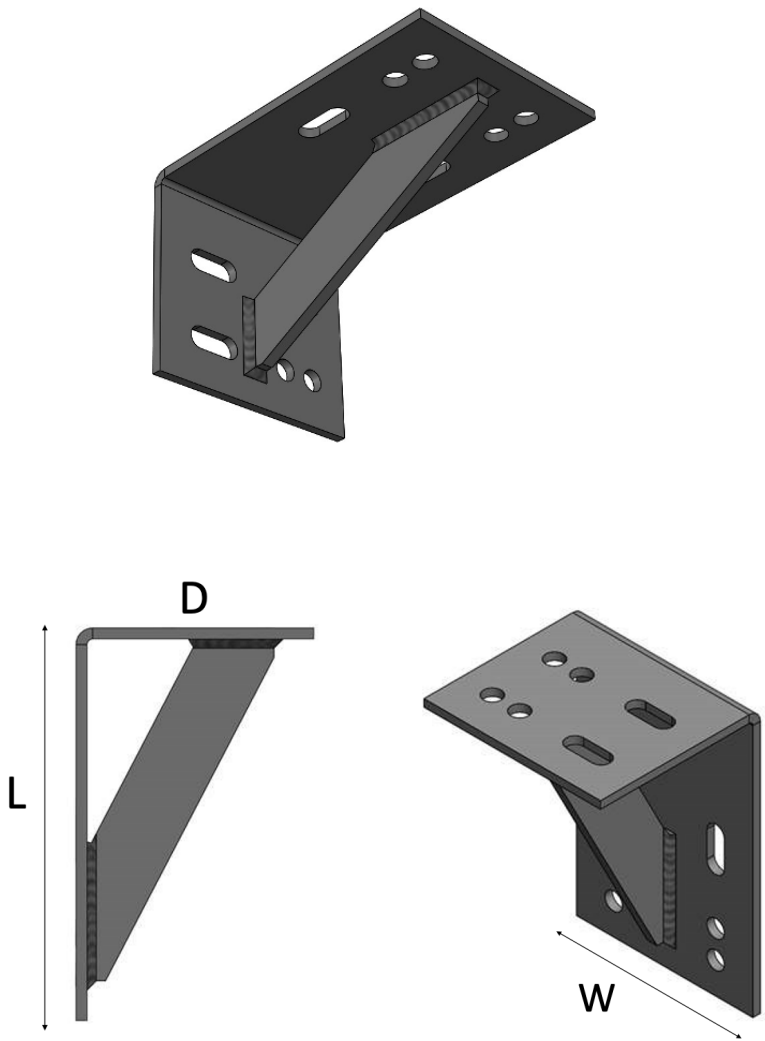
90° Mounting Bracket

Material 8mm S355J2 BS EN 10025-2 Galvanized to BS ENISO 1461

Use 12mm fixings

100mm clearance between tower and pole to avoid existing bracings.

Part No.	Pole Series	Fixture Series	L	W	D	Wt. Kg
3/MB/1001	1000	1000	210	140	128	3.4
3/MB/1002	1000	2000	270	140	125	3.5
3/MB/2001	2000	1000	210	205	125	4.2
3/MB/2002	2000	2000	275	200	120	5.0



Parallel Stand Off Brackets

Material 8mm S355J2 BS EN 10025-2 Galvanized to BS ENISO 1461

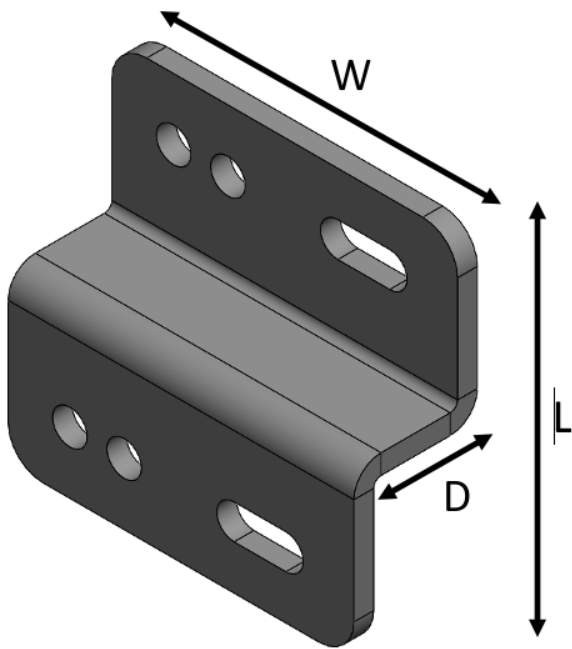
Use 12mm fixings.

50mm Stand Off—Enables poles to be attached in close proximity

Part No.	Pole Series	L	W	D	Wt. Kg
30SOB1001	1000x1000	120	140	50	1.50
30SOB1002	1000x2000	120	205	50	2.20
30SOB1003	1000x3000	120	242	50	2.50
30SOB1004	1000x4000	120	290	50	2.80
30SOB2002	2000x2000	120	205	50	2.20
30SOB2003	2000x3000	120	242	50	2.30
30SOB2004	2000x4000	120	290	50	2.80
30SOB3003	3000x3000	120	242	50	3.00

100mm Stand Off—Same bracket but provides a bigger stand off

Part No.	Pole Series	L	W	D	Wt. Kg
30SOB1001100	1000x1000	120	140	100	1.50
30SOB1002100	1000x2000	120	205	100	2.20
30SOB2002100	2000x2000	120	205	100	2.19



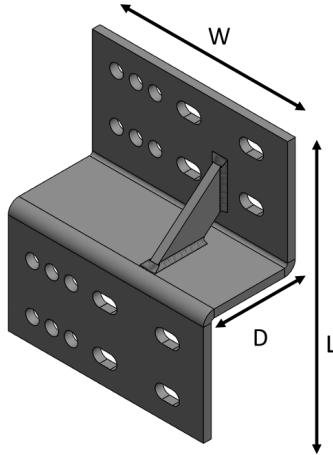
Heavy Duty Parallel Stand Off Brackets

Material 8mm S355J2 BS EN 10025-2 Galvanized to BS ENISO 1461

Use 12mm fixings (2 + 2)

100mm stand off. Suits from and including 33.7—130mm

Part No.	Pole Series	L	W	D	Wt. Kg
30SOB1212	1000 x 2000 and 2000 x 1000	230	200	100	4.0



Sloping Pole Bracket Kit

Fitted to any raked pole where equipment such as RRU (Remote Radio Unit) are to be easily and universally fitted.

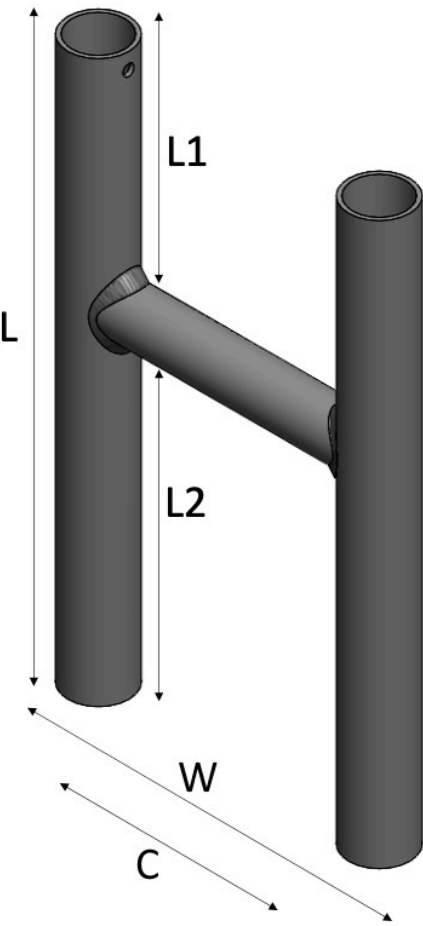
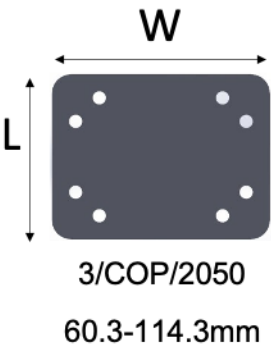
Each kit supplied complete with H Bracket, Crossover Plate, 2x U Bolts, 2x V Bolts and 2x Vinyl Tube Caps with a fitting range of 60mm-114mm CHS. (Use 12mm fixings).

Our standard sizes are listed below but we can manufacture any size required.

Kit No.	Description	Wt. Kg
42SLP076	Sloping Pole 500x300	15.12
42SLP176	Sloping Pole 700x300	19.12
42SLP276	Sloping Pole 500x500	19.38



Part No.	Description	L	L1	L2	C	W	Wt. Kg
33COP2050	Cross Over Plate	175	-	-	-	230	3.0
31DTM076	Dish Tilt Mount	500	50	390	300	452	11.0
31DTM176	Dish Tilt Mount	700	200	440	300	452	15.0
31DTM276	Dish Tilt Mount	500	50	390	500	652	13.0



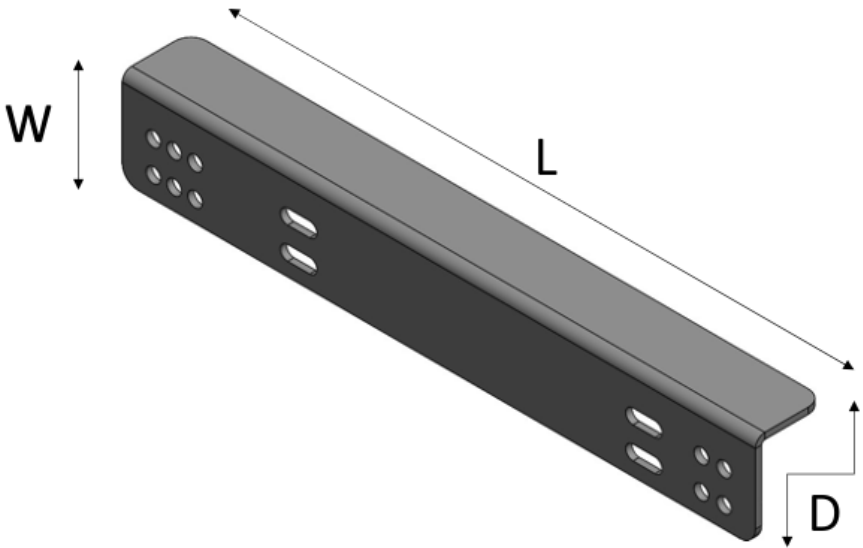
Straight Stand Off Brackets

Material 6mm S355J2 BS EN 10025-2 Galvanized to BS ENISO 1461

Use 12mm fixings—Stand off approx. 330mm

Economical range of brackets for supporting antenna poles, normally used on tubular and circular legs

Part No.	Leg Size Series	Mount Series	L	W	D	Wt. Kg
30SSO101	1000	1000	540	100	63	3.5
30SSO201	2000	1000	608	100	63	4.1
30SSO301	3000	1000	640	100	63	4.4
30SSO401	4000	1000	690	100	63	4.7
30SSO102	1000	2000	608	100	63	4.1
30SSO202	2000	2000	674	100	63	4.5
30SSO302	3000	2000	708	100	63	5.1
30SSO402	4000	2000	738	100	63	5.7



Wall Bracket

Material 1000 Series 50 x 6— 2000 Series 50 x 8—3000 up to 15"

50 x 8—18" & above 50 x 10

S275JR BS EN 10025-2 -Galvanized to BS ENISO 1461

48.3Ø aerial pole order 10mm U bolt and fixings. 60.3Ø, 76.1Ø and 88.9Ø aerial poles order 12mm U bolt and fixings.

Wall brackets come in pairs as standard (2 and 3 legs) but can be ordered singularly for special installations.

Other sizes to order.



Stand off		Pole	Kit (pair)	Wt. Kg	2 Leg Bracket	Wt. Kg	3 Leg Bracket	Wt. Kg
230	9"	48.3	4/WBA/1090	4.0	3/WB/1092	1.6	3/WB/1093	2.4
305	12"	48.3	4/WBA/1120	5.0	3/WB/1122	2.0	3/WB/1123	3.0
380	15"	48.3	4/WBA/1150	6.0	3/WB/1152	2.4	3/WB/1153	3.6
460	18"	48.3	4/WBA/1180	7.5	3/WB/1182	3.0	3/WB/1183	4.5
610	24"	48.3	4/WBA/1240	8.7	3/WB/1242	3.5	3/WB/1243	5.2
760	30"	48.3	4/WBA/1300	10.8	3/WB/1302	4.3	3/WB/1303	6.5
920	36"	48.3	4/WBA/1360	12.8	3/WB/1362	5.1	3/WB/1363	7.7
230	9"	60.3	4/WBA/2090	5.4	3/WB/2092	2.2	3/WB/2093	3.2
305	12"	60.3	4/WBA/2120	6.6	3/WB/2122	2.7	3/WB/2123	3.9
380	15"	60.3	4/WBA/2150	7.9	3/WB/2152	3.2	3/WB/2153	4.7
460	18"	60.3	4/WBA/2180	9.2	3/WB/2182	3.7	3/WB/2183	5.5
610	24"	60.3	4/WBA/2240	11.5	3/WB/2242	4.6	3/WB/2243	6.9
760	30"	60.3	4/WBA/2300	14.5	3/WB/2302	5.8	3/WB/2303	8.7
920	36"	60.3	4/WBA/2360	17.0	3/WB/2362	6.8	3/WB/2363	10.2
230	9"	76.1	4/WBA/3090	5.2	3/WB/3092	2.1	3/WB/3093	3.1
305	12"	76.1	4/WBA/3120	6.7	3/WB/3122	2.7	3/WB/3123	4.0
380	15"	76.1	4/WBA/3150	8.1	3/WB/3152	3.3	3/WB/3153	4.8
460	18"	76.1	4/WBA/3180	9.3	3/WB/3182	3.8	3/WB/3183	5.5
610	24"	76.1	4/WBA/3240	11.7	3/WB/3242	4.7	3/WB/3243	7.0
760	30"	76.1	4/WBA/3300	14.5	3/WB/3302	5.8	3/WB/3303	8.7
920	36"	76.1	4/WBA/3360	17.0	3/WB/3362	6.8	3/WB/3363	10.2
305	12"	88.9	4/WBA/4120	8.6	3/WB/4122	3.5	3/WB/4123	5.1
380	15"	88.9	4/WBA/4150	10.2	3/WB/4152	4.2	3/WB/4153	6.1
460	18"	88.9	4/WBA/4180	11.9	3/WB/4182	4.8	3/WB/4183	7.1
610	24"	88.9	4/WBA/4240	14.8	3/WB/4242	5.9	3/WB/4243	8.9

Cross Over Plates

Eco Cross Over Plates

Material 10mm S355J2 BS EN 10025-2
-Galvanized to BS ENISO 1461

Use 12mm fixings

Select the correct Cross Over Plate from the 'Series Chart' below.

Part No.	Tube Ø	Series	L	W	Wt. Kg
3/COP/1012	48.3	1000	191	150	2.0
3/COP/1012	60.3	1000	191	150	2.0
3/COP/1034	76.1	1000	200	191	2.7
3/COP/1034	88.9	1000	200	191	2.7
3/COP/1005	114.3	1000	220	191	3.2
3/COP/2012	48.3	2000	257	160	2.9
3/COP/2012	60.3	2000	257	160	2.9
3/COP/2034	76.1	2000	257	200	3.4
3/COP/2034	88.9	2000	257	200	3.4
3/COP/2005	114.3	2000	257	220	4.9
3/COP/3012	48.3	3000	292	160	3.4
3/COP/3012	60.3	3000	292	160	3.4
3/COP/3034	76.1	3000	292	200	4.4
3/COP/3034	88.9	3000	292	200	4.4
3/COP/3005	114.3	3000	292	220	4.9
3/COP/4012	48.3	4000	340	160	4.0
3/COP/4012	60.3	4000	340	160	4.0
3/COP/4034	76.1	4000	340	200	5.1
3/COP/4034	88.9	4000	340	200	5.1
3/COP/4005	114.3	4000	340	220	5.8
3/COP/5012	48.3	5000	365	160	4.5
3/COP/5012	60.3	5000	365	160	4.5
3/COP/5034	76.1	5000	365	200	5.7
3/COP/5034	88.9	5000	365	200	5.7
3/COP/5005	114.3	5000	365	220	6.3

Universal Cross Over Plates

Material 6mm S355J2 BS EN 10025-2

Galvanized to BS ENISO 1461

Use 10mm fixings

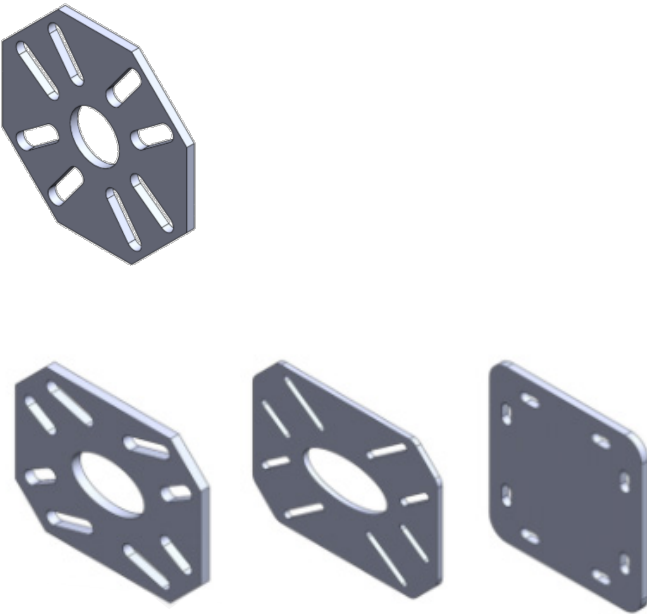
Part No.	Leg Range	Vertical	Horizontal	Wt. Kg
3/COP/2550	25Ø to 50Ø	25 x 25 Angle to 50 x 50 Angle	Same as Vertical	1.1

Material 10mm S355J2/S275JR BS EN 10025-2

Galvanized to BS ENISO 1461

Use 12mm fixings

Part No.	Tower/Mast Leg Range Tube	Tower/Mast Leg Range Angle	Boom Range	L	W	Wt. Kg
3/COP/810	33.7Ø to 114.3Ø	45 x 45 Angle to 115 x 115 Angle	33.7Ø to 60.3Ø	214	164	1.8
3/COP/910	88.9Ø to 219.1Ø	85 x 85 Angle to 200 x 200 Angle	33.7Ø to 88.9Ø	397	280	6.4
3/COP/4141	76.1Ø to 100Ø	80 x 80 Angle to 100 x 100 Angle	76.1Ø to 100Ø	225	225	3.5



Standard Cross Over Plates

Material 10mm S355J2 BS EN 10025-2 -Galvanized to BS ENISO 1461

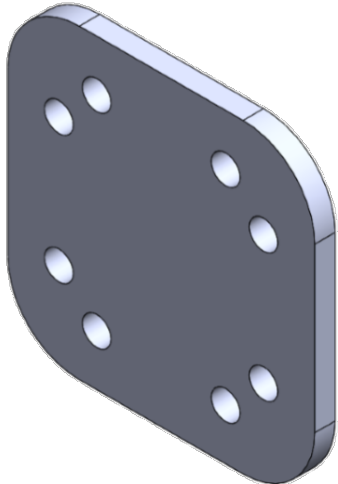
Use 12mm fixings

Part No.	Tube Ø	U Bolt	L	W	Wt. Kg
3/COP/1010	48.3	2/UB/12/048	150	150	1.7
3/COP/2020	60.3	2/UB/12/060	160	160	2.0
3/COP/3030	76.1	2/UB/12/076	180	180	2.9
3/COP/4040	88.9	2/UB/12/089	200	200	3.1
3/COP/5050	114.3	2/UB/12/114	220	220	4.8

Material 10mm S355J2 BS EN 10025-2 -Galvanized to BS ENISO 1461 – use 12mm

Cross Over plate to cover popular range of tubes

Part No.	Tube Ø	L	W	Wt. Kg
3/COP/2424	60.3Ø to 88.9Ø	205	205	2.5
3/COP/2020	60.3	2/UB/12/060	160	160
3/COP/3030	76.1	2/UB/12/076	180	180
3/COP/4040	88.9	2/UB/12/089	200	200
3/COP/5050	114.3	2/UB/12/114	220	220



Cross Over Plates with Tube Support Lugs

This cross over plate incorporates tube location lugs to support horizontal & cross members on assemblies such as face frames.

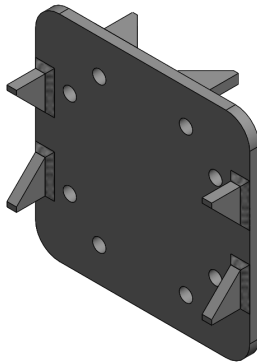
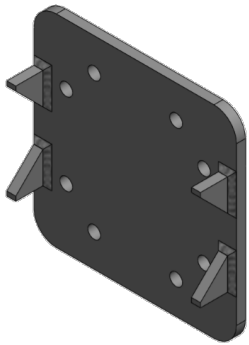
Bespoke units can be fabricated to suit individual parent leg sizes.

Material 10mm S355J2 BS EN 10025-2

Galvanized to BS ENISO 1461

Part No.	Tube Ø	L	W	Wt. Kg
3/COP/30L30	76.1	225	225	4.2
3/COP/30L40	76.1	225	225	4.2
3/COP/30L50	76.1	225	225	4.4
3/COP/40L40	88.9	225	225	4.2
3/COP/40L50	88.9	250	225	4.7
3/COP/50L50	114.3	250	250	5.2

Part No.	Tube Ø	Tube Ø	L	W	Wt. Kg
3/COP/30L30L	76.1	76.1	225	225	4.5
3/COP/30L40L	76.1	88.9	225	225	4.5
3/COP/30L50L	76.1	114.3	225	225	4.7
3/COP/40L40L	88.9	88.9	225	225	4.5
3/COP/40L50L	88.9	114.3	250	225	4.9
3/COP/50L50L	114.3	114.3	250	250	5.5



Dish Mounts

Antenna Face Mount

Fully adjustable poles

Each face mount is supplied/manufactured to meet the structure's criteria regarding leg size and rake

In most instances these universal face frames can be supplied 'off the shelf' as they incorporate parts from our standard range.



Antenna Leg Mount

Galvanized to BS ENISO 1461:1999

Leg mounted pole 114.3Ø

Pole 114.3Ø x 1500 Long ~ 1200 Clear Standoff 230mm

On tower leg rakes (0 - 30) the dish mount pole can be kept in the vertical position by use of the slotted holes in the support brackets. Order leg fixing bolts separately.

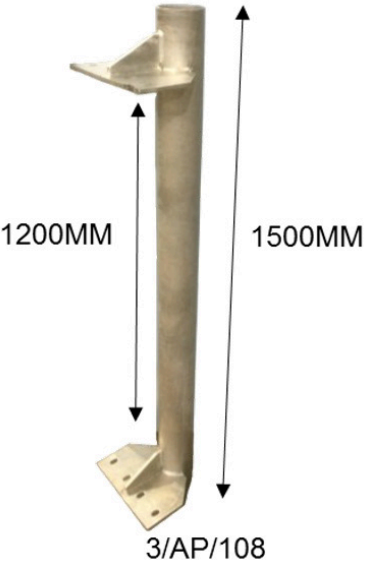
Custom made brackets can be made to suit particular rakes. Other sizes available to order.

Part No.	Series	L	W	D	Wt. Kg
3/AB/1112	1000	300	150	150	7.5
3/AB/1113	2000	300	150	150	7.5
3/AB/1114	3000	300	150	150	7.5
3/AB/1115	4000	300	150	150	7.5
3/AB/1116	2000	295	300	185	11
3/AB/1117	3000	295	300	185	13.5



Kit No.	Pole	Bracket	Kit Wt	Tubular Leg	Wt. Kg
4/ALM/1112	3/AP/108	3/AB/112	36	1000	7.5
4/ALM/1113	3/AP/108	3/AB/113	37	2000	7.5
4/ALM/1114	3/AP/108	3/AB/114	38	3000	7.5
4/ALM/1115	3/AP/108	3/AB/115	39	4000	7.5
3/AB/1116	2000	295	300	185	11
3/AB/1117	3000	295	300	185	13.5

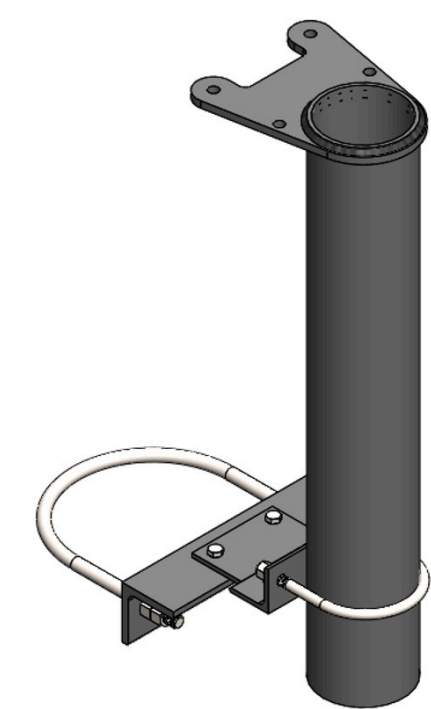
Kit No.	Pole	Bracket	Kit Wt	Angle Leg	Wt. Kg
4/ALM/2116	3/AP/108	3/AB/116	54	70 x 70 to 90 x 90	7.5



Monopole Dish Mount

Material S355J2 BS EN 10025-2.

Galvanized to BS ENISO 1461 To suit 219.3 and 168mm diameter tubes.



Kit No.	Wt. Kg
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5/MPM/P1	25.1
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Part No.	Description	Wt. Kg
3/MPM/101	Dish Pole	15.0
3/MPM/102	Dish Pole Angle	1.0
3/MPM/103	Dish Pole Angle	4.0
3/MPM/104	Dish Pole Plate A	1.0
3/MPM/105	Dish Pole Plate B	1.0
3/AB/1117	3000	295

Single Fixing Universal Mount 60Ø Pole

Galvanized to ENISO 1461:1999 60.3Ø tube

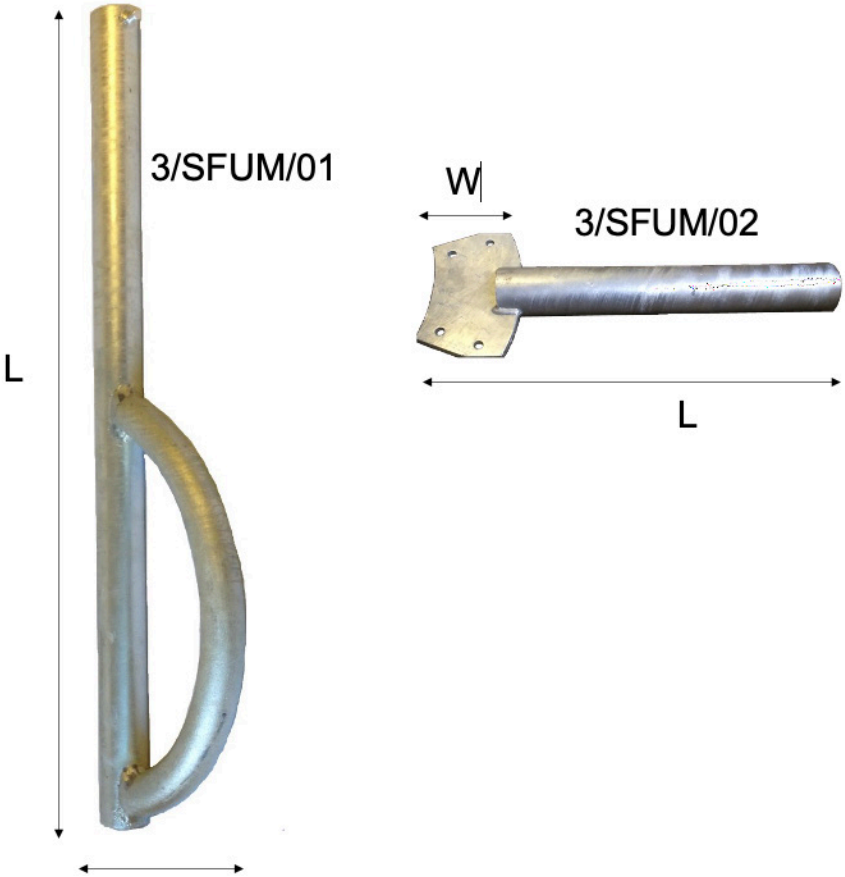
Horizontal or vertical fixing

Versatile dish mount uses eco cross over plate for easy assembly and only requires 200mm mounting area

Designed for dishes up to 600mmØ and takes out up to 25 degrees rake in structure.

Kit No.	Series	Wt. Kg
4/SFUM/1000	1000	20.86
4/SFUM/2000	2000	22.00
4/SFUM/3000	3000	23.25
4/SFUM/4000	4000	24.17

Part No.	L	W	Wt. Kg
3/SFUM/01	1000	250	10
3/SFUM/02	650	150	7



Single Mounting Dish Bracket 76Ø Pole

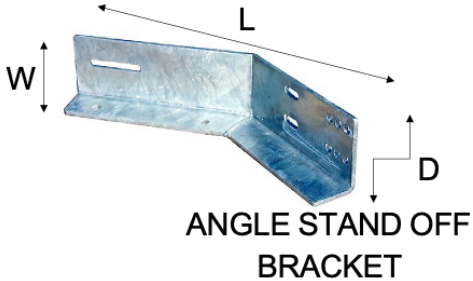
Galvanized to ENISO 1461:1999 76.1Ø tube

This economical swivel bracket when used with the standard angle stand off bracket allows easy attachment of up to 300mm microwave dishes eliminating the rake angle of the tower.

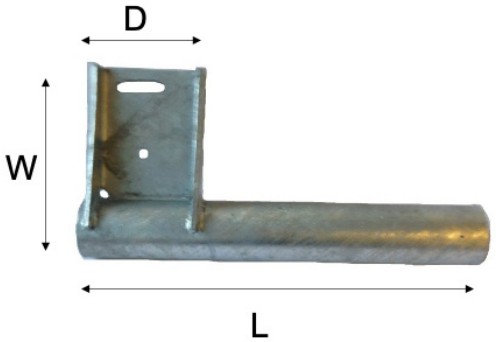
Identify the series for the leg from the chart at the rear of the catalogue. Order two leg fixing bolts per kit for the series

Kit No.	Series	Wt. Kg
4/SFDM/1076	1000	13.0
4/SFDM/2076	2000	13.6
4/SFDM/3076	3000	14.1
4/SFDM/4076	4000	15.2

Part No.	Series	L	W	D	Wt. Kg
3/ASO/101	1000	500	125	75	6.1
3/ASO/201	2000	560	125	75	6.6
3/ASO/301	3000	590	125	75	7.1
3/ASO/401	4000	630	125	75	7.5
3/DTP/076	ALL	500	240	90	6.0



ANGLE STAND OFF BRACKET



DISH TILT POLE

Roof Mounts

Mini Mount

Galvanized to BS ENISO 1461:1999 Quick and easy to install.

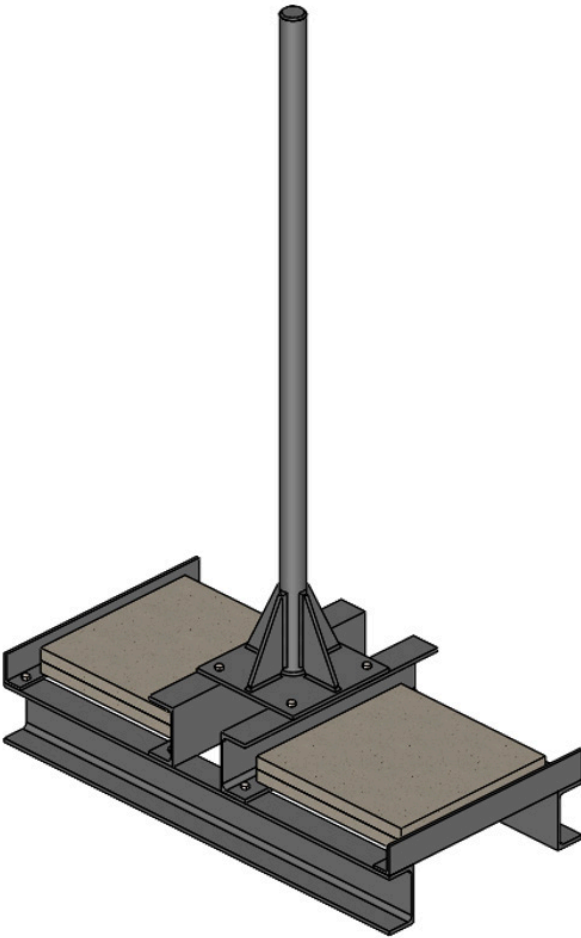
Ideal for restricted roof space No drilling required.

Foot print 1200 x 600

Built in trays for additional ballast if required Polystyrene foam base.

Kit No.	Overall Height	Footprint	Pole Dia.	Clear Pole Length	Wt. Kg
46MMA048	2000	1200 x 600	48.3	1440	90
46MMA060	2000	1200 x 600	60.3	1440	95

Pavement slabs shown in image not supplied. Must order separately.



Roof Mount

Galvanized to BS ENISO 1461:1999

2.5 metre pole as illustrated

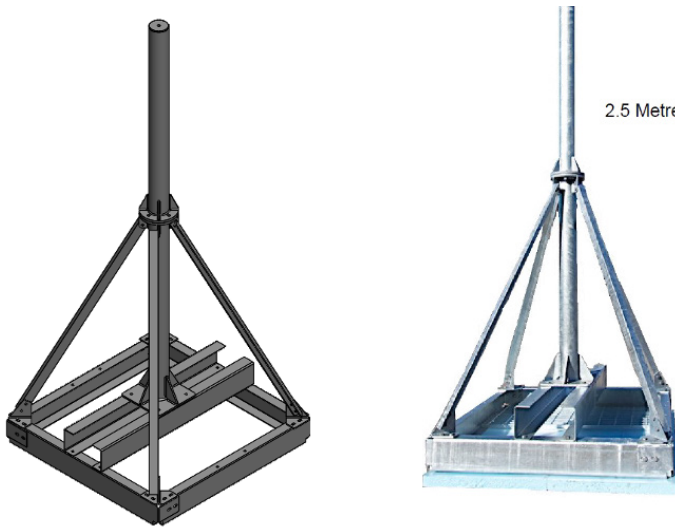
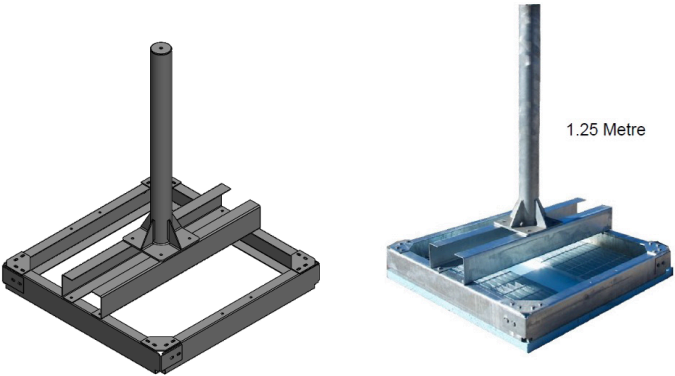
1.25 metre pole without stays

76Ø or 114Ø support poles standard Lightweight construction

Concrete ballast not supplied Foot print 1200 x 1200

Assembled from easily handled parts the frame is ideal when installation prohibits fixing. Comprising of an extruded polystyrene foam base and an integral mesh support for concrete block ballast. The frame can be supplied with the top support pole.

Kit No.	Overall Height	Footprint	Pole Dia.	Clear Pole Length	Wt Kg
5/PMA/076/1250	1615	1200 x 1200	76.1	1100	123
5/PMA/076/2500	2855	1200 x 1200	76.1/114.3	1145	174
5/PMA/114/1250	1615	1200 x 1200	114.3	1100	135
5/PMA/114/2500	2855	1200 x 1200	114.3/114.3	1135	177



enquire@fla-intermex.co.uk

HD Roof Mount

Galvanized to BS ENISO 1461:1999

3.1 metre pole

114Ø support poles standard Concrete ballast not supplied
Foot print 2000 x 2000

Assembled from easily handled parts the frame is ideal when installation prohibits fixing. Comprising of an extruded polystyrene foam base and an integral mesh support for concrete block ballast. The frame can be supplied with the top support pole to customer requirements

Kit No.	Overall Height	Footprint	Pole Dia.	Clear Pole Length	Wt. Kg
5/PMA/114/3000	3300	2000 x 2000	114.3/114.3	2080	350

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Access Step

Order Separately

Galvanized to BS ENISO 1461:1999
Material Grade BS EN 10025-2 S355J2

Optional Extra, bolt unit to access to top of pole

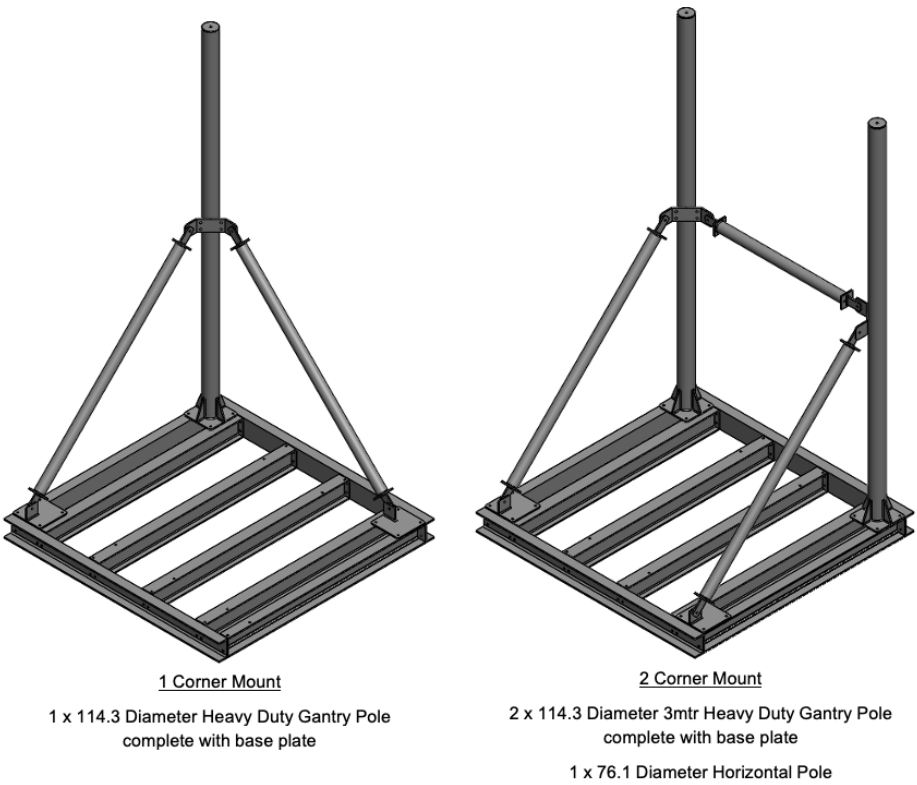
Kit comprises of the step and two U bolts-4/PMA/215



Corner Roof Mount

Corner Mount enables close proximity to the edge of roofs to allow unimpeded antenna coverage. Choice of either 1 corner or 2 corner Mount.

Complete with fixings and polystyrene roof protection which prevents penetrating rooftops. Concrete ballast not included, order separately if required.



Kit No.	Overall Height	Footprint	Clear Pole Length	Wt. Kg
5/RMA/C1/114/3000	3202	2000 x 2000	1100	378.0
5/RMA/C2/114/3000	3202	2000 x 2000	1145	444.0

Towers and Poles

400S Tower

Galvanized to BS ENISO 1461:1999

Modular 4 side lightweight tower 3m sections up to max 12m
Max headload 30kg

Off the shelf supply

Full range of accessories available.

Part No.	Section No.	Wt Kg
4/MS/401S	1	85
4/MS/402S	2	90
4/MS/403S	3	105
4/MS/411S	Base Grillage	30

Tower - Complete with base grillage and all fixings

Part No.	Tower Height
5/WS/406/S	6 Metre
5/WS/409/S	9 Metre
5/WS/412/S	12 Metre

Optional fittings on request

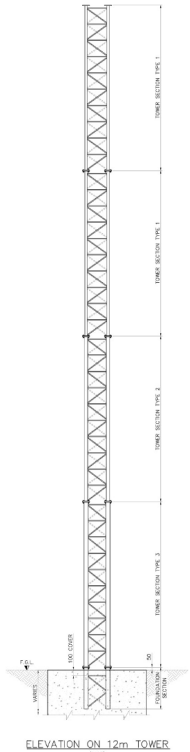
Windstock Pole Mast

FLA Ltd, working in partnership with Windsock Company, offer windsock equipment for all types of airfield and industrial applications. A range of windsocks and masts, with and without windsock illumination, are offered for use at:

- Airfields, airports and helicopter landing pads
- Oil, gas and petrochemical installations
- Power stations, water and sewage treatment works, ports, marinas and bridges

Our standard range of mast designs have been used throughout the UK and beyond - both on- shore and offshore. In addition to standard design equipment masts can be made to suit specific site conditions or special configurations.

For further information contact the FLA sales desk and a member of the Windsock Company staff will make contact to determine your requirements.



Fasteners

- ▶ Anchor Bolts | 50
- ▶ Galvanized Fasteners | 54
- ▶ Stainless Steel Fasteners | 60
- ▶ U Bolts | 63
- ▶ N Bolts | 68
- ▶ Square Bolts | 72
- ▶ V Bolts | 74
- ▶ Hook Bolts | 75

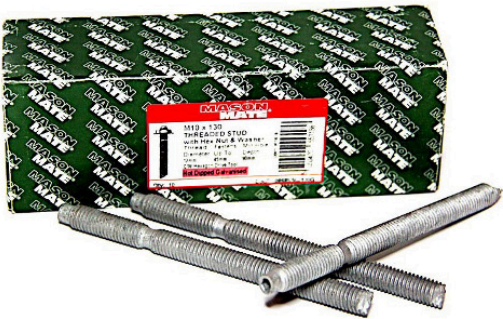
Anchor Bolts

Chemical Anchor Bolts

Chemical capsules contain polyester resin and quartz granules. Plus a phial hardener/ Studs have shaped tips to ensure thorough mixing of the adhesive when driven into the capsule with a suitable power tool.

The capsule and phial are crushed and mixed in the hole and the contents form a resinous mortar.

Bolts and Capsules supplied in packs of 10.



Stud Part No.	D	L	Drill Dia	Min Hole Depth	Max Fixing Thickness	Capsule Part No.
2/CAS/08/110	M8	110	10mm	80	16mm	2/CAC/008
2/CAS/10/130	M10	130	12mm	90	22mm	2/CAC/010
2/CAS/12/160	M12	160	14mm	110	30mm	2/CAC/012
2/CAS/16/190	M16	190	18mm	125	38mm	2/CAC/016

Resin Anchor Cartridge

Suitable for fixing studs, bolts and wall ties in a wide range of substrates such as concrete, brickwork, masonry and stone.

Advantages are expansion free anchoring, fits standard coaxial applicator and open cartridges can be re-used at a later date if a new nozzle is used.

*brands subject to availability at time of order.

Part No.	Description	Wt. Kg
20CAR400	Cartridge Resin	0.830
20CAG400	Cartridge Gun	0.500
20CAN400	Cartridge Nozzle	0.001



Masonry Anchor Bolts

Electroplated zinc finish to BS 1706 Class C (ZA2).

Masonry Drill Bits in 'Tools' section.

Suitable for concrete and most types of masonry.

Ideal for overhead and ceiling work.

For wall fixing, provides a stud on which to hang the fixture during installation. For fixing where the bolt needs to be inserted after the shield has been positioned, e.g. installing heavy equipment or machinery.



Part No.	Wt. Kg	Bolt Size	Shield Length	Fixing Thickness Min.	Hole Max.	Hole Dia.	Depth
2/MAB/0810B	0.055	M8	50	0	10	14	55
2/MAB/0825B	0.060	M8	50	0	25	14	55
2/MAB/1010B	0.097	M10	60	0	10	16	65
2/MAB/1025B	0.103	M10	60	0	25	16	65
2/MAB/1210B	0.173	M12	75	0	10	20	85
2/MAB/1225B	0.185	M12	75	0	25	20	85
2/MAB/1615B	0.408	M16	115	0	15	25	125
2/MAB/1630B	0.435	M16	115	10	30	25	125
2/MAB/0810S	0.058	M8	50	0	10	14	55
2/MAB/0825S	0.062	M8	50	0	25	14	55
2/MAB/1015S	0.099	M10	60	0	15	16	65
2/MAB/1030S	0.111	M10	60	0	30	16	65
2/MAB/1215S	0.187	M12	75	0	15	20	85
2/MAB/1230S	0.198	M12	75	0	30	20	85
2/MAB/1615S	0.430	M16	115	0	15	25	125
2/MAB/1635S	0.457	M16	115	10	35	25	125

Through Bolts

For fixing into concrete.

Through Bolt requires a hole the same diameter as the bolt

This may be drilled through the prepositioned fixture, so removing the need for marking out. The Through Bolt is a cost effective economy anchor, combining good load carrying characteristics with ease of fitting.

For use in concrete only if minimum strength 20 N/mm2.

*Partial F.O.S 1.4. Technical Information is for guidance only.

Part No.	Wt. Kg	D	L	Drill Dia.	Tightening Torque	Recommended Tension Load*
2/TBF/08/080	0.036	M8	80mm	8mm	15	3.06kn
2/TBF/10/080	0.056	M10	80mm	10mm	25	4.08kn
2/TBF/10/115	0.077	M10	115mm	10mm	25	4.48kn
2/TBF/12/100	0.098	M12	100mm	12mm	45	5.44kn
2/TBF/12/135	0.128	M12	135mm	12mm	45	5.44kn



Galvanized Fasteners

Set Screws

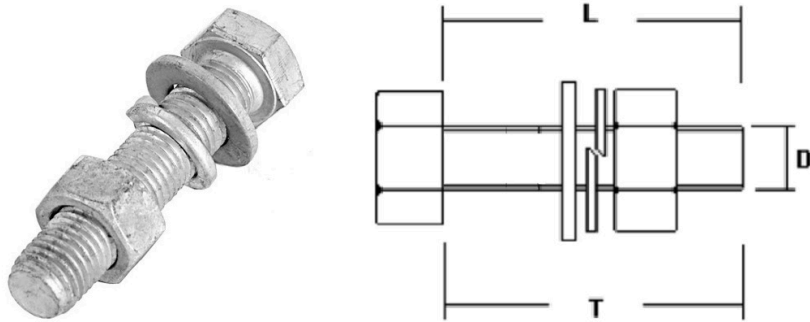
All spun galvanized to BS 7371.

Sets Grade 8.8, Nuts Grade 10.

All dimensions in millimetres.

Supplied with 1 Full Nut, 1 Form E Flat Washer and 1 Spring Washer . Bolt assembled with nut and flat washer only, spring washer supplied loose.

BS 3692-DIN933



Part No.	L	D	T
20BNW10020S	20	10	20
20BNW10025S	25	10	25
20BNW10030S	30	10	30
20BNW10035S	35	10	35
20BNW10040S	40	10	40
20BNW10100S	100	10	100
20BNW12020S	20	12	20
20BNW12025S	25	12	25
20BNW12030S	30	12	30
20BNW12035S	35	12	35
20BNW12040S	40	12	40
20BNW12045S	45	12	45
20BNW12055S	55	12	55

Part No.	L	D	T
20BNW16035S	35	16	35
20BNW16040S	40	16	40
20BNW16045S	45	16	45
20BNW16050S	50	16	50
20BNW20030S	30	20	30
20BNW20035S	35	20	35
20BNW20040S	40	20	40
20BNW20045S	45	20	45
20BNW20050S	50	20	50
20BNW20055S	55	20	55
20BNW20060S	60	20	60
20BNW20065S	65	20	65
20BNW20070S	70	20	70
20BNW20075S	75	20	75
20BNW20080S	80	20	80

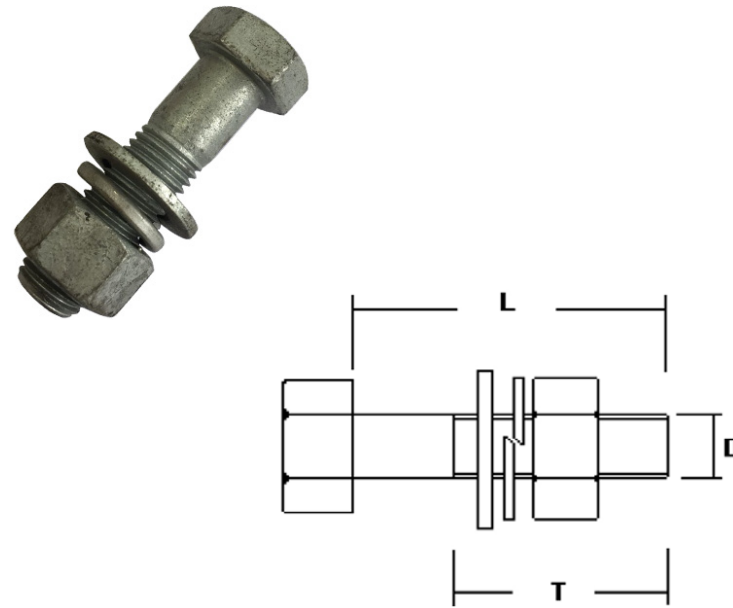
Structural 2D+6 Bolts

All spun galvanized to BS 7371.

Bolt Grade 8.8, Nut Grade 10. DIN 931.

All dimensions in millimetres.

Supplied with 1 Full Nut, 1 Form E Flat Washer and 1 Spring Washer.



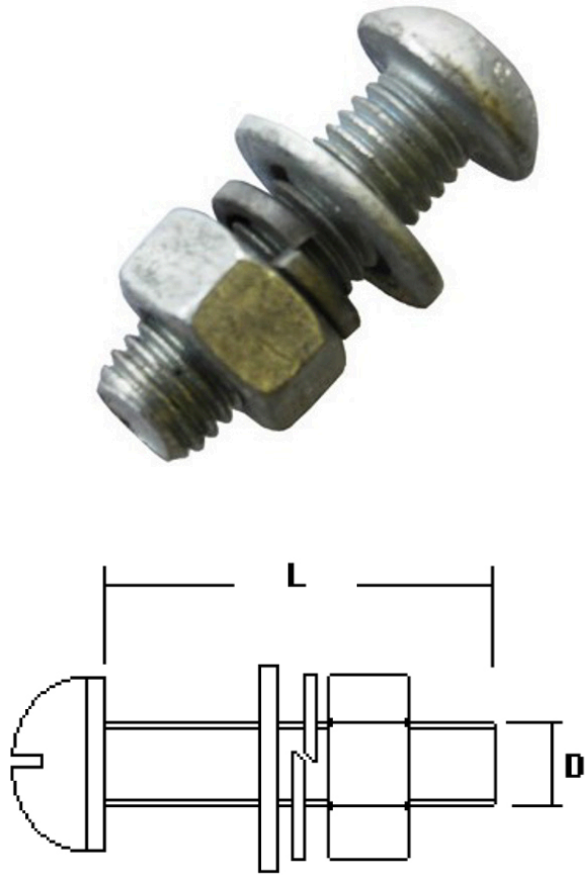
Part No.	L	D	T
2/BNW/10040/LT	40	10	26
2/BNW/10045/LT	45	10	26
2/BNW/10050/LT	50	10	26
2/BNW/12045/LT	45	12	30
2/BNW/12050/LT	50	12	30
2/BNW/12055/LT	55	12	30
2/BNW/12060/LT	60	12	30
2/BNW/12065/LT	65	12	30
2/BNW/12070/LT	70	12	30
2/BNW/12080/LT	80	12	30
2/BNW/12090/LT	90	12	30
20BNW12045S	45	12	45
20BNW12055S	55	12	55

Part No.	L	D	T
2/BNW/16050/LT	50	16	38
2/BNW/16055/LT	55	16	38
2/BNW/16060/LT	60	16	38
2/BNW/16065/LT	65	16	38
2/BNW/16070/LT	70	16	38
2/BNW/16075/LT	75	16	38
2/BNW/16080/LT	80	16	38
2/BNW/16150/LT	150	16	38
2/BNW/20055/LT	55	20	46
2/BNW/20060/LT	60	20	46
2/BNW/20065/LT	65	20	46
2/BNW/20070/LT	70	20	46
2/BNW/20075/LT	75	20	46
2/BNW/20080/LT	80	20	46
2/BNW/20085/LT	85	20	46
2/BNW/20090/LT	90	20	46
2/BNW/20100/LT	100	20	46

Dome Head Bolts

BS 3692 DIN601.
Mild Steel Grade 4.6.
Finish Spun Galvanized to BS 7371.
Fully Threaded.
Supplied with 1 Full Nut, 1 Form E Flat Washer and 1 Spring Washer.

Part No.	L	D
2/BNW/10030/DH	30	10
2/BNW/10040/DH	40	10
2/BNW/12030/DH	30	12
2/BNW/12040/DH	40	12
2/BNW/12045/DH	45	12
2/BNW/12050/DH	50	12
2/BNW/12055/DH	55	12
2/BNW/12060/DH	60	12



Fasteners

Full and half nuts – taped over size. Spring washers – form A All spun galvanized to BS 7371

Full Nut

Part No.	Size
2/GVF/001	M10
2/GVF/004	M12
2/GVF/007	M16
2/GVF/043	M20



Half Nut

Part No.	Size
2/GVF/030	M10
2/GVF/031	M12
2/GVF/032	M16



Spring Washer

Part No.	Size
2/GVF/002	M10
2/GVF/005	M12
2/GVF/008	M16
2/GVF/042	M20



Taper Washer

Part No.	Size
2/GVF/010	M10
2/GVF/011	M12
2/GVF/012	M16



Flat Washer Form E

Part No.	Size
2/GVF/003	M10 x 21
2/GVF/006	M12 x 24
2/GVF/009	M16 x 30
2/GVF/041	M20 x 36



Flat Washer Form F

Part No.	Size
2/GVF/003F	M10 x 30
2/GVF/006F	M12 x 35
2/GVF/009F	M16 x 50



Fasteners cont.

Full and half nuts – taped over size. Spring washers – form A All spun galvanized to BS 7371

Flat Washer Form G

Part No.	Size
2/GVF/035	M10 x 30
2/GVF/033	M12 x 35
2/GVF/040	M16 x 50



Round Pack Washer

Part No.	Size
2/GVF/023	M10 x 8
2/GVF/024	M12 x 8
2/GVF/025	M16 x 8



Square Pack Washer

Part No.	Size	Thickness
2/GVF/014	M10	6
2/GVF/017	M12	6
2/GVF/015	M10	8
2/GVF/016	M10	10
2/GVF/020	M16	6
2/GVF/021	M16	8
2/GVF/022	M16	10



Standard Studding

Galvanized to BS 7371.

Grade 8.8.

Standard length 1mtr but can cut to length if required.

Part No.	Wt. Kg	D	L	Tensile Capacity*
20GVF127	0.514	M10	1000	-
20GVF128	0.738	M12	1000	37.8kn
20GVF129	1.327	M16	1000	70.3kn
20GVF130	1.620	M20	1000	110kn

*Technical information is for guidance only



Stud Kits

Galvanized to BS 7371.

Grade 8.8.

Pack of 10 studs, 30 nuts, 20 flats and 20 springs.

Standard sizes below but can supply most sizes.

Part No.	D	L
20GS12100	M12	100
20GS12150	M12	150
20GS12200	M12	200
20GS12250	M12	250
20GS12300	M12	300

Stainless Steel Fasteners

Stainless Steel Set Screws

Stainless Steel Grade A2.

Fully threaded.

M6 Stainless Steel Sets

Part No.	L	D
2/SSF/06020	20	6
2/SSF/06025	25	6
2/SSF/06035	35	6
2/SSF/06040	40	6
2/SSF/06045	45	6
2/SSF/06050	50	6
2/SSF/06060	60	6
2/SSF/06100	100	6



M8 Stainless Steel Sets

Part No.	L	D
2/SSF/08025	25	8
2/SSF/08030	30	8
2/SSF/08035	35	8
2/SSF/08040	40	8
2/SSF/08045	45	8
2/SSF/08050	50	8
2/SSF/08055	55	8
2/SSF/08060	60	8

M10 Stainless Steel Sets

Part No.	L	D
2/SSF/10025	25	10
2/SSF/10030	30	10
2/SSF/10040	40	10
2/SSF/10045	45	10
2/SSF/10060	60	10

Nylon Fibre Washers

Fasteners Grade A2

Part No.	Size
2/NFW/006	M6
2/NFW/008	M8
2/NFW/010	M10
2/NFW/012	M12
2/NFW/016	M16



Stainless Steel Fasteners

All Fasteners Grade A2

Full Nut

Part No.	Size
2/SSF/001	M6
2/SSF/005	M8
2/SSF/009	M10
2/SSF/013	M12



Half Nut

Part No.	Size
2/SSF/010	M10
2/SSF/014	M12
2/SSF/018	M16



Lock Nut (Nyloc)

Part No.	Size
2/SSF/06LN	M6
2/SSF/08LN	M8
2/SSF/10LN	M10
2/SSF/12LN	M12
2/SSF/16LN	M16



Spring Washer

Part No.	Size
2/SSF/004	M6
2/SSF/008	M8
2/SSF/012	M10
2/SSF/016	M12
2/SSF/020	M16



Flat Washer Form B

Part No.	Size
2/SSF/003	M6 x 12.5
2/SSF/007	M8 x 17
2/SSF/011	M10 x 21
2/SSF/015	M12 x 24
2/SSF/019	M16 x 30



Penny Washer Form G

Part No.	Size
2/SSF/002	M6 x 18
2/SSF/006	M8 x 24
2/SSF/021	M10 x 30
2/SSF/022	M12 x 36
2/SSF/023	M16 X 48



Stainless Steel Studs

Standard Stock Lengths.

Grade A2—304.

Machine cut to length-no burrs Other lengths available to order.

Stainless Steel-Full Lengths

Part No.	Wt. Kg	D	L
2/SSF/027	0.170	M6	1000
2/SSF/028	0.308	M8	1000
2/SSF/029	0.488	M10	1000
2/SSF/030	0.707	M12	1000
2/SSF/031	1.308	M16	1000



Stainless Steel Studs

Part No.	Wt. Kg	D	L
2/SSS/08100	0.031	M8	100
2/SSS/08150	0.047	M8	150
2/SSS/08200	0.061	M8	200
2/SSS/08250	0.077	M8	250
2/SSS/10100	0.048	M10	100
2/SSS/10150	0.072	M10	150
2/SSS/10200	0.097	M10	200
2/SSS/10250	0.121	M10	250



U Bolts

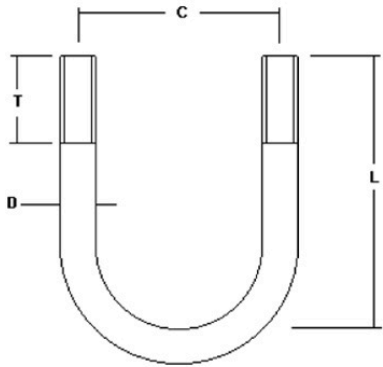
U Bolts M10

Mild Steel Bolt Grade 43A

Finish = Spun Galvanised to BS 7371

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers.

For Stainless Steel, suffix the part number with SS e.g. 2/UB/010/SS.



Part No.	C	L	D	T	Tube Size	Wt. Kg
20UB010	40	60	10	35	26.9	0.113
20UB003	46	60	10	28	33.7	0.120
20UB040	47	70	10	35	35	0.136
20UB004	54	73	10	32	42.4	0.143
20UB005	60	78	10	32	48.3	0.150
20UB006	74	90	10	32	60.3	0.172
20UB007	88	106	10	32	76.1	0.197
20UB008	100	120	10	32	88.9	0.217
20UB009	125	140	10	50	114.3	0.243

U Bolts M12

Mild Steel Bolt Grade 43A

HT = High Tensile Bolt Grade EN16T

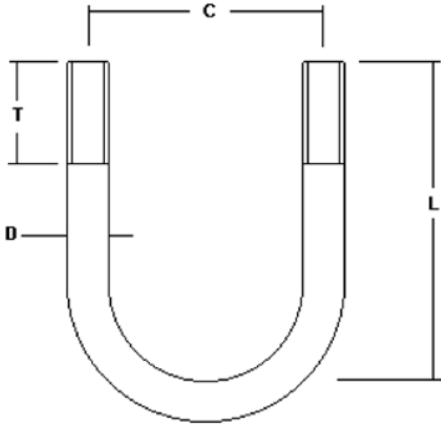
Finish = Spun Galvanised to BS 7371

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers.

For Stainless Steel, suffix the part number with SS e.g. 2/UB/010/SS.



Part No. MS	Part No. HT	C	L	D	T	Tube Size	Wt. Kg	Series
-	20UB12025	40	65	12	35	25	0.217	-
-	20UB12033	48	77	12	45	33.7	0.231	1000
-	20UB12035	50	80	12	45	35	0.239	1000
-	20UB12040	54	85	12	45	40	0.254	1000
-	20UB12042	57	86	12	45	42.4	0.255	1000
-	20UB12045	60	90	12	45	45	0.262	1000
20UB/021	20UB12048	63	92	12	45	48.3	0.272	1000
-	20UB12048LL	63	150	12	100	48.3	0.357	1000
-	20UB12050	65	100	12	50	50	0.286	1000
-	20UB12055	70	105	12	50	55	0.300	1000
-	20UB12060	75	104	12	45	60.3	0.302	1000
-	20UB12060LL	75	160	12	100	60.3	0.378	1000
-	20UB12065	79	110	12	45	65	0.313	1000
20UB043	20UB12070	84	115	12	45	70	0.322	1000
-	20UB12076	91	120	12	45	76.1	0.339	2000
-	20UB12076LL	91	176	12	100	76.1	0.423	2000
20UB048	20UB12080	95	125	12	45	80	0.346	2000
20UB024	20UB12089	103	132	12	45	88.9	0.360	2000
-	20UB12089LL	103	190	12	100	88.9	0.451	2000
-	20UB12095	110	145	12	50	95	0.394	2000



Part No. MS	Part No. HT	C	L	D	T	Tube Size	Wt. Kg	Series
-	20UB12100	114	145	12	45	100	0.395	2000
-	20UB12114	129	158	12	45	114.3	0.423	2000
2/UB/025/LL	2/UB/12/114/LL	129	215	12	100	114.3	0.508	2000
-	2/UB/12/120	134	165	12	45	120	0.442	2000
-	2/UB/12/130	142	160	12	35	130	0.432	2000
-	2/UB/12/135	150	185	12	50	135	0.460	2000
-	20UB12139	154	183	12	45	139.7	0.483	3000
-	20UB12139LL	154	240	12	100	139.7	0.600	3000
-	20UB12150	165	190	12	40	150	0.500	3000
-	20UB12168	182	210	12	45	168.3	0.545	3000
-	20UB12180	195	220	12	50	180	0.608	3000
-	20UB12193	210	245	12	50	193.7	0.622	4000
-	20UB12219	232	263	12	50	219.1	0.684	4000

U Bolts M16

MS = Mild Steel Bolt Grade 43A

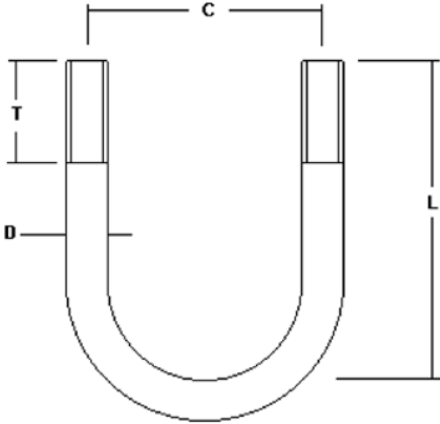
HT = High Tensile Bolt Grade EN16T

Finish = Spun Galvanised to BS 7371

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers.



Part No. MS	Part No. HT	C	L	D	T	Tube Size	Wt. Kg
20UB052	-	68	100	16	50	48.3	0.519
20UB064	-	70	100	16	50	50.0	0.525
20UB065	-	75	105	16	50	55.0	0.550
20UB053	20UB16060	80	110	16	50	60.3	0.564
20UB066	20UB16065	85	115	16	50	65.0	0.582
20UB067	-	90	120	16	50	70.0	0.610
-	20UB16076	96	126	16	50	76.1	0.630
20UB054LL	-	96	180	16	100	76.1	0.766
20UB068	-	100	130	16	50	80.0	0.642
20UB055	20UB16089	110	140	16	50	88.9	0.689
-	20UB16089LL	110	190	16	100	88.9	0.818
-	20UB16095	115	145	16	50	95.0	0.725
-	20UB16100	120	150	16	50	100.0	0.750
-	20UB16114	134	165	16	50	114.3	0.797
-	20UB16114LL	134	215	16	100	114.3	0.926
20UB061	-	140	170	16	50	120.0	0.745
20UB056LL	-	134	215	16	100	114.3	0.931
-	20UB16139	160	190	16	50	139.7	0.887



Part No. MS	Part No. HT	C	L	D	T	Tube Size	Wt. Kg
20UB057LL	-	160	240	16	100	139.7	1.032
-	20UB16150	170	200	16	50	150.0	1.003
20UB062LL	-	170	250	15	100	150.0	1.059
-	20UB16168	188	220	16	50	168.3	1.025
20UB058LL	-	188	270	15	100	168.3	1.152
-	20UB16193	214	245	16	50	193.7	1.096
20UB059LL	-	214	295	16	100	193.7	1.246
-	20UB16219	240	270	16	50	219.1	1.181
-	20UB16219LL	240	320	16	100	219.1	1.310

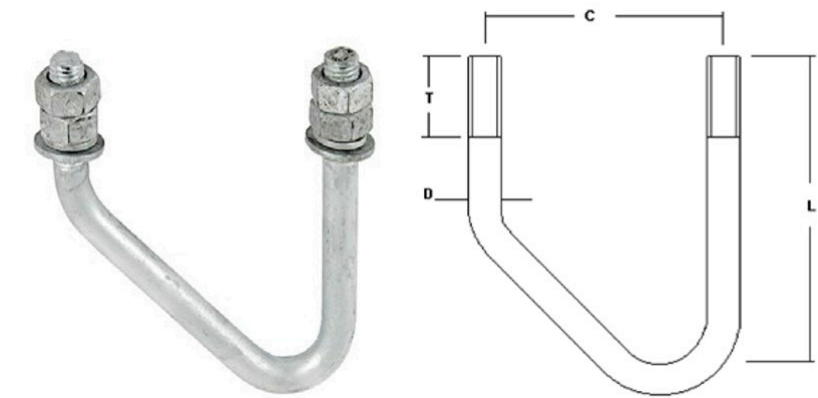
N Bolts

N Bolts M10

Mild Steel Bolt Grade 43A

Finish = Spun Galvanised to BS 7371

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers



Part No.	C	L	D	T	Angle Size	Wt Kg
2/NB/026	52	70	10	30	40 x 40	0.131
2/NB/022	57	70	10	30	45 x 45	0.136
2/NB/004	62	80	10	30	50 x 50	0.153
2/NB/005	73	90	10	30	60 x 60	0.161

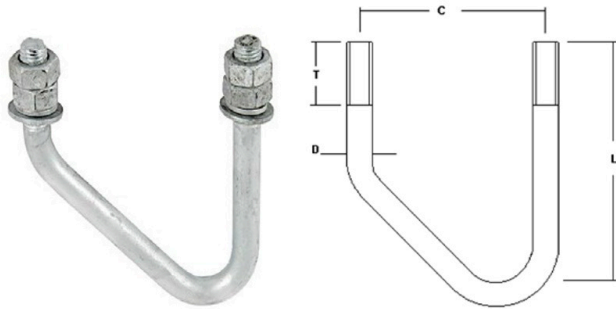
N Bolts M12 Equal Angle

MS = Mild Steel Bolt Grade 43A

HT = High Tensile Bolt Grade EN16T

Finish = Spun Galvanised to BS 7371

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers.



Part No. MS	Part No. HT	C	L	D	T	Angle Size	Wt. Kg	Series
-	2/NB/12/045	61	70	12	35	45 x 45	0.231	1000
-	2/NB/12/050	65	100	12	50	50 x 50	0.282	1000
-	2/NB/12/060	75	110	12	50	60 x 60	0.301	1000
-	2/NB/12/065	80	100	12	35	65 x 65	0.289	1000
-	2/NB/12/070	85	105	12	35	70 x 70	0.304	1000
-	2/NB/12/075	90	110	12	35	75 x 75	0.312	2000
-	2/NB/12/080	95	120	12	40	80 X 80	0.340	2000
-	2/NB/12/085	100	130	12	40	85 X 85	0.344	2000
-	2/NB/12/090	105	140	12	50	90 X 90	0.366	2000
-	2/NB/12/100	115	145	12	40	100 X 100	0.384	2000
2/NB/019	2/NB/12/115	130	165	12	50	4 1/2" X 4 1/2"	0.420	2000

Part No. MS	Part No. HT	C	L	D	T	Angle Size	Wt. Kg	Series
-	2/NB/12/120	135	170	12	50	120 X 120	0.435	2000
2/NB/020	2/NB/12/127	142	177	12	50	5" X 5"	0.458	2000
-	2/NB/12/130	145	180	12	50	130 X 130	0.446	2000
-	2/NB/12/140							
-	2/NB/12/150	165	200	12	50	150 X 150	0.491	3000
-	2/NB/12/152	170	200	12	50	6" X 6"	0.503	3000
-	2/NB/12/160	175	210	12	50	160 X 160	0.528	3000
2/NB/013	2/NB/12/200	213	260	12	50	200 X 200	0.615	4000
2/NB/025	2/NB/12/203	218	255	12	50	8" X 8"	0.609	4000
-	2/NB/12/250	265	300	12	50	250 X 250	0.735	5000

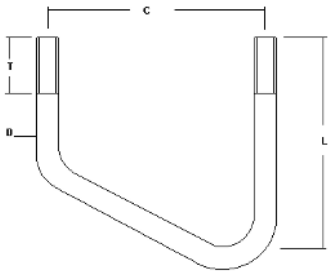
N Bolts M12 Unequal Angle

MS = Mild Steel Bolt Grade 43A

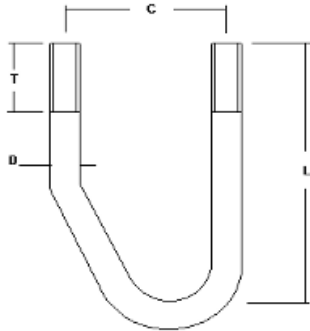
HT = High Tensile Bolt Grade EN16T

Finish = Spun Galvanised to BS 7371

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers.



Part No. HT	C	L	D	T	Angle Size	Wt. Kg	Series
2/NB/12/050/075	90	100	12	50	50 x 75	0.299	2000
2/NB/12/065/100	115	115	12	50	65 x 100	0.337	2000
2/NB/12/075/100	115	125	12	50	75 x 100	0.346	2000
2/NB/12/075/125	140	125	12	50	75 x 125	0.377	2000



Part No. MS	Part No. HT	C	L	D	T	Angle Size	Wt. Kg	Series
2/NB/101	2/NB/12/075/050	65	125	12	50	75 x 50	0.317	1000
2/NB/102	2/NB/12/100/065	80	150	12	50	100 x 65	0.352	1000
2/NB/103	2/NB/12/100/075	90	150	12	50	100 x 75	0.369	2000
2/NB/104	2/NB/12/125/075	90	175	12	50	125 x 75	0.415	2000
2/NB/105	2/NB/12/150/075	90	200	12	50	150 x 75	0.462	2000

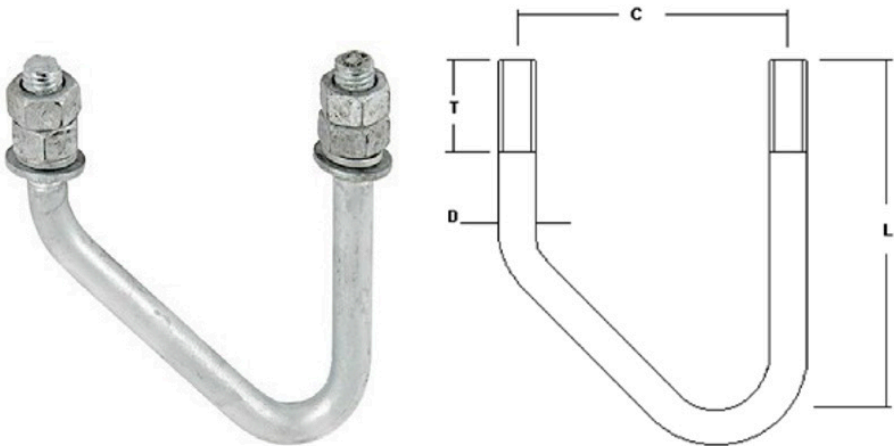
N Bolts M16

MS = Mild Steel Bolt Grade 43A

HT = High Tensile Bolt Grade EN16T

Finish = Spun Galvanised to BS 7371

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers.



Part No. HT	C	L	D	T	Angle Size	Wt. Kg	Series
2/NB/16/070	90	130	16	60	70 x 70	0.586	1000
2/NB/16/075	95	135	16	60	75 x 75	0.616	2000
2/NB/16/080	100	140	16	60	80 x 80	0.640	2000
2/NB/16/085	105	145	16	60	85 x 85	0.659	2000
2/NB/16/090	110	150	16	60	90 x 90	0.688	2000
2/NB/16/100	120	160	16	60	100 x 100	0.733	2000
2/NB/16/120	140	180	16	60	120 x 120	0.795	2000
2/NB/16/150	170	210	16	60	150 x 150	0.903	3000
2/NB/16/200	220	260	16	60	200 x 200	1.101	4000
2/NB/16/250	270	310	16	60	250 x 250	1.323	5000

Part No. MS	C	L	D	T	Angle Size	Wt. Kg	Series
2/NB/053	105	125	16	50	75 x 75	0.616	2000
2/NB/055	115	135	16	50	85 x 85	0.659	2000

Square Bolts

Square Bolt M12

MS = Mild Steel Bolt grade 43A to BS4360.

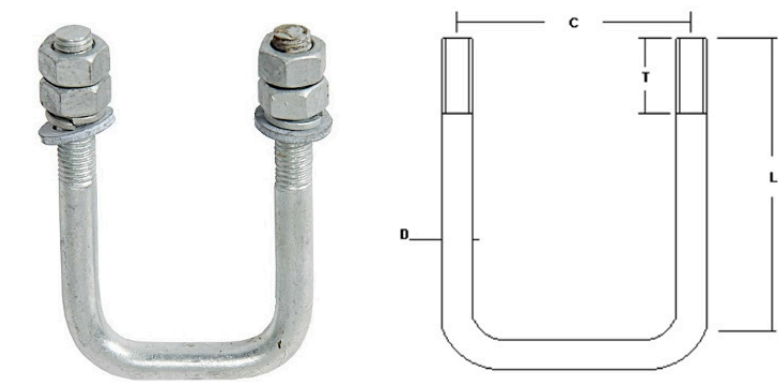
HT =High Tensile Bolt Grade EN16T.

Finish Spun Galvanized to BS 7371.

All dimensions in millimetres.

Cut threads.

Supplied with 2 full nuts, 2 flat washers and 2 spring washers



Part No. MS	Part No. HT	C	L	D	T	Box Size	Wt. Kg	Series
2/SQB/101	2/SQB/12/050	66	108	12	50	50 x 50	0.311	1000
2/SQB/102	2/SQB/12/060	76	118	12	50	60 x 60	0.336	1000
2/SQB/103	2/SQB/12/070	86	128	12	50	70 x 70	0.364	1000
2/SQB/104	2/SQB/12/080	96	138	12	50	80 x 80	0.390	2000
2/SQB/105	2/SQB/12/090	106	148	12	50	90 x 90	0.415	2000
2/SQB/106	2/SQB/12//100	116	158	12	50	100 x 100	0.445	2000
2/SQB/107	-	136	178	12	50	120 x 120	0.498	2000
2/SQB/112	2/SQB/12/150	165	200	12	50	150 x 150	0.566	3000

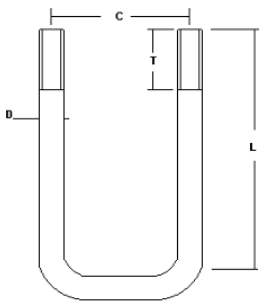
Unequal Square Bolt M12

MS = Mild Steel Bolt Grade 43A.

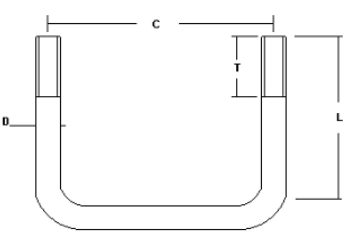
HT = High Tensile Bolt Grade EN16T.

Finish = Spun Galvanised to BS 7371.

Each Supplied with 4 Full Nuts, 2 Flat Washers and 2 Spring Washers.



Part No MS	Part No HT	C	L	D	T	Size	Series
-	2/SQB/12/102/051	67	160	12	50	102 X 51	1000
-	2/SQB/12/127/064	80	185	12	50	127 X 64	1000
2/SQB/113	2/SQB/12/152/076	91	202	12	50	152 X 76	2000
2/SQB/115	2/SQB/12/203/076	91	253	12	50	203 X 76	2000



Part No MS	Part No HT	C	L	D	T	Size	Series
-	2/SQB/12/064/127	142	122	12	50	64 X 127	2000
2/SQB/111	2/SQB/12/051/102	118	109	12	50	51 X 102	2000
-	2/SQB/12/076/152	167	125	12	50	76 X 152	3000
2/SQB/116	2/SQB/12/076/203	218	125	12	50	76 X 203	3000

V Bolts

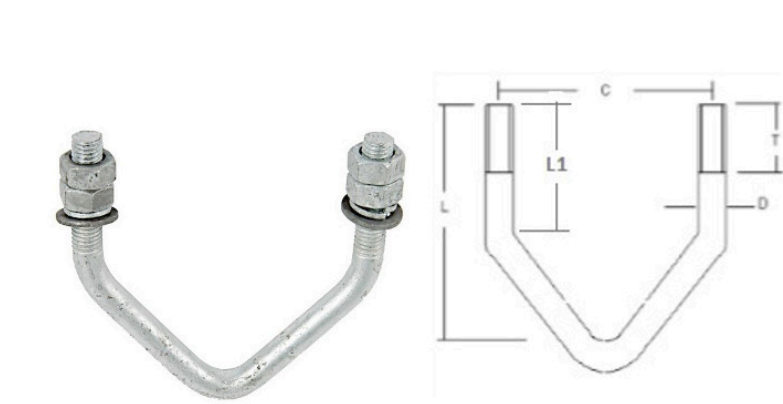
V Bolt

MS = Mild Steel Bolt Grade 43A.

HT = High Tensile Bolt Grade EN16T.

Finish Spun Galvanized to BS 7371.

Supplied with 2 full nuts, 2 flat washers and 2 spring washers



Part No MS	Part No HT	C	L	D	T	L1	Size	Series
2/VB/5039	-	72	97	10	63	-	20-60mm	N/A
2/VB/001	-	42	60	12	35	-	25mm	N/A
-	2/VB/12/0020	75	130	12	92	103	42mm - 60mm	1000
2/VB/2050	2/VB/12/2050	129	175	12	100	115	60mm -114mm	2000
-	2/VB/12/2050/LL	129	220	12	145	160	60mm -114mm	2000
-	2/VB/12/060/060	104	150	12	75	105	60 x 60 angle	1000
-	2/VB/12/100/100	164	136	12	50	60	100 x 100 angle	3000
-	2/VB/12/115/115	185	147	12	50	60	115 x 115 angle	3000
-	2/VB/12/127/127	201	158	12	50	60	5" x 5" angle	4000
-	2/VB/12/150/150	232	165	12	50	55	6" x 6" angle	4000

Hook Bolts

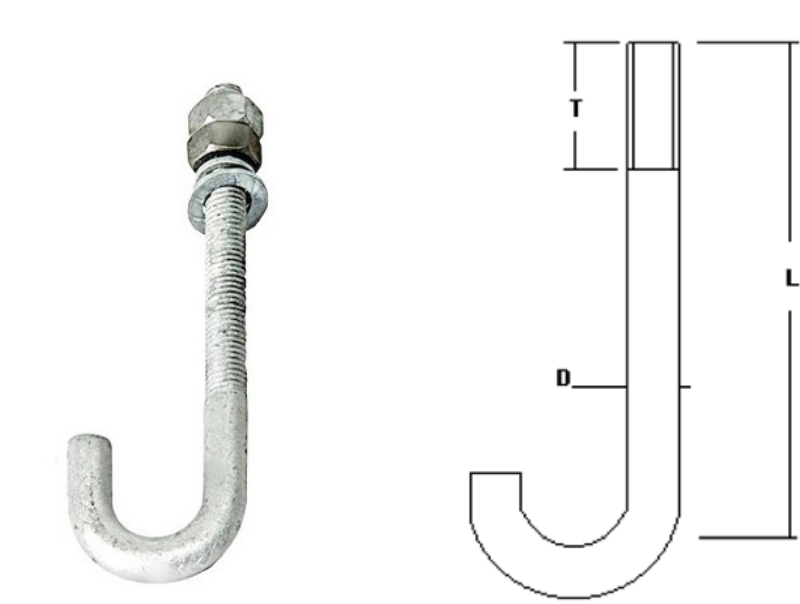
Hook Bolt

2/HB/001 Material Stainless Steel Grade 303

2/HB/002 - 2/HB/011 Material Mild Steel Grade 43A to BS 4360 Finish Spun Galvanized to BS 7371

All dimensions in millimetres Cut threads

Supplied with 2 Full Nuts, 1 Flat Washer and 1 Spring Washer Stainless Steel Bolts fabricated to order



Part No.	L	D	T	Inside gap of hook	Wt. Kg
2/HB/001	40	6	20	10	0.015
2/HB/002	80	10	40	20	0.084
2/HB/003	110	10	40	20	0.101
2/HB/004	150	10	40	24	0.131
2/HB/006	250	12	150	24	0.261
2/HB/007	200	12	150	24	0.225
2/HB/008	140	8	25	16	0.076
2/HB/010	80	8	45	16	0.049
2/HB/011	145	12	105	24	0.183



Cable and Feeder Fixing Systems

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- ▶ Cable Ladder | 80
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Cable Tray

Cable Tray Heavy Duty

Galvanized to BS ENISO 1461:1999.

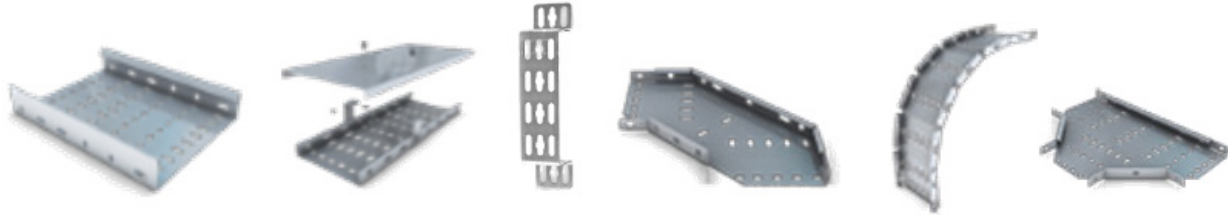
Type A trays are designed to carry heavier cables with less support than a standard tray. The depth of flange is 50mm with a return of 32mm means easier alignment when joined and adds greatly to the overall strength of the installation.

Type B trays are 25mm in depth with an 8mm return. To order couplers c/w fixings bolts request:

4/CTY/013 Type A

4/CTY/014 Type B

For ventilated covers change part number suffix from C to VC. Standard cover depth 22mm
Standard tray length 3 metres.



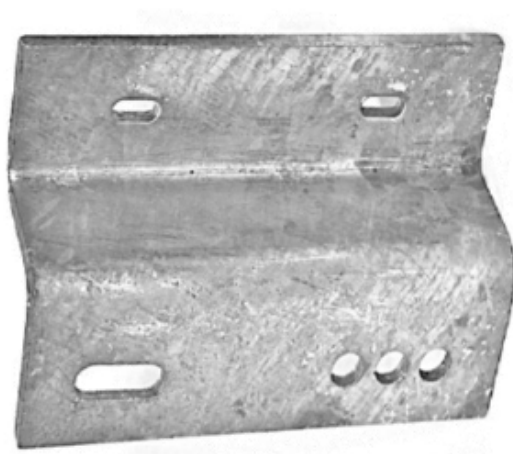
Part No.	W	D	Cover	Top Hat Bkt	90° Flat Bend	90° Inside Riser	90° Outside Riser	Equal Tee
2/CTY/001	150	50	2/CTY/001/C	2/CTY/001/THB	2/CTY/001/FB	2/CTY/001/IR	2/CTY/001/OR	2/CTY/001/ET
2/CTY/002	225	50	2/CTY/002/C	2/CTY/002/THB	2/CTY/002/FB	2/CTY/002/IR	2/CTY/002/OR	2/CTY/002/ET
2/CTY/003	300	50	2/CTY/003/C	2/CTY/003/THB	2/CTY/003/FB	2/CTY/003/IR	2/CTY/003/OR	2/CTY/003/ET
2/CTY/004	450	50	2/CTY/004/C	2/CTY/004/THB	2/CTY/004/FB	2/CTY/004/IR	2/CTY/004/OR	2/CTY/004/ET
2/CTY/005	600	50	2/CTY/005/C	2/CTY/005/THB	2/CTY/005/FB	2/CTY/005/IR	2/CTY/005/OR	2/CTY/005/ET
2/CTY/006	700	50	2/CTY/006/C	2/CTY/006/THB	2/CTY/006/FB	2/CTY/006/IR	2/CTY/006/OR	2/CTY/006/ET
2/CTY/007	100	25	2/CTY/007/C	2/CTY/007/THB	2/CTY/007/FB	2/CTY/007/IR	2/CTY/007/OR	2/CTY/007/ET
2/CTY/008	150	25	2/CTY/008/C	2/CTY/008/THB	2/CTY/008/FB	2/CTY/008/IR	2/CTY/008/OR	2/CTY/008/ET
2/CTY/009	225	25	2/CTY/009/C	2/CTY/009/THB	2/CTY/009/FB	2/CTY/009/IR	2/CTY/009/OR	2/CTY/009/ET
2/CTY/010	300	25	2/CTY/010/C	2/CTY/010/THB	2/CTY/010/FB	2/CTY/010/IR	2/CTY/010/OR	2/CTY/010/ET
2/CTY/011	450	25	2/CTY/011/C	2/CTY/011/THB	2/CTY/011/FB	2/CTY/011/IR	2/CTY/011/OR	2/CTY/011/ET
2/CTY/012	600	25	2/CTY/012/C	2/CTY/012/THB	2/CTY/012/FB	2/CTY/012/IR	2/CTY/012/OR	2/CTY/012/ET

Vertical Cable Tray Mounting Brackets

Galvanized to BS ENISO 1461:1999.

Attach to 2000 Series Vertical Poles.

For Vertical Cable Tray Bracket Kit comprising: 2 Brackets and 4 Bolts order 4/CTY/SFV/2000 Order U Bolts separately to suit size of pole.



Part No.	Description	Qty
4/CTY/SFV/2000	Mounting Kit Comprises	-
3/CTY/SFV/2000	Single Bracket	2
2/SSF/06025	M6 x 25 SS Bolt	8
2/SSF/004	M6 SS Spring Washer	8
2/SSF/002	M6 SS Penny Washer	16
2/SSF/001	M6 SS Nut	8

Cable Ladder

Heavy Duty Cable Ladder

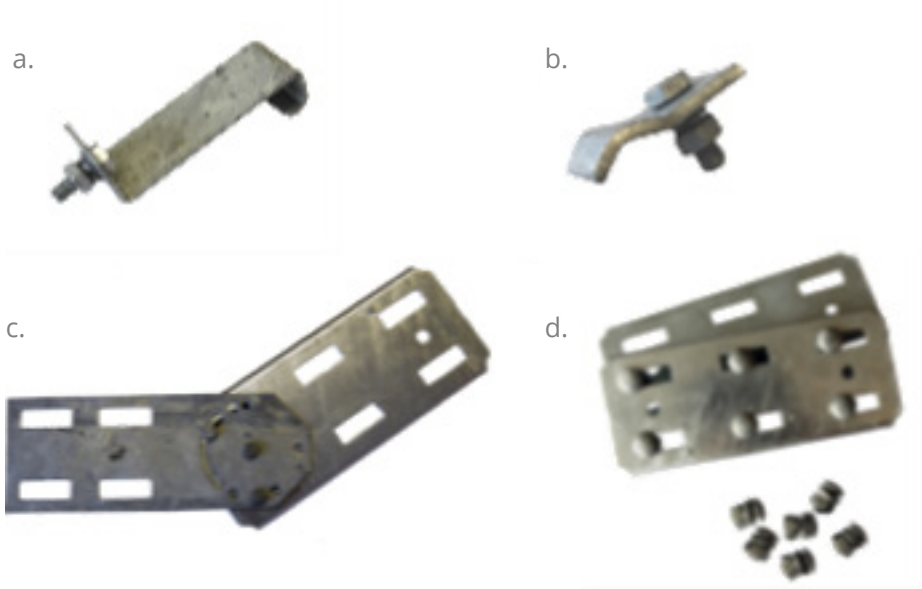
Galvanized to BS ENISO 1461:1999.

Slotted side rails.

Rung slots 35mm x 11mm.

Standard ladder length 3 metres.

Use in conjunction with the FLA cable support system.



Part No.	Description	Fig.
2/GCL/HDB/100	Hold Down Bracket (Pair)	a
2/GCL/HDC/100	Hold Down Clip	b
2/GCL/FHC/100	Flexible Horizontal Connectors (Pair)	-
2/GCL/VH/100	Vertical Hinge (Pair)	c
2/GCL/CP/100	Coupler (Pair)	d



Cable Ladder

Part No.	Width
2/GCL/150/100	150
2/GCL/300/100	300
2/GCL/450/100	450
2/GCL/600/100	600



Flat Bend

Part No.	Width
2/GCL/150/FB90	150
2/GCL/300/FB90	300
2/GCL/450/FB90	450
2/GCL/600/FB90	600



Outside Riser

Part No.	Width
2/GCL/150/OR90	150
2/GCL/300/OR90	300
2/GCL/450/OR90	450
2/GCL/600/OR90	600

Inside Riser

Part No.	Width
2/GCL/150/IR90	150
2/GCL/300/IR90	300
2/GCL/450/IR90	450
2/GCL/600/IR90	600

Cable Systems

Cable Support System-Gantry Poles

Galvanized to BS ENISO 1461:1999.

CHS S235JR BS EN 10219.

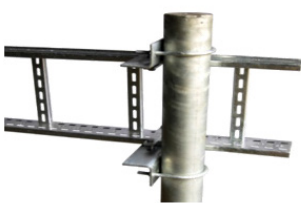
14mm holes for fixing bolts.

Heavy duty gantry poles have gussets/stiffeners.



Part No.	Pole Size	Length	Base Plate Size	Wt. Kg
3/GGP/114/3000	114.3 x 3.6	3m	300 x 300	37
3/GGP/114/3000/HD	114.3 x 5	3m	250 x 250	49
3/GGP/114/3500	114.3 x 3.6	3.5m	300 x 300	42
3/GGP/114/3500/HD	114.3 x 5	3.5m	300 x 300	55
3/GGP/114/4000	114.3 x 3.6	4m	300 x 300	47
3/GGP/114/4000/HD	114.3 x 5	4m	300 x 300	62

Part No.	Pole Size	Length	Base Plate Size	Wt. Kg
3/GGP/89/3000	88.9 x 3.6	3m	300 x 300	29
3/GGP/89/3000/HD	88.9 x 5	3m	300 x 300	40
3/GGP/89/3500	88.9 x 3.6	3.5m	300 x 300	32
3/GGP/89/3500/HD	88.9 x 5	3.5m	300 x 300	45
3/GGP/89/4000	88.9 x 3.6	4m	300 x 300	34
3/GGP/89/4000/HD	88.9 x 5	4m	300 x 300	51



Single Vertical Support Kit

Part No.	Ladder Size	Tube
4/GLR/SFV/TB	All	2.43
4/GLR/SFV/114	All	3.54



Single Horizontal Support Kit

Part No.	Ladder Size	Type
4/GLR/SF/150	150	A
4/GLR/SF/300	300	A
4/GLR/SF/450	450	B
4/GLR/SF/600	600	B
4/GLR/SF/750	750	B
4/GLR/SF/900	900	B



Double Vertical Support Kit

Part No.	Ladder Size
4/GLR/DFV/TB	All

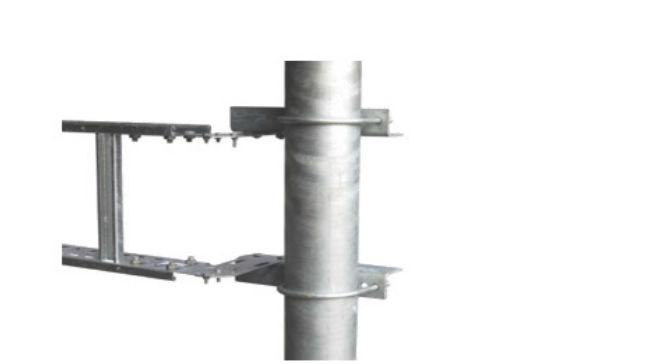


Double Horizontal Support Kit

Part No.	Ladder Size
4/GLR/DF/150	150
4/GLR/DF/300	300
4/GLR/DF/450	450
4/GLR/DF/600	600

Leg Fixing Brackets

Supplied with 2 swivel brackets and bolts.
Use 12mm fixings, order separately.



Part No.	Leg Series	Wt. Kg
4/GLR/LFB/1000	1000	3.050
4/GLR/LFB/2000	2000	3.686
4/GLR/LFB/3000	3000	4.090
4/GLR/LFB/4000	4000	4.596

Horizontal Wall Fixing Kit



Part No.	Ladder Size
4/GLR/WF/150	150
4/GLR/WF/300	300
4/GLR/WF/450	450
4/GLR/WF/600	600

Horizontal End Wall Fixing Bracket

Supplied with 2 hold down brackets and bolts



Part No.	Ladder Size	Wt Kg
4/GLR/WFB/150	150	2.43
4/GLR/WFB/300	300	3.54
4/GLR/WFB/450	450	4.47
4/GLR/WFB/600	600	5.49

Vertical Wall Fixing Bracket

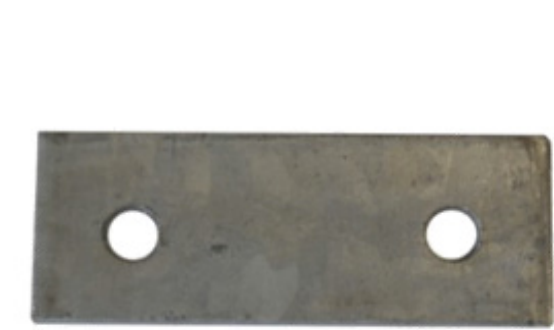


Part No.	Ladder Size
4/GLR/WFV/150	150
4/GLR/WFV/300	300
4/GLR/WFV/450	450
4/GLR/WFV/600	600

Pack Plates

Galvanized to BS ENISO 1461:1999

Ideal for supporting Cable Tray to gantry poles Holes 14mm for 12mm fixings



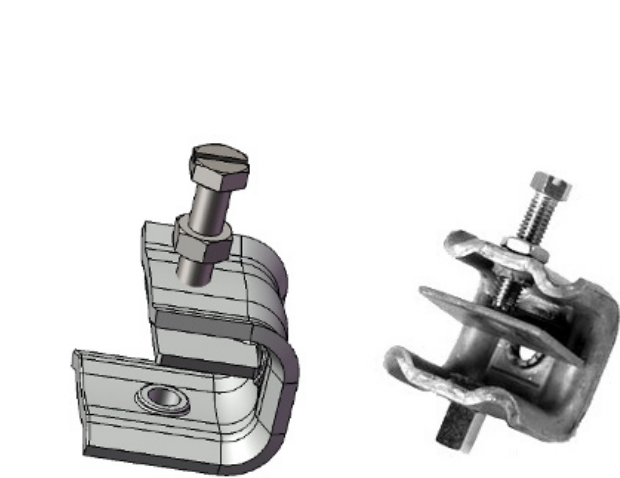
Part No.	Description	For Tube Diameter
3/PP/048/08	8mm	48.3
3/PP/048/10	10mm	48.3
3/PP/060/08	8mm	60.3
3/PP/060/10	10mm	60.3
3/PP/076/08	8mm	76.1
3/PP/076/10	10mm	76.1
3/PP/090/08	8mm	88.9
3/PP/090/10	10mm	88.9
3/PP/114/08	8mm	114.3
3/PP/114/10	10mm	114.3

Cable and Feeder Clamps

Feeder Clamps

Galvanized after manufacture to BS729 (DIN EN ISO 1461)

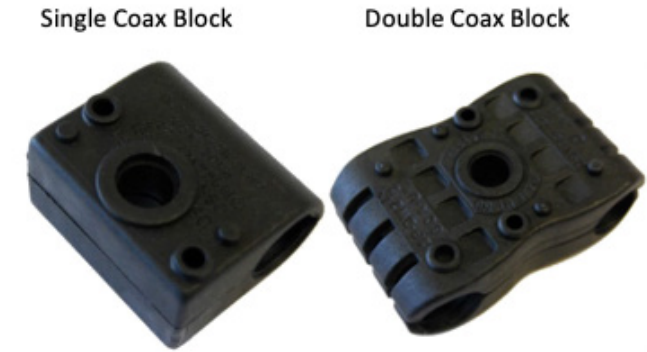
Stainless Steel Bolt, clamping up to 21mm thick.



Part No.	Description
2/FAC/001	Clamp tapped M8
2/FAC/014	Clamp tapped M10
2/FAC/002S	M8 > M6 Reducer (Stainless Steel)
2/FAC/003	M8 > M10 Increaser

Coax Blocks

Material: Polypropylene
Single and Double



Part No	Description	Cable Size	Fixing Bolt mm	Cable Ref
2/FCS/005	Single Clamp 2 Part	5.4	10	CAT5
2/FC/4/005	4 way Clamp 2 Part	5.4	10	CAT5
2/FC/4/010	4 way Clamp 2 Part	10	10	-
2/CC/000	Single Clamp 2 Part	11	10	-
2/FCD/011	Double Clamp			
2 Part	11	10	-	
2/CC/001	Single Clamp 2 Part	13	10	-
2/FCD/013	Double Clamp 2 Part	13	10	-
2/FCS/016	Single Clamp 2 Part	16	10	LDF4.50
2/FCD/016	Double Clamp 2 Part	16	10	LDF4.50
2/FCS/021	Single Clamp 2			
Part	21	10	HJ4.5-50	
2/FCD/021	Double Clamp 2 Part	21	10	HJ4.5-50
22CBS10028	Single Clamp 2 Part	28	10	LDF5.50
22CBD10028	Double Clamp 2 Part	28	10	LDF5.50
2/FCS/040	Single Clamp 2 Part	40	10	LDF6.50
2/FCD/040	Double Clamp 2 Part	40	10	LDF6.50
2/FCS/050	Single Clamp 2 Part	50	10	LDF7.50
2/FCD/050	Double Clamp 2 Part	50	10	LDF7.50

Cable Straps

Galvanized after manufacture to BS729
(DIN EN ISO 1461)
Stainless Steel Bolt, clamping up to 21mm thick.



Part No	Description	Cable Size	Fixing Size mm
2/CS/07/M10	Cable Strap Single Part	7.2	10
6/CS/004	Cable Strap Single Part	9	6
2/CS/10/M10	Cable Strap Single Part	9.5	10
2/CS/11/M10	Cable Strap Single Part	11.5	10
6/CS/005	Cable Strap Single		
Part	12.7	6	
6/CS/006	Cable Strap Single Part	15.2	6
6/CS/007	Cable Strap Single Part	17.8	6
6/CS/008	Cable Strap Single Part	20.3	6
2/CS/009	Cable Strap Single Part	22.8	6
2/CS/010	Cable Strap Single Part	25.4	6
2/CS/012	Cable Strap Single Part	30.4	10
2/CS/014	Cable Strap Single Part	35.6	10
2/CS/016	Cable Strap Single Part	40.6	10
2/CS/018	Cable Strap Single Part	45.7	10
2/CS/020	Cable Strap Single		
Part	50.8	10	

Cable Guard

Cable Guard is a plastic cable protection capping profile to protect cables on poles and walls.

Angled flanges on Cable Guard for wooden poles.

Flat flanges on Cable Guard for walls for a secure fixing Supplied in perforated 3m lengths.

Highly shock resistant and easily installed Lightweight and easy to transport.

All Cable Guard is supplied with screw fixing holes for easy installation. Cable Guard can also be used to protect other utility supplies on walls i.e gas, oil and water.



Part No.	Description	Internal Dia	Length	Wt Kg
2/CG/019	Cable Guard	19mm	3m	0.79
2/CG/025	Cable Guard	25mm	3m	0.84
2/CG/038	Cable Guard	38mm	3m	1.14
2/CG/050	Cable Guard	50mm	3m	1.42
2/CG/064	Cable Guard	64mm	3m	1.60
2/CG/080	Cable Guard	80mm	3m	2.00
2/CG/100	Cable Guard	100mm	3m	4.70

Cable Support Saddles

Cable Support Saddles provide an economical fixing for supporting studs onto numerous types of legs or posts.

Stainless steel banding and clips act as the fixing whilst a hexagonal recess in the saddle accommodates the bolt or nut.

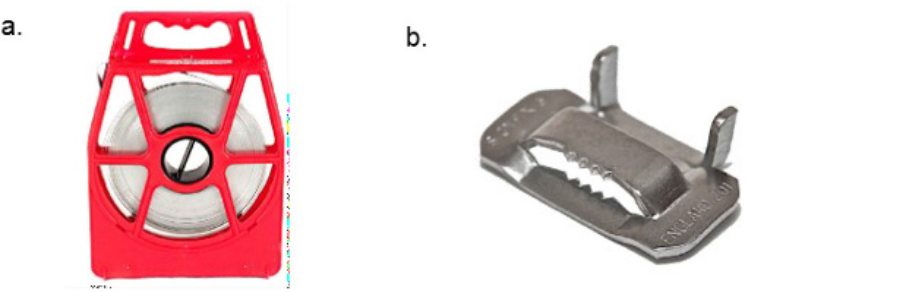
A tensioning tool incorporating cutters is used to install the banding and clips.



Part No.	Description	Radius R	Width A	Support Stud Size
2/CSS/010	Medium Saddle	50	64 mm	M10

Cable Strap Stud

Use with stainless steel banding 2/CSS/SSB or stainless steel jubilee clips 2/HC/..... which forms around the tower leg



Part No.	Description	Fig.
2/CSS/SSB	S/S Banding 30m Coil 19mm Wide	a
2/CSS/BC	Banding Clip	b
2/CSS/TT	Tensioning Tool	-

Part No.	Description	L	W
2/CSS/S10100	SS Clamp on Stud M10 x 100	100	10

Cable Ties

Material 6/6 Nylon (Black)
UV resistant with a temperature range of -40°C to +85°C
Also available are Cable Tie Markers in 'letters' or 'numbers' for identification.



Part No.	Length	Width	Max Bundle Dia
2/CT/001	240	7.8	51
2/CT/002	300	7.8	76
2/CT/003	370	7.8	102
2/CT/004	540	7.8	130
2/CT/005	750	7.8	200
2/CT/011	250	4.8	51

Hose Clips

Stainless Steel, 7mm hexagonal head screw with screwdriver slot

Other sizes available to order



Part No.	Range mm
2/HC/025035	25-35
2/HC/030040	30-40
2/HC/040050	40-50
2/HC/045060	45-60
2/HC/055070	55-70
2/HC/060080	60-80
2/HC/070090	70-90
2/HC/085100	85-100
2/HC/090120	90-120
2/HC/110140	110-140
2/HC/130150	130-150

Channel Support System

Galvanized to BS 6949 - 1988.

The quick and easy way to build a variety of supports for electrical, mechanical and industrial services.

The basic parts of channels, spring nuts and plate washers will form many an installation Channel can be supplied cut to length as required with other sizes available to order.



Part No	Description	Length
2/USC/1000T/3	41mm x 41mm Slotted Channel	3m
2/USC/4000T/3	41mm x 21mm Slotted Channel	3m
2/USC/10/ECB	41mm x 41mm Channel End Cap Black	-
2/USC/06/PN	6mm Channel Nut (no spring)	-
2/USC/06/PW	6mm Plate Washer	-
2/USC/06/SN	6mm Spring Nut	-
2/USC/08/PW	8mm Plate Washer	-
2/USC/08/SN	8mm Spring Nut	-
2/USC/08/SSN	8mm Short Spring Nut	-
2/USC/10/PW	10mm Plate Washer	-
2/USC/10/SN	10mm Spring Nut	-
2/USC/10/SSN	10mm Short Spring Nut	-
2/USC/12/PW	12mm Plate Washer	-
2/USC/12/SN	12mm Spring Nut	-



Climbing and Safety

- ▶ Climbing Ladders | 98
- ▶ Climbing Rungs | 99
- ▶ Anti-climbing Equipment | 100
- ▶ Handrails and Clamps | 104

Climbing Ladders

Climbing Ladders

Galvanized to BS 6949 - 1988.

Uncaged ladder over 2.5m must be fitted with fall arrest device Access Ladders to BS4211:1994.

Standard lengths 3m - 6m Bolt on ladder feet.

Cage hoops square or round.

Climbing ladders with or without caging can be manufactured and supplied to suit any application. Ladders to B.S standards with fixings to ‘bolt on’ climbing rungs are all available and made to the customers requirements.

Part No.	Description	Class	Width
4/ALBS/30	Un-caged	A	300
4/ALBS/38	Un-caged	B	380
4/ALBS/30/SH	Caged Square Hoop	A	300
4/ALBS/38/SH	Caged Square Hoop	B	380
4/ALBS/30/RH	Caged Round Hoop	A	300
4/ALBS/38/RH	Caged Round Hoop	B	380



We can supply clamp plates which attach our feeder brackets to the ladder to enable the feeders to run down alongside.

3/FLC/001—8mm thick 130mm x 50mm



Climbing Rungs

Bolt on Climbing Rungs

Galvanized to BS ENISO 1461:1999

16mm dia step 160mm long

Part No.	Tube Dia
4/CRC/060	60.3
4/CRC/076	76.1
4/CRC/088	88.9
4/CRC/114	114.3
4/CRC/139	139.7
4/CRC/168	168.3
4/CRC/193	193.7
4/CRC/219	219.1



Wooden Pole Climbing Rung

Galvanized to BS ENISO 1461:1999

16mm dia step 160mm long

Part No.	Description
3/CRWP/100	Rung

Anti-Climbing Equipment

Ladder Anti-Climb Plate

- 5/ACP/001
- 2400mm long
- Lockable (Padlock not supplied)
- Does not impede feeders
- Please specify width of ladder
- Width of stringer
- Rung size
- Pitch of rung



Ladder Anti-Climb Door

- 5/ACD/001
- 2450mm long
- Hinged
- Lockable
- Please specify width of ladder
- Width of stringer
- Rung size
- Pitch of rung
- Lock excluded



Bolt on Anti-Climb Spike

Galvanized to ENISO 1461:1999

Made to fit all sizes of circular and angle legs Please specify leg size



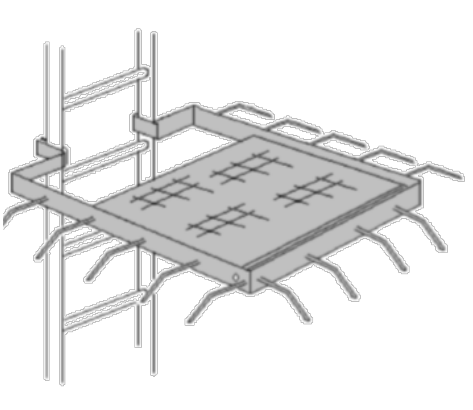
Part No.	Description
4/ACR/048	Assembly for 48.3 Tube c/w bolts
4/ACR/060	Assembly for 60.3 Tube c/w bolts
4/ACR/076	Assembly for 76.1 Tube c/w bolts
4/ACR/088	Assembly for 88.9 Tube c/w bolts
4/ACR/114	Assembly for 114.3 Tube c/w bolts
4/ACR/139	Assembly for 139.7 Tube c/w bolts
4/ACR/168	Assembly for 168.3 Tube c/w bolts
4/ACR/193	Assembly for 193.7 Tube c/w bolts
4/ACR/219	Assembly for 219.1 Tube c/w bolts

Anti-Climb Hoop

5/ACH/001

Galvanized to BS ENISO 1461:1999

Brackets to suit 3 and 4 leg Angle or Tube towers.



Barbed Wire and Brackets

Galvanized to BS ENISO 1461:1999

Brackets to suit 3 and 4 leg Angle or Tube towers.

2/ACW/200 – Barbed wire 200m reel



Part No.	Tower Legs	Leg Series
4/ACB/1003	3	1000
4/ACB/2003	3	2000
4/ACB/3003	3	3000
4/ACB/4003	3	4000
4/ACB/1004	4	1000
4/ACB/2004	4	2000
4/ACB/3004	4	3000
4/ACB/4004	4	4000

Handrails and Clamp Fittings

Handrail

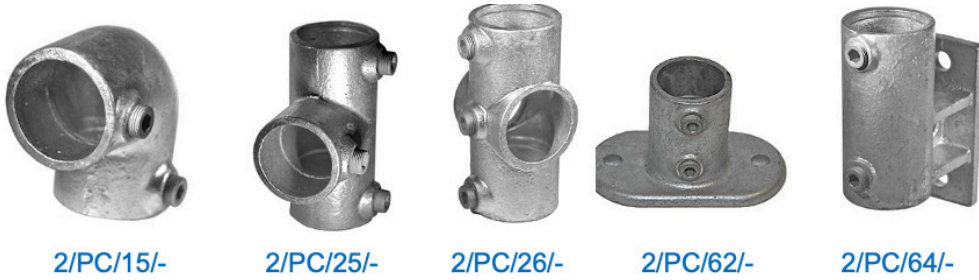
Galvanized to ENISO 1461:1999 Ideal for building handrails.
Full range available to order.

Part No.	For Tube Dia.	Wt. Kg/m
2/PCT/06	33.7	2.43
2/PCT/07	42.4	3.13
2/PCT/08	48.3	3.60



Pipe Clamps

Galvanized to BS ENISO 1461:1999.
Designed for handrails, access platforms and guard rails Standard sizes available for 33.7, 42.4 and 48.3Ø tube.
Individual fittings and tubes from stock or designed and manufactured for bespoke applications.
Suffix part number with 6/7/8 as above handrail sizes.
Please note: We can supply other size handrail and clamps. These listed are just some of the common sizes.



Platform Fixing Clips

Used to fix down open steel flooring. We can also supply flooring to customer requirements



Free Standing Handrail System

Galvanized to ENISO 1461:1999c

System that does not penetrate the roof membrane

Only available in 48.3Ø



Part No.	Description	Wt. Kg
2/FSH//UP/101	Handrail Upright	8.0
2/FSH/ICW/1575	Intermediate Counter Balance Weight (25kg)	66.0
2/FSH/ECW/1575	End Counter Balance Weight (50 kg)	30.0
2/FSH/EB/08	Elbow	0.7
2/FSH/WF/08	Wall Flange	0.6
2/FSH/SJ/08	Sleeve Joint	0.5
2/PCT/08	Hand & Knee Rail Tube	3.60

Skylight Protection Guardrail

The safety Solution for Skylight Fall Protection Designed specifically to prevent falls through skylights.

Free standing and eliminates risk of damage to the roof membrane.

Kee Dome—48.3 O/D tube.

Kee Dome Mini—33.7 O/D tube.

Suitable for use on all roof surfaces with a maximum of 3 degrees.

Various sizes are available designed around standard tube lengths of 1.5, 2.0 or 3.2 metres An optional gate can be incorporated for access to roof hatches.

Mini kits c/w mesh on top.



Kit No.	Description
5/KDH1	Kee Dome 3mtr x 1.5mtr
5/KDH3	Kee Dome 2mtr x 1.5mtr c/w gate
5/KDK2	Kee Dome 2mtr x 2mtr
5/KDK3	Kee Dome 4mtr x 2mtr
5/KDK12	Kee Dome Mini 1.2mtr x 1.2mtr c/w mesh
5/KDK18	Kee Dome Mini 1.8mtr x 1.8mr c/w mesh



Earthing Equipment

- ▶ Earth Conductors | 110
- ▶ Clamps and Fixings | 112
- ▶ Lightning Protection | 114

Earth Conductors

Copper Tape

Part No.	Size
2/EAT/006	25 x 3
2/EAT/008	25 x 6



PVC Covered Copper Tape (Green)

Part No.	Size
2/EAT/206	25 x 3
2/EAT/208	25 x 6



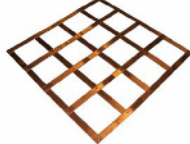
PVC Covered Copper Tape (Brown)

Part No.	Size
2/EAT/406	25 x 3



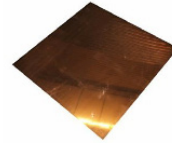
Lattice Earth Mat

Part No.	Size
2/EAM/005	600mm sq 25 x 3 Tape



Solid Copper Earth Mat

Part No.	Size
2/EAM/002	600mm sq. 3 mm thick



Earth Rod & Fittings

Part No.	Size
2/EAR/016	16mm Coupler
2/EAR/019	16mm Stud
2/EAR/005	Rod 16mm x 1.2m
2/EAR/006	Rod 16mm x 1.5m

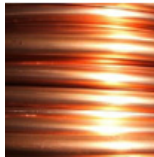


Aluminium Tape

Part No.	Size
2/EAT/106	25 x 3

Copper Circular

Part No.	Size
2/EAT/050	8mm Dia



Inspection Pits

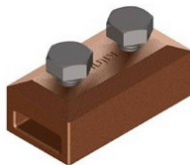
Part No.	Material
2/EIP/001	Polymer
2/EIP/002	Concrete



Clamps and Fixings

Test & Junction Clamps

Part No.	Description	Wt. Kg
2/ETC/001	25mm Tape	0.398

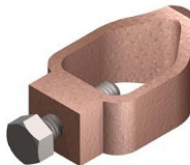


Tape Clip

Part No.	Description	Wt. Kg
2/ECF/012	25 x 3 Copper	0.027
2/ECF/112	25 x 3 Ali	0.027

Rod-Conductor Clamps

Part No.	Description	Wt. Kg
2/ERC/017	16mm Rod to Wire	0.107
2/ERC/001	16mm Rod to Tape 25mm	0.123



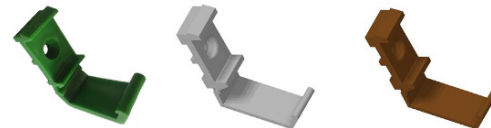
Metallic DC Clips

Part No.	Description	Wt. Kg
2/ECF/007	25 x 3	0.074



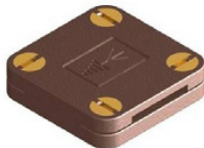
Non Metallic Tape Clips

Part No.	Description	Wt. Kg
2/ECF/003	N/M Clip for Bare 25mm Copper Tape	0.008
2/ECF/103	N/M Clip for Bare 25mm Ali Tape	0.010
2/ECF/203	N/M Clip for PVC Covered Green 25mm Tape	0.010
2/ECF/403	N/M Clip for PVC Covered Brown 25mm Tape	0.010
2/ECF/503	N/M Clip for PVC Covered Grey 25mm Tape	0.010



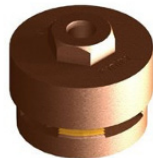
Square Test/Junction Clamps

Part No.	Description	Wt. Kg
2/ETC/003	4 way clamp for 25 x 3 Tape	0.224
2/ETC/004	4 way clamp for 25 x 6 Tape	0.500
2/ETC/103	4 way clamp for 25 x 3 Ali Tape	0.224



Round Screw Clamp

Part No.	Description	Wt. Kg
2/ETC/005	For 25mm Tape	0.830



Round Plate Clamp

Part No.	Description	Wt. Kg
2/ETC/008	For 25mm Tape	0.452



Lightning Protection

Earth Rod and Fittings

Part No.	Wt Kg	L mm
4/LF/0516	0.855	500
4/LF/1016	1.632	1000
4/LF/1516	2.450	1500
4/LF/2016	3.200	2000



Finial Bracket

Order 2x fixing bolts per bracket

Part No.	Wt Kg	Series
3/LFB/116	1.607	1000
3/LFB/216	2.158	2000



Sacrificial Earth

Part No.	Wt Kg	Series
3/SEL/100	0.542	1000
3/SEL/200	0.726	2000
3/SEL/300	0.852	3000
3/SEL/400	1.117	4000



Earth Bonding Strap

Other sizes to order

Part No.	Lugs mm	L mm
3/EBS/25/250/10/10	10	250
3/EBS/25/350/10/10	10	350
3/EBS/50/250/10/10	10	250
3/EBS/50/350/10/10	10	350





Guy Hardware

enquire@fla-intermex.co.uk

Wire and Fibre Ropes

Wire ropes are of galvanized strand, right hand lay and supplied in the 3 types of construction shown.

The Parafil rope is formed from continuous high strength synthetic fibres encased in a tough durable polymeric sheath.



Part No.	Overall Dia	Construction	Min Breaking Load Tonnes	Wt. Kg/100m
2/GSS/005	3mm	7 x 7	0.55	3.40
2/GSS/006	4mm	7 x 7	0.97	6.10
2/GSS/007	5mm	7 x 7	1.51	10.60
2/GSS/012	3mm	7 x 19	0.51	3.34
2/GSS/013	4mm	7 x 19	0.91	5.90
2/GSS/014	5mm	7 x 19	1.42	9.30
2/GSS/015	6mm	7 x 19	2.04	13.40
2/GSS/016	8mm	7 x 19	4.56	23.70
2/GSS/017	10mm	7 x 19	6.53	37.00

Parafil

Parafil type F-Kevlar 29 core.

Fork end terminations are available for all Parafil ropes.

Parafil is the original parallel laid fibre synthetic rope.

The structure ensures that Parafil ropes have high strength coupled with low weight.

A range of easy to fit end fittings are available. For information and prices please contact our sales team.



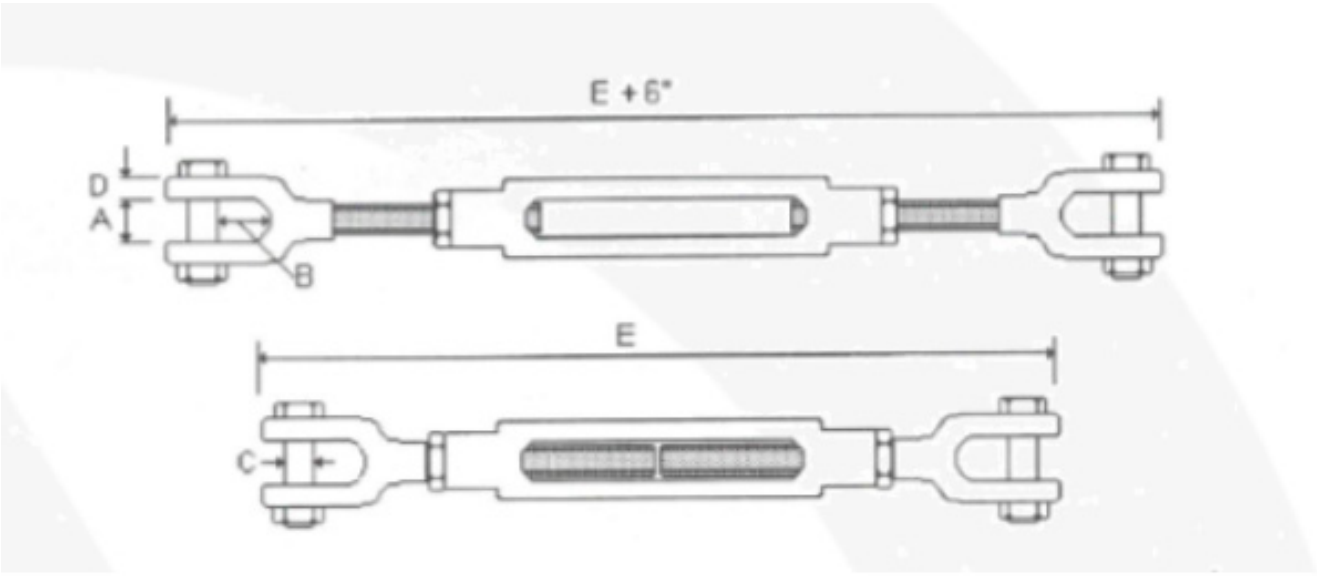
Turnbuckles

To U.S Federal Specification FFT-791.B

Fitted with lock nuts

All turnbuckles are drop-forged high tensile steel, hot dipped galvanized and proof load tested to 1.5 x S.W.

Part No.	Wt. Kg	A	B	C	D	E	F	S.W.L Kg
2/RS/005	0.37	10 / 3/8"	22.2	7.94	7.94	302	11	540
2/RS/006	0.79	12 / 1/2"	27	9.53	10.30	338	16	1000
2/RS/007	1.37	16	33.3	12.70	12.70	394	18	1590
2/RS/008	1.86	20	38.1	15.90	14.30	432	22	2360

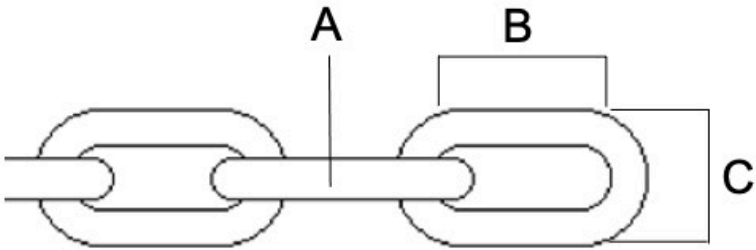


Long Link Chain

Galvanized to BS 590 or Stainless Steel Grade 316

Mild steel, commercial quality (not to be used for lifting applications)

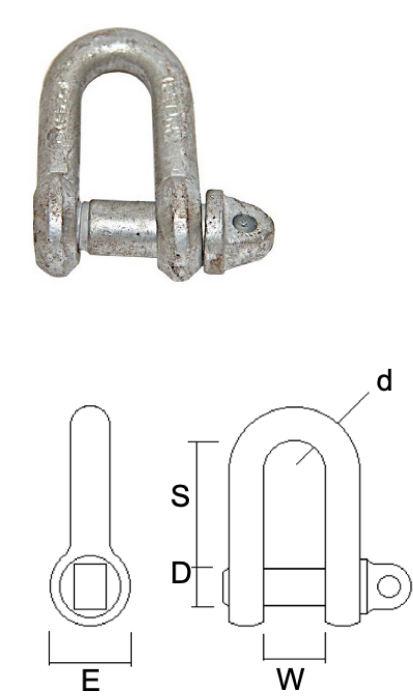
Part No.	Dia A Inch	Dia A mm	Length B mm	Width C mm	Min Breaking Load Kg	Weight Per Metre
2/GLLC/05	3/16	5	25	21	1000	0.53
2/GLLC/07	1/4	7	38	29	1250	0.63
2/GLLC/08	5/16	8	50	33	2500	1.08
2/GLLC/10	3/8	10	50	38	4000	1.57
2/GLLC/13	1/2	12.7	66	48	6300	2.95
2/GLLC/16	5/8	16	100	60	10000	4.45
2/GLLC/20	3/4	20	125	75	16000	7.00



‘D’ Shackles

Galvanized to BS 3032

S.W.L = 1/6 of breaking load.



Small D (SSD)

Part No.	Vertical S.W.L Kg	d	D	W	S	E
2/SSD/001	305	6	10	10	22	19
2/SSD/002	610	10	13	16	34	25
2/SSD/003	1016	13	16	22	49	32
2/SSD/004	1778	16	19	25	57	38
2/SSD/005	2540	19	22	32	70	44

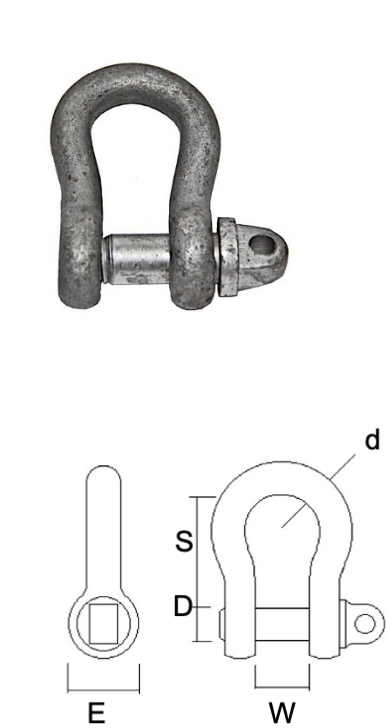
Large D (SLD)

Part No.	Vertical S.W.L Kg	d	D	W	S	E
2/SLD/001	254	6	10	13	25	19
2/SLD/002	508	10	13	19	38	25
2/SLD/003	762	13	16	28	54	32
2/SLD/004	1524	16	19	32	64	38
2/SLD/005	2032	19	22	38	74	44

Bow Shackles

Galvanized to BS 3032

S.W.L = 1/6 of breaking load



Small Bow (SSB)

Part No.	Vertical S.W.L Kg	d	D	W	S	B	E
2/SSB/001	203	6	10	13	25	16	19
2/SSB/002	504	10	13	16	38	22	25
2/SSB/003	1016	13	16	22	51	28	32
2/SSB/004	1524	16	19	28	64	38	38
2/SSB/005	2032	19	22	34	76	44	44

Large Bow (SLB)

Part No.	Vertical S.W.L Kg	d	D	W	S	B	E
2/SLB/001	152	6	10	13	28	19	19
2/SLB/002	457	10	13	16	41	25	25
2/SLB/003	762	13	16	22	54	32	32
2/SLB/004	1270	16	19	28	70	41	38
2/SLB/005	2032	19	22	34	85	51	44

Thimbles

All rope thimbles are hot dipped galvanized finish.

The larger reeving thimble is used mainly on large diameter ropes and where guy grips are used.

Reeving Thimble

Part No.	To Suit Guy Grip
2/OT/08PF	8mm
2/OT/10PF	10mm
2/OT/12PF	12mm



Heart Shaped Thimble

Part No.	To Suit Rope Dia
2/OT/03H	3mm
2/OT/05H	5mm
2/OT/06H	6mm
2/OT/08H	8mm
2/OT/10H	10mm
2/OT/12H	12mm

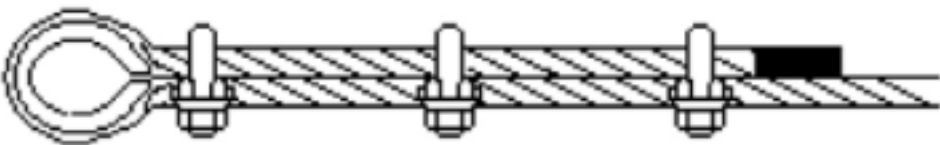


Galvanized Commercial Wire Rope Grip

Galvanized to BS 3032

S.W.L = 1/6 of breaking load

Part No.	To Suit Rope Dia
2/WRG/101	3mm
2/WRG/102	5mm
2/WRG/103	6mm
2/WRG/104	8mm
2/WRG/105	10mm
2/WRG/106	12mm





Anchors

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Delta Anchor

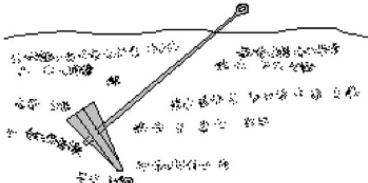
Galvanized to BS ENISO 1461:1999

The Delta Ground Anchor is a triangular shaped alloy casting or forging with a wire cable fitted through 2 holes in the body.

The design of the Delta combines optimum installation characteristics with heavy duty performance capabilities to give a dependable earth anchoring system at reduced installation costs. The slender design shape gives minimum resistance when driven into the ground and then when an upward force is applied to the attached cable the anchor turns perpendicular to the cable for maximum holding power.

A hole in one corner permits fitting of a secondary bond which can be used to recover the anchor for re-use where ground conditions permit.

Holding capacities are the average values obtained in a series of tests. Experience has shown that the nature of soil and depth of anchor govern the ‘pull out’ loads and therefore we avoid giving values for Delta Anchors.



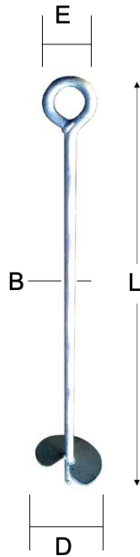
Part No.	Area of Anchor	Wt. inc. cable Kg	Cable length	Recom'd Depth	Best Soil	Average Soil	Loose Sand
4/DA/002	91 sq cm	0.5	1.33m	1m	1454kg	658kg	254kg

Part No.	Description
3/DR/101	Driving Rod

Screw Type Ground Anchor

Galvanized to BS ENISO 1461:1999

Part No.	D	L	E	B	Wt. Kg
3/SGA/001	150	760	50	20	3
3/SGA/002	203	1220	56	25	7
3/SGA/003	254	1524	70	35	12
3/SGA/004	305	1676	75	40	20



T Ground Anchor

Finish 1 coat red oxide primer

Part No.	L	Hole Dia	Hole Pitch	Wt. Kg
3/TGA/001	600	18	50	3
3/TGA/002	1000	22	50	7



Tools and Hardware

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Paint

Part No.	Description
2/GPB/1000	Zinc rich cold galvanizing brush
2/GPB/2500	Zinc rich cold galvanizing brush
2/GSP/400	Zinc rich cold galvanizing spray paint 400 ml
2/ACP/2500	Anti-climb paint

Tape

Part No.	Description
2/DENSO/050	Denso Tape - Petroleum based neutral compound on
2/ET/19/33	Black Electrical Tape 19mm x 33 metres

Self Amalgamating Tape

Part No.	Description
2/SAT/040	Based on Polyisobutylene 38mm x 10 metres
2/SAT/20/10	Based on Polyisobutylene 20mm x 10 metres

Tube Caps

Material 9238 standard UV resistant vinyl with a length of 38mm Other sizes are available to order for square hollow section.

Tube Caps are for the protection of tube ends where trimming has left the cut unprotected, to stop rain water filling the base sealed tubes or even to finish off the quality installation.

Part No.	Tube Dia
2/VTC/042	42.0
2/VTC/048	48.3
2/VTC/060	60.3
2/VTC/076	76.1
2/VTC/089	88.9
2/VTC/114	114.3



Thread Caps

Material 9238 standard UV resistant vinyl

Thread protection caps to cover cut bolt or threaded rod ends and give protection to personnel.

Part No.	Thread Size	Thread Cover
2/VTP/008	8mm	25mm
2/VTP/010	10mm	25mm
2/VTP/012	12mm	20mm
2/VTP/016	16mm	20mm



Tools & Consumables

Part No.	Description
2/CPB/050	2" Contract Paint Brush
2/CPB/075	3" Contract Paint Brush
2/CPB/100	4" Contract Paint Brush
2/MDB/012	12mm Masonry Bit
2/MDB/014	14mm Masonry Bit
2/MDB/016	16mm Masonry Bit
2/MDB/018	18mm Masonry Bit
2/MDB/020	20mm Masonry Bit
2/MDB/025	25mm Masonry Bit
2/SGC/100	Clear Safety Goggles

Bolt	Spanner	Combination	Ring Podger	O/E Podger
M6	10mm	2/CPS/010	-	-
M8	13mm	2/CPS/013	-	-
M10	17mm	2/CPS/017	2/PSP/17/R	2/PSP/17/O
M12	19mm	2/CPS/019	2/PSP/19/R	2/PSP/19/O
M16	24mm	2/CPS/024	2/PSP/24/R	2/PSP/24/O
M20	30mm	2/CPS/030	2/PSP/30/R	2/PSP/30/O
M10/12	17/19mm	2/PRC/1719	Ratchet Podger	



Cable Drum Rollers

Galvanized to ENISO 1461:1999

Galvanized frames with 2 position setting for various drum sizes.

Drum rollers ease the handling of cable drums while running feeders on site. Compact and easily stowed make them a must for all installation teams.

Lockable rollers to ease drum positioning and anchor points for added stability.

Part No.	Description
4/CDR/1000	Set of 2 frames



Pipe Flashing

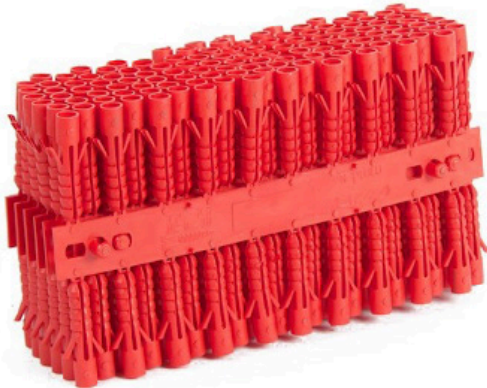
Sealing tightly with silicone sealant and any type fastener, the infinitely flexible base is compatible with virtually any roofing material - metal, plastic, asphalt, tile, rubber membrane and more.

Part No.	Pipe O/D mm
2/PF/001	6-50
2/PF/002	32-76
2/PF/003	6-102
2/PF/004	76-114
2/PF/005	102-178
2/PF/006	127-228
2/PF/007	152-280
2/PF/008	178-330
2/PF/009	254-467
2/PF/010	330-660



Screws

Part No.	Description
2/PHS/05050	Pozihead screw M5 x 50
2/SCP/05	Screw Plug M5





Aircraft Warning Lights

AWL/L100 Series - ICAO Low Intensity Group A LED Obstacle Lamp

Key features

- Economical but based on LED - technology
- Extremely reliable - long lifetime
- Very low power consumption
- Available in 10-55v DC & 115 V AC—230 V AC versions
- Stabilised light output
- Very lightweight and small. low wind load factor
- Easy to install, custom mounting options
- 1 year manufacturer warranty

Benefits

- Long maintenance intervals
- Low energy cost
- Supply voltage variations : light output is not effected
- Very low total lifetime costs
- Low wind loading

Specifications met

- ICAO International Standards and Recommended Practices : Aerodromes - Annex 14 Volume 1, 3rd Edition, July 1999, Chapter 6: Low-intensity, Type A Fixed Obstacle Light

Optical characteristics

- Intensity better than 10cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Angle of max rated brilliance +3° vertical

Electrical characteristics

- Nominal power consumption 4W
- Operating voltage ranges
- 12 to 55 VDC part No. 6/AWL/L104/s
- 115 to 230 VAC part No. 6/AWL/L167/s
- Recommended fuse rating 500mA / RCD protection.

Mechanical characteristics

- Pre-moulded dome & housing
- M20 base gland entry
- Terminal box - LN wires
- Degree of protection IP65
- Operating temperature range. -20°C to +55°C
- Supplied with 4 x ss M4 x 20 Ph-n-w
- Height 235mm, diameter 90mm, weight 0.5kg



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AWL/L200 Series - ICAO Low Intensity Group A LED Obstacle Lamp

Key features

- Based on LED - technology
- Extremely reliable - long lifetime
- Suitable for off- shore use
- Very low power consumption
- Available in 24-60v DC, 115 V AC and 230 V AC versions
- Stabilised light output
- Lightweight and small. low wind load factor
- Easy to install, custom mounting options
- Two cable glands, easy to chain
- No RF-radiations
- Five (5) year manufacturer warranty

Benefits

- Long maintenance intervals
- Low energy cost
- Supply voltage variations : light output is not effected
- Very low total lifetime costs
- Low wind loading

Specifications met

- ICAO International Standards and Recommended Practices : Aerodromes - Annex 14 Volume 1, 3rd Edition, July 1999, Chapter 6: Low-intensity, Type A Fixed Obstacle Light

Optical characteristics

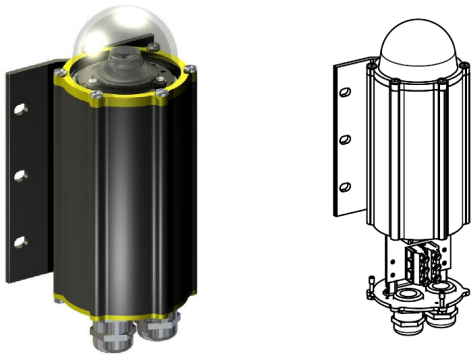
- Intensity better than 10cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 15°
- LED supply current stabilised by constant current generator
- Light output degradation less than 30% after 100,000hrs of operation

Electrical characteristics

- Power consumption less than 3VA, 3W
- Operating voltage ranges
 - 24 to 60 VDC part No. 6/AWL/L204/s
 - 105 to 125 VAC part No. 6/AWL/L206/s
 - 210 to 270 VAC part No. 6/AWL/L207/s
- Overvoltage protection.

Mechanical characteristics

- Anodised, marine grade aluminium body and end parts
- AISI 316 acid proof steel screws
- Colourless (clear) glass cover
- Terminal box - 6mm 2 wires
- Degree of protection IP65
- Operating temperature range. 55°C to +55°C
- Height 210mm, diameter 104mm, weight 1.1kg—Supplied with 4 x ss M6 x 20 bnw
- Other options available –additional Infra Red o/p -inbuilt photocell & Alarm



AWL/L300 Series - ICAO Low Intensity Group B LED Obstacle Lamp

Key features

- Based on LED - technology
- Extremely reliable - long lifetime 100000 lit hours
- Suitable for off- shore use
- Very low power consumption
- Available in 24-60v DC, 115 V AC and 230 V AC versions
- Stabilised light output
- Lightweight and small. low wind load factor
- Easy to install, custom mounting options
- Two cable glands, easy to chain
- No RF-radiations
- Five (5) year manufacturer warranty

Benefits

- Long maintenance intervals
- Low energy cost
- Supply voltage variations : light output is not effected
- Very low total lifetime costs
- Low wind loading

Specifications met

- ICAO International Standards and Recommended Practices : Aerodromes - Annex 14 Volume 1, 3rd Edition, July 1999, Chapter 6: Low-intensity, Type B Fixed Obstacle Light

Optical characteristics

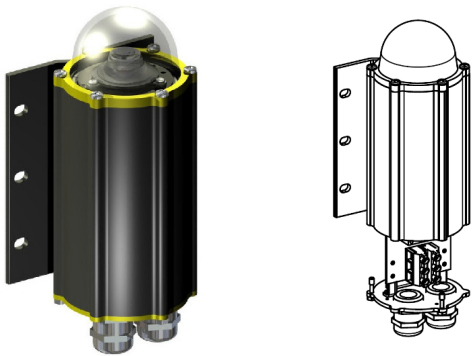
- Intensity better than 32.5cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 15°
- LED supply current stabilised by constant current generator
- Light output degradation less than 30% after 100,000hrs of operation

Electrical characteristics

- Power consumption less than 4VA, 4W
- Operating voltage ranges:
 - 24 to 60 VDC part No. 6/AWL/L304/s
 - 105 to 125 VAC part No. 6/AWL/L306/s
 - 210 to 270 VAC part No. 6/AWL/L307/s
- Overvoltage protection.

Mechanical characteristics

- Anodised, marine grade aluminium body and end parts
- AISI 316 acid proof steel screws
- Colourless (clear) glass cover
- Terminal box - 6mm 2 wires
- Degree of protection IP65
- Operating temperature range. 55°C to +55°C
- Height 210mm, diameter 104mm, weight 1.1kg



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AWL/L300I Series - ICAO Low Intensity Group B LED Obstacle Lamp with infrared

Key features

- Night Vision Goggle compatible
- Based on LED - technology
- Extremely reliable - long lifetime 100000 lit hours
- Suitable for off- shore use
- Very low power consumption
- Wide input voltage range
- Stabilised light output
- Lightweight and small. low wind load factor
- Easy to install, custom mounting options
- Two cable glands, easy to chain
- No RF-radiations
- Five (5) year manufacturer warranty

Benefits

- Long maintenance intervals
- Low energy cost
- Supply voltage variations : light output is not effected
- Very low total lifetime costs
- Low wind loading

Specifications met

- ICAO International Standards and Recommended Practices : Aerodromes - Annex 14 Volume 1, 3rd Edition, July 1999, Chapter 6: Low-intensity, Type B Fixed Obstacle Light

Optical characteristics

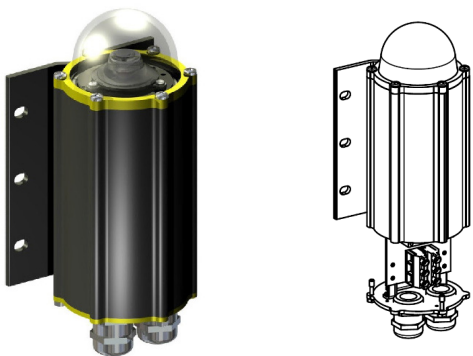
- Infrared wavelength 850mm
- Intensity better than 32.5cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 15°
- LED supply current stabilised by constant current generator
- Light output degradation less than 30% after 100,000hrs of operation

Electrical characteristics

- Power consumption less than 4VA, 4W
- Operating voltage ranges
 - 24 to 60 VDC part No. 6/AWL/L304I/s
 - 105 to 125 VAC part No. 6/AWL/L306I/s
 - 210 to 270 VAC part No. 6/AWL/L307I/s
- Overvoltage protection

Mechanical characteristics

- Anodised, marine grade aluminium body and end parts
- AISI 316 acid proof steel screws
- Colourless (clear) glass cover
- Terminal box - 6mm 2 wires
- Degree of protection IP65
- Operating temperature range. 55°C to +55°C
- Height 210mm, diameter 104mm, weight 1.1kg



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AWL/OL1V- Series - ICAO Low Intensity Group B LED

Key features

- Highly reliable LED based, very long life, low power consumption
- Low intensity obstacle lamp
- Meets the current ICAO requirements for low intensity Group A & B.
- Effective Candela Output = 32.5cd
- Power Consumption Nominal 10 Watts
- Life Expectancy - 10 years
- Light Output Colour - Red
- Corrosion resistant Velox resin body
- Lens — Acrylic
- Fixing: 3/4" NPT
- Fitted with 1m flying lead - supplied with brass gland adaptor 3/4" npt - M20
- Dimensions:- 130mm Dia x 210mm high

Available part No.

- 6/AWL/OL1VLED3 12VDC—24VDC
- 6/AWL/OL1VLED4 48VDC
- 6/AWL/OL1VLED2 115VAC-240VAC

Complies with

- BS 3224 Part 6 Obstacle Light Fittings
- ICAO Annex 14, Vol. 1 - Aerodromes
- ICAO Annex 14, Vol. 2 - Heliport
- BSEN 55015 Class B - Emissions
- BSEN 55011 Class B - Radiation
- Suitable for ambient temperatures from -55°C to +55°C
- Protection rating to IP 56

Operating parameters

- Mains AC = 120VAC—240VAC
- DC options Available.
- Wind loading CAAA 0.2ft

Packing Spec

- Gross Wt. = 1.5KGs
- Net Wt. = 0.75 KGs
- Carton = 200mm x 230mm x 370mm



AWL/OL1V Series with fitted terminal box - ICAO Low Intensity Group B LED Obstacle Lamp

Key features

- Highly reliable LED based, very long life, low power consumption
- Low intensity obstacle lamp
- Meets the current ICAO requirements for low intensity Group A & B
- Effective Candela Output = 32.5cd
- Power Consumption Nominal 10 Watts
- Life Expectancy - 10 years
- Light Output Colour - Red
- Corrosion resistant Velox resin body
- Lens — Acrylic
- Fixing: Pre assembled to junction box for ease of installation.
- Dimensions:- 130mm Dia x 350mm high

Available part No.

- 6/AWL/OL1/3A 12VDC—24VDC
- 6/AWL/OL1/4A 48VDC
- 6/AWL/OL1/2A 115VAC-240VAC

Can be supplied with fitted Isolator switch.

Complies with

- BS 3224 Part 6 Obstacle Light Fittings
- ICAO Annex 14, Vol. 1 - Aerodromes
- ICAO Annex 14, Vol. 2 - Heliport
- BSEN 55015 Class B - Emissions
- BSEN 55011 Class B - Radiation
- Suitable for ambient temperatures from -55°C to +55°C
- Protection rating to IP 56

Operating parameters

- Mains AC = 120VAC—240VAC
- DC options Available.

Packing Spec

- Net Wt. = 2.00KGs



6/AWL/L85SA/200/AC - Low Intensity Group B LED Obstacle Lamp (CAA CAP 168 compliant)

Key features

- High reliability, five year warranty, 80,000 Hour life
- Low cost of ownership and very low power consumption
- 110—240 VAC (±10%) 50/50Hz operating supply
- Effective Intensity 200 cd red steady burning
- Uses leading LED light sources and optical technology
- Cable Entry / Exit integral to design
- Lightweight and easy to install

Specification

- Compliant to:
- UK CAA CAP168 Low intensity Type B - Flight obstacle light

Optical characteristics

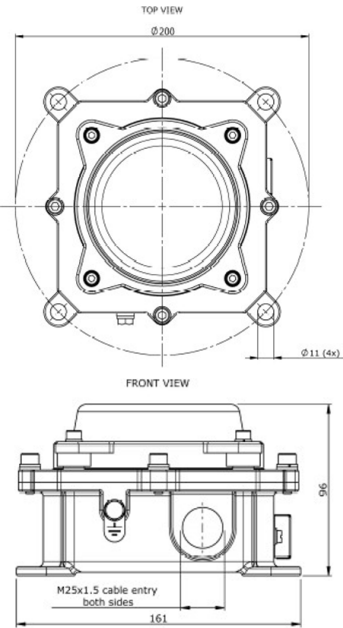
- Steady burning fixed red LED output
- Vertical beam pattern =
- 0-5 deg = 50 cd minimum
- 5-8 deg = 200 cd minimum
- 8-15 deg = 50 cd minimum

Electrical characteristics

- Low power consumption, @ 20C Only 8 Watts
- Connections 1M flying lead flexible cable
- 110—240 VAC (±10%) 50/50Hz operating supply
- Operating Temp -20 to +50 Deg C
- External M6 Earth connection point

Mechanical characteristics

- Rugged stainless steel construction
- High impact resistant dome
- IP66 Ingress Protection
- Height 111mm Width 161 x 161 mm
- Mounting 4 X M10 at 200 mm PCD
- Weight 4 Kg



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6/AWL/AVC410 - Solar Light with integral panels

The Solar Light is ICAO & CAA CAP 168 Compliant for use as Low intensity Group A

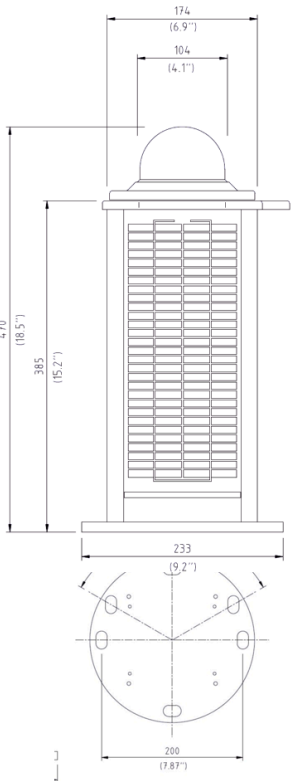
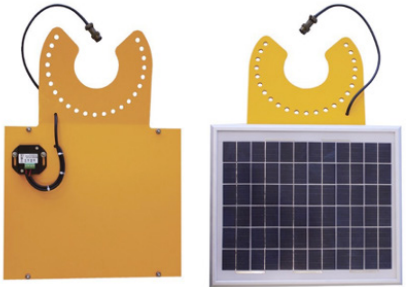
Key features

- ICAO—Low intensity Group A compliant
- Main frame made from cast aluminium, subject to 7-stage powder-coating,
- Four premium-grade solar modules are integrated into the assembly & collect sunlight at all angles.
- 24Ah battery charges from solar during daylight hours, at dusk the light operates automatically.
- Tough polycarbonate lens - patented internal 360° Omni-directional LED Reflector ensures consistency of light output and intensity.
- Inbuilt Dawn / Dusk sensor to activate light at night.

Mechanical characteristics

- Die cast Alloy body
- UV stabilised polycarbonate dome
- IP68 Ingress Protection (design)
- Base Diameter 233mm x 470 mm High
- Mounting holes 4 on 200mm PCD
- Weight 14 Kg
- Packed Dims 260x260x630mm 15 Kg

Available with booster panel to suit UK weather



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6/AWL/L550/S - Medium Intensity Group C LED

Key features

- High reliability, five year warranty, low cost of ownership and very low power consumption
- 120 — 240 VAC 50/60 Hz supply
- Effective Intensity 2,000 cd red
- Uses industry leading LED light sources with high accuracy optical design
- Lightweight and easy to install
- Steady burn mode
- Inbuilt level indicators to assist when mounting

Specification

- Compliant to:
- ICAO Annex 14 Volume 1, 5th Edition, July 2013, Ch. 6, Medium Intensity, Type C obstacle light
 -

Optical characteristics

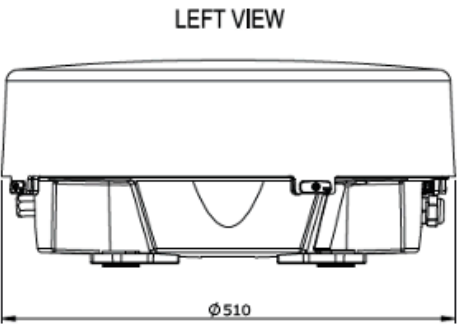
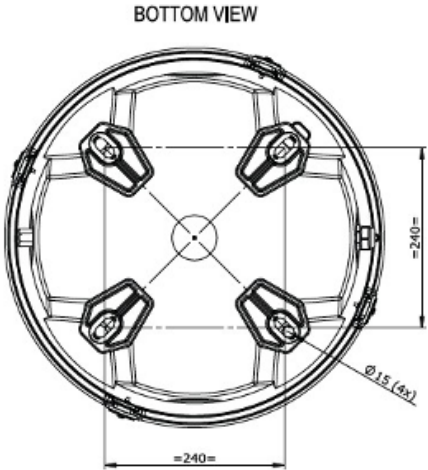
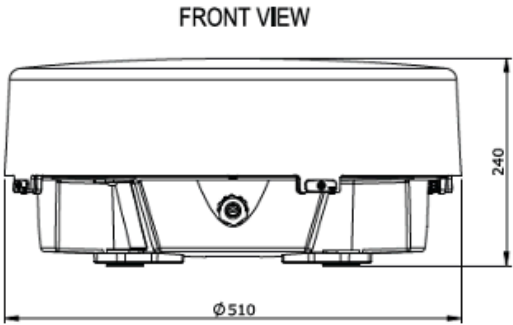
- Horizontal beam pattern = 360°
- Vertical beam pattern = 3° minimum
- Highly defined vertical beam — Accurate optics to minimise stray light
- Automatic control between day and night mode settings — no external photocell required in stand alone mode.

Electrical characteristics

- Low power consumption in Watts Day mode 6
- Night steady burning 29
- Built in Class III over voltage protection
- According to IEC61643-1
- 120 — 240 VAC 50/60 Hz supply
- Operating Temp -40 to +50 °C
- Integral power lead

Mechanical characteristics

- IP65 Ingress Protection (design)
- L x W x H 510 x 510 x 240 mm
- Mounting holes at 240 x 240 mm
- Weight 12 Kg
- Packed Dims 600x600x500mm 16 Kg
-





Junction Box Assemblies

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6/JBA2/20X/PEC/Y - Series of photocell isolator boxes

This series of Photocell Isolator junction boxes are just part of the range of control products manufactured to meet the various requirements for complete lighting systems. Every box is manufactured to our high standards Complimented by their own range of fixing bracketry all boxes are installation & maintenance friendly.

Construction

- Polycarbonate CT enclosure, hinged lids with stainless steel screws.
- Inner sub chassis with DIN rail mounted components.

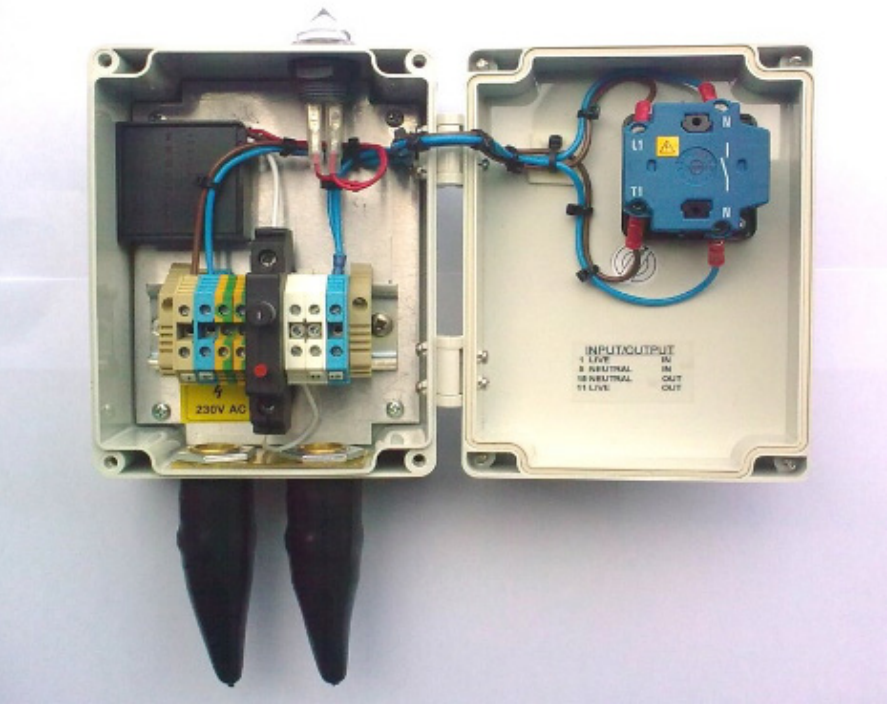
Installation

- Optional Mounting Brackets available for wall mounting, ladder stringer pole or leg fixing.

Technical Data

- Self Extinguishing Polycarbonate Enclosure
- MCB load protection
- IP 65 rated
- Ambient Temperatures -20° to +50°C
- Hinged lid
- Optional current ratings contact us
- Isolating Switch complies with BSEN 60947
- DIN rail mounted components
- Photocell 70 lux
- Part numbers
- 220-240 VAC +/- 6%
- 6/JBA2/207/PEC/01 - 1 AMP
- 6/JBA2/207/PEC/03 - 3 AMP
- 110-120 VAC +/- 6%

- 6/JBA2/206/PEC/01 - 1 AMP
- 6/JBA2/206/PEC/03 - 3 AMP
- 48 VDC +/- 2.5%
- 6/JBA2/203/PEC/01 - 1 AMP
- 6/JBA2/203/PEC/03 - 3 AMP
- 24 VDC +/- 2.5%
- 6/JBA2/202/PEC/01 - 1 AMP
- 6/JBA2/202/PEC/03 - 3 AMP
- 12 VDC +/- 2.5%
- 6/JBA2/202/PEC/01 - 1 AMP
- 6/JBA2/202/PEC/03 - 3 AMP
- X = voltage code Y is current code





Obstacle Lighting Brackets

300 Series Lamp Bracket

A custom lamp mounting bracket designed to mount the :- 6/AWL/L85SA/200/AC Lamp c/w Isolator switch box. Lamps may mounted to a large selection of tower legs or tubes, in a variety of orientations. Fully compensates for tower Leg rake in both planes; being angled to come off the heel of the Leg. Angular adjustment to level light beam to the horizon.

Technical Data

- Steel plate 8 & 10mm
- Galvanised to BS ENISO 1461:1999
- Slots for use with 12mm fixings
- Bracket Assembly weight: 11kg

6/OLB/312 Includes

- Top Plate Assembly with integral isolator mount
- Stub Flange Assembly
- Tower Interface Assembly

Fits

- Tube Size - 25 to 168.3mm
- Angle Size - 45 x 45 to 160 x 160mm
- Channel/Box - 45 x 45 to 160 x ..mm customer bolts available



900 Series Lamp Bracket

A versatile lamp mounting bracket designed to suit the Solar Lamp:- 6/AWL/AVC410 Lamps to be mounted to a large selection of tower legs or tubes, in a variety of orientations. Fully compensates for tower Leg rake in both planes; being angled to come off the heel of the Leg. Angular adjustment to level light beam to horizon.

Technical Data

- Steel plate 8 & 10mm
- Galvanised to BS ENISO 1461: 2009
- Slots for use with 12mm fixings
- 6/OLB/912

6/OLB/312 Includes

- Top Plate Assembly
- Stub Flange Assembly
- Tower Interface Assembly
- Approx Weight 12kg

Fits

- Tube Size - 25 to 168.3mm
- Angle Size - 45 x 45 to 160 x 160mm
- Channel/Box - 45 x 45 to 160 x ..mm customer bolts available





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