

The
Ledstore.co

The Complete Range of Steel & Aluminium Columns

Lighting Columns and Brackets





WHO WE ARE

European based The LED Store[®] manufacture and distribute a range of LED lighting and luminaires for the global market, with special focus on commercial, industrial & exterior applications from battens, vapour proofs & emergency lighting, to highbay, street/sports lights & lighting columns.

We have teams based in the UK & Europe, as well as Middle East & Asia, comprised of technical, design, sales, marketing and after-sales staff work to provide our partners and customers industry leading design, support and distributor packages.

WHAT WE DO

We offer a large range of stock products for next day distribution from the UK & Europe, as well as providing an OEM service design and manufacture to suit the precise needs of your projects and applications. Nike, Hilton Hotels, Formula 1, Manchester City Football Club and Panasonic are just some of the trusted global brands that use our lighting products.

ROOT MOUNTING

3-12M STEPPED TUBULAR GALVANISED STEEL

Designed to EN40. Hot dip galvanised to BS EN ISO 1461:2009. Manufactured in steel tube to EN10210

Foundation

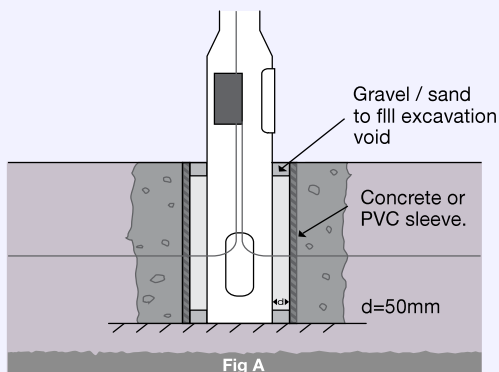


Fig A

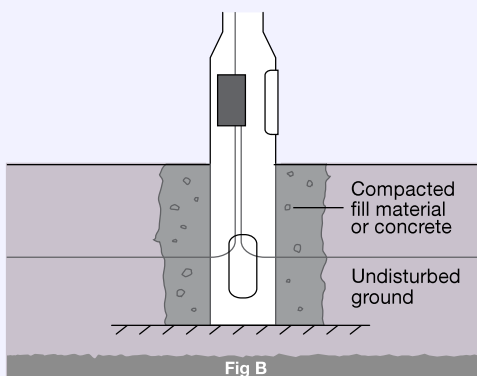
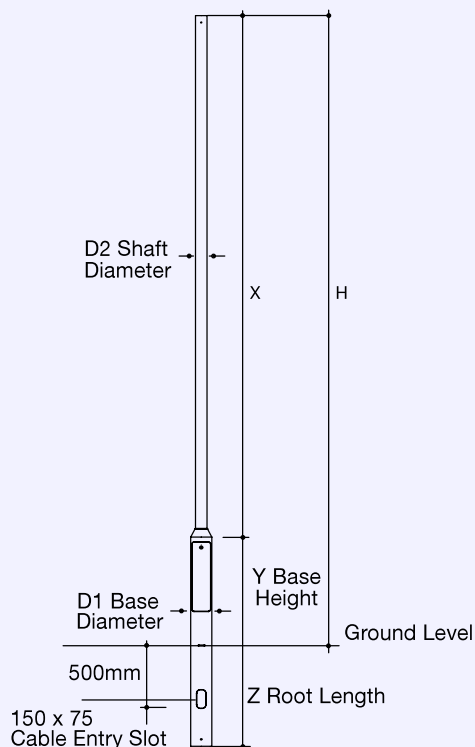


Fig B

Column Dimensions



The LED Store columns are supplied for root mounting with a root length Z applicable to the height of the particular column.

For most applications, particularly on medium size columns having large overturning moments, it is recommended that the root is inserted into a prepared foundation (Fig A).

For smaller columns where the ground conditions are suitable, a prepared foundation is not always necessary (Fig B). All that is required is a suitably sized excavated hole in undisturbed ground, which is filled with concrete after erection of the column.

Accessories

LSTCOLFUSECUT-SI Single fuse cut-out, 6A, loop in/out (not fitted)
LSTCOLFUSECUT-TW Twin fuse cut-out, 6A, loop in/out (not fitted)
LSTCOLM8KEY M8 triangular door key

Column Design

- Supplied with wooden baseboard for mounting cable connection accessories
- Bitumen root protection as standard
- Separate Earth pin in door

Dimensions (mm)

Product Code	Height	D1	D2	X	Y	Z	Door Opening	Weight (kg)	Min. Concrete Diameter*
LSTCOL3M76MM	3m	140	76	2165	835	800	500x100	30	950
LSTCOL4M76MM	4m	140	76	3165	835	800	500x100	35	950
LSTCOL5M76MM	5m	140	76	4165	835	800	500x100	41	525
LSTCOL6M76MM	6m	140	76	6630	1250	1000	500x100	47	269
LSTCOL8M89MM	8m	168	89	6630	1250	1200	600x115	80	262
LSTCOL10M114MM	10m	168	114	9840	1750	1500	600x115	120	239
LSTCOL12M140MM	12m	192	140	9840	1750	1700	600x115	190	262

*Root concrete diameter based on poor soil or better, min. 230kN/m² per m

NOTE - The above is only a typical detail & is subject to ground conditions & head weight / windage load - we advise this is checked prior to installation

FLANGE PLATE MOUNTING

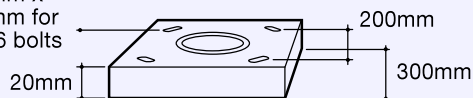
3-12M STEPPED TUBULAR GALVANISED STEEL

Designed to EN40. Hot dip galvanised to BS EN ISO 1461:2009. Manufactured in steel tube to EN10210

Flange Plate

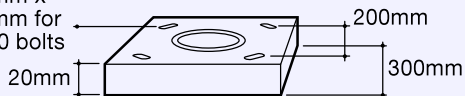
Type 1

4No. slots
20mm x
50mm for
M16 bolts



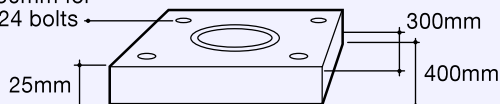
Type 2

4No. slots
25mm x
50mm for
M20 bolts

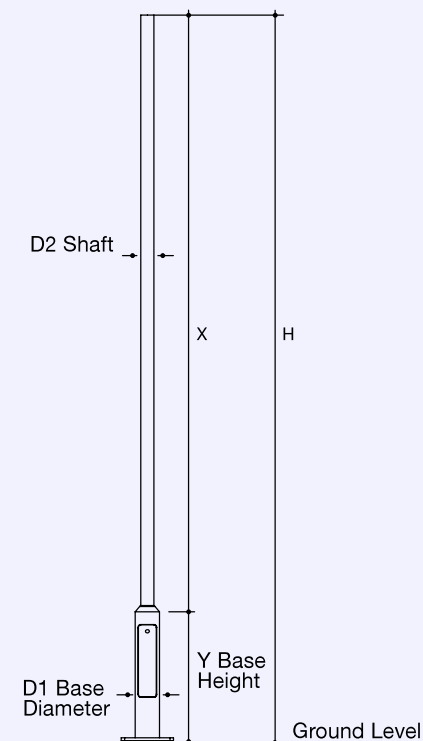


Type 3

4No. slots
Ø30mm for
M24 bolts



Column Dimensions



Accessories

LSTCOLFUSECUT-SI Single fuse cut-out, 6A, loop in/out (not fitted)
LSTCOLFUSECUT-TW Twin fuse cut-out, 6A, loop in/out (not fitted)
LSTCOLM8KEY M8 triangular door key
LSTCOLFBSM16/20/24 M16/M20/M24 J-bolt set
LSTCOLPLTM16/20/24 Foundation Template M16/M20/M24

Column Design

- Supplied with wooden baseboard for mounting cable connection accessories
- Separate Earth pin in door

Dimensions (mm)

Product Code	Height	D1	D2	X	Y	Door Opening	Flange Plate	Weight (kg)	Concrete Dimension*
LSTCOL3M76MMFP	3m	140	76	2165	835	500x100	Type 1	32	700 x 800
LSTCOL4M76MMFP	4m	140	76	3165	835	500x100	Type 1	37	700 x 800
LSTCOL5M76MMFP	5m	140	76	4165	835	500x100	Type 1	43	750 x 800
LSTCOL6M76MMFP	6m	140	76	5165	835	500x100	Type 1	47	750 x 800
LSTCOL8M76MMFP	8m	168	89	6630	1250	600x115	Type 2	59	850 x 950
LSTCOL10M140MMFP	10m	168	114	8600	1250	600x115	Type 3	121	950 x 1100
LSTCOL12M140MMFP	12m	194	140	9840	1750	600x115	Type 3	188	1200 x 1250

*Concrete dimension based on a minimum ground bearing pressure of 150kN/m², (S = square dimension, H = depth)

NOTE - The above is only a typical detail & is subject to ground conditions & head weight / windage load - we advise this is checked prior to installation

CONICAL

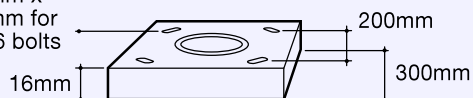
4-6M CONICAL ALUMINIUM

Designed to EN40. Machine brushed finish as standard, or with optional anodised treatment

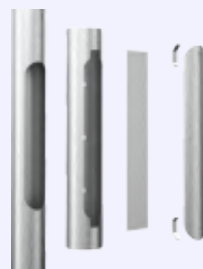
Flange Plate

Type 4

4No. slots
20mm x
50mm for
M16 bolts

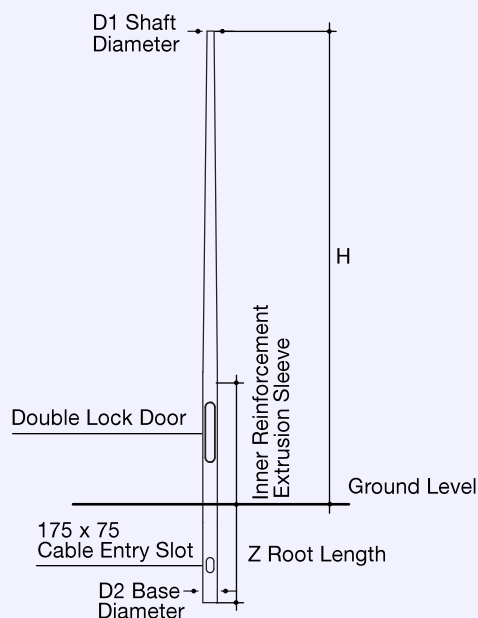


Column Design



- Machine brushed finish as standard
- Inner reinforcement extrusion sleeve c/w mounting rail
- Supplied with wooden baseboard for mounting cable connection accessories
- Double lock door

Column Dimensions



Accessories

LSTCOLFUSECUT-SI Single fuse cut-out, 6A, loop in/out (not fitted) **LSTCOLFUSECUT-TW** Twin fuse cut-out, 6A, loop in/out (not fitted)

Root Mounted

Dimensions (mm)							
Product Code	Height	D1	D2	Z	Door Opening	Weight (kg)	Min. Concrete Diameter*
LSTACOL4M76MM	4m	76	140	800	600x100	27.0	0.30
LSTACOL5M76MM	5m	76	140	800	600x100	30.0	0.35
LSTACOL6M76MM	6m	76	152	800	600x100	35.0	0.30

*Root mounted columns come with bitumen protection on the root, to 200mm above ground level

NOTE - The above is only a typical detail & is subject to ground conditions & head weight / windage load - we advise this is checked prior to installation

Flange Plate Mounted

Dimensions (mm)							
Product Code	Height	D1	D2	Door Opening	Flange Plate	Weight (kg)	Concrete Dimension*
LSTACOL4M76MMF	4m	76	140	600x100	Type 4	29.0	650 x 750
LSTACOL5M76MMF	5m	76	140	600x100	Type 4	32.0	650 x 750
LSTACOL6M76MMF	6m	76	152	600x100	Type 4	38.0	650 x 750

*Concrete dimension based on a minimum ground bearing pressure of 150kN/m², (S = square dimension, H = depth)

NOTE - The above is only a typical detail & is subject to ground conditions & head weight / windage load - we advise this is checked prior to installation

SOLAR INTEGRATED COLUMN

4-6M STRAIGHT ALUMINIUM

Designed to EN40. Verticle PV Module. LiFePO4 Battery



Column Design



Luminaire

Wide range of luminaires are optional, tailor made solution also can be provided via ETO process.



LiFePO4 battery

Over 8 years design life time lowers total system cost. Special designed battery pack ensures protection of over temperature & short circuit.



Vertical PV panel

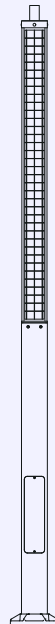
Integrated vertical PV panel into pole provides aesthetic view, avoids snow or sand collection on solar panel, and no tilt angle adjustment needed on site.



Durable construction

Recyclable, good ability of endure corrosion. Excellent quality of surface treatment provides nice view of the product. Low weight makes installation quick and easy.

Column Dimensions



Available in 2 shape options:

Square Circular



Images for illustration purpose only, solar intergrated column system applicable with extensive range of Sedna luminaires

		1m PV Module + BLADE II	2m PV Module + INFINITY II
Column	Shape of column	Circular	Square
	Solar PV module	1m	2m
	Size of column	Ø180mm	170x170mm
	Aluminium surface finish	Powder painting	Powder painting
	Light poles certificates	EN 40-6	EN 40-6
	CE certificate	Yes	Yes
Luminaire	Luminaire	BLADE II	INFINITY II
	Maximum luminous flux	3000lm	9000lm
	Efficacy @ full power	150lm/w	150lm/w
	CCT CRI	CCT= 4000K CRI > 70	CCT= 4000K CRI > 70
	Standard light profile	4H 100% + 4H 40% + 4H 20%	4H 100% + 4H 40% + 4H 20%
	Tye. service life of LEDs	> 50,000 hours	> 50,000 hours
LifePO4 battery	Battery technology	LiFePO4	LiFePO4
	Battery capacity	15Ah	50Ah
	Life cycles	> 2000 cycles @90% DOD	> 2000 cycles @90% DOD
	IP rating	IP66	IP66
	Operating temperature	0 to 60°C	0 to 60°C
PV module	PV cell technology	Mono -Si	Mono -Si
	Watt peak rating per module	180 Wp/23Voc	180 Wp/23Voc
	Solar cell efficiency (under STC)	16.40%	16.40%
	PV module lifespan	> 25 years	> 25 years
	Dimension	Ø180 x 1000mm	170 x 170 x 2000mm

The LED Store solar intergrated column provides wide range of luminaires on top of the pole.
Above specifications are 2 of recommended options.









LANTERN BRACKET

SINGLE, TWIN

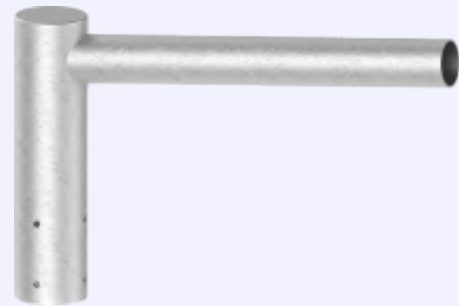
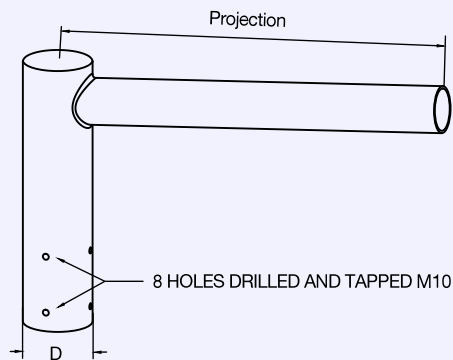
Hot dip galvanised to BS EN ISO 1461:2009

Technical Data

Dimensions (mm)							
Product code	Type	To Suit Column	To Fit Projection	To Fit Shaft or Spigot Ø	D	Z	Approx Weight (kg)
LSTCOLSPB500	Single	76 mm	500	60	89	350	5.4
LSTCOLTPB500	Twin	76 mm	500	60	89	350	6.9

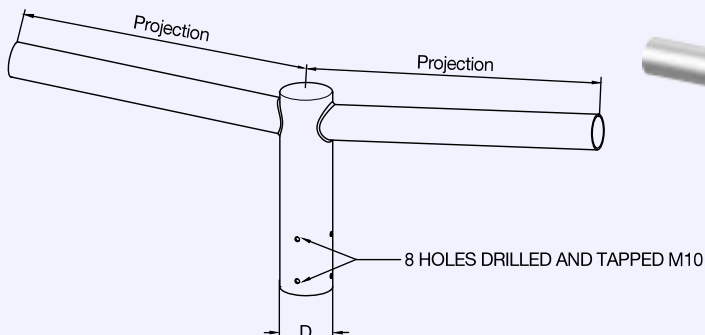
Single

Grub screws included



Twin

Grub screws included



FLOODLIGHTING BRACKETS

SINGLE, TWIN, TRIPLE

Hot dip galvanised to BS EN ISO 1461:2009

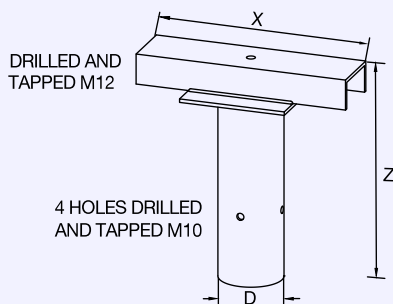
Technical Data

Dimensions (mm)

Product code	Type	To Suit Column	X	D	Z	A	Approx Weight (kg)
LSTCOLSFLB	Single	76	300	89	313	-	5.1
LSTCOLTFLB	Twin	76	700	89	313	600	7.8
LSTCOL3WFLB	Triple	76	1300	89	313	600	11.5

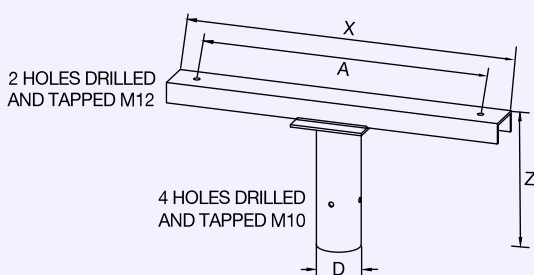
Single

Grub screws & fixing bolts included



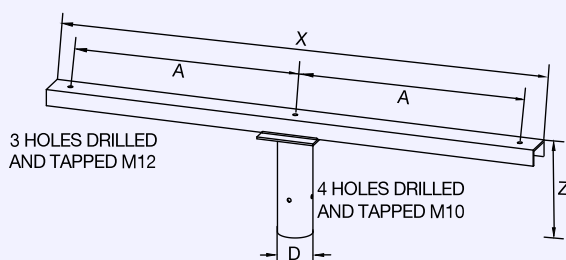
Twin

Grub screws & fixing bolts included



Triple

Grub screws & fixing bolts included



CCTV BRACKETS

SINGLE, TWIN

Hot dip galvanised to BS EN ISO 1461:2009

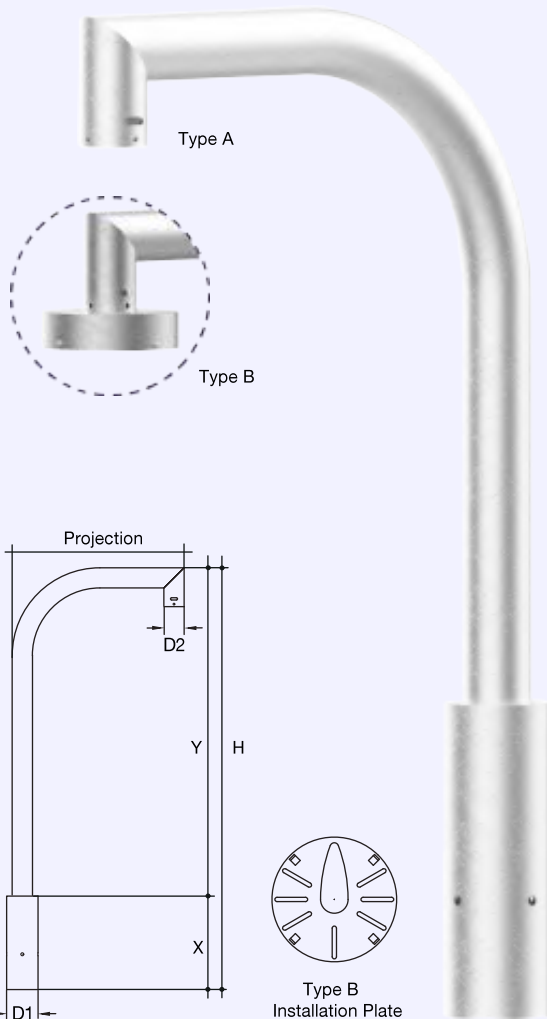
Technical Data

Dimensions (mm)

Product code	Type	To Suit Column	To Fit Projection	X	Y	D1	D2	Approx Weight (kg)
LSTCOLSUCB	Single	76	430	265	595	89	57	6.9 (Type A) / 7.7 (Type B)
LSTCOLTUCB	Twin	76	430	265	595	89	57	9.5 (Type A) / 11.2 (Type B)

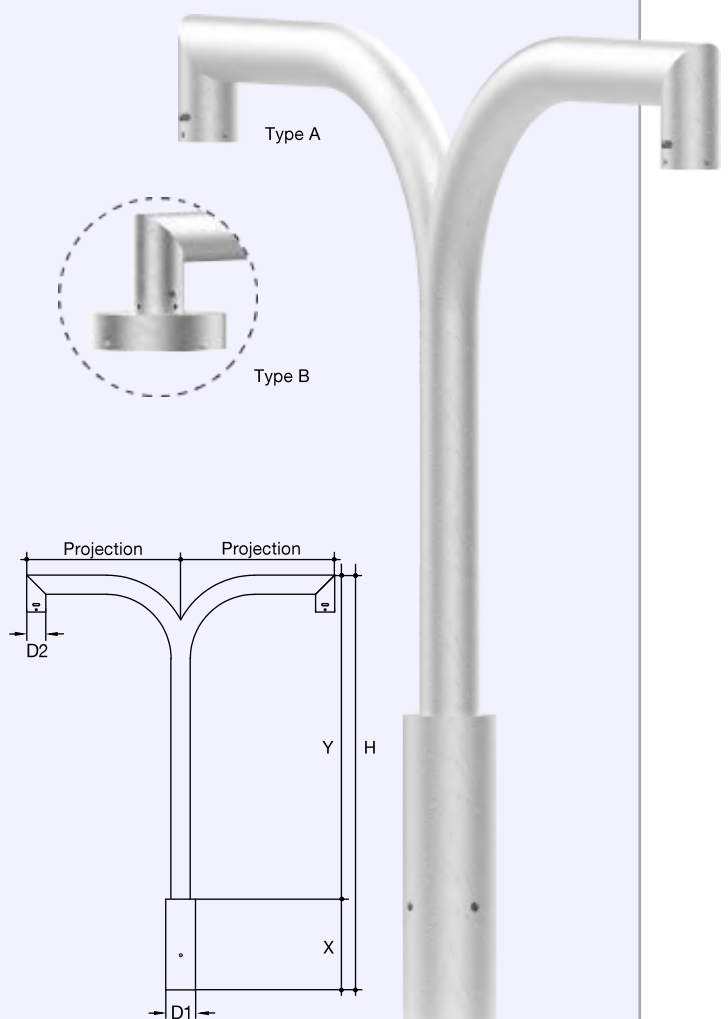
Single Projection

Grub screws included



Double Projection

Grub screws included



BESPOKE BRACKETS

BULK CUSTOMISATION

Hot dip galvanised



With our own in-house manufacturing facility which is capable of producing brackets to suit all range street lighting applications. We can also bespoke to meet customer specific requirements.

Below is partial range of brackets we are able to manufacture and supply.

Column Spigot Adaptors



76mm/89mm/101mm/114mm/140mm

3-Way / 4-Way / Multi-Way



Anti Climb Bracket



Streetlighting Shield



EN40 WIND ZONE MAP

Wind loading categories

	N/m ²
Extra Heavy	576
Heavy	466
Medium	429
Light	396
Specialist	Contact Sedna

The rationalised wind loading factor, R_{wf} , are all stated at 10m above ground level, and for a mean return period of 25 years.

The LED Store standard columns are based on:

Terrain Category II - 8m and above.

Terrain Category III - less than 8m.

Note: coastal sites, sites above 250m or sites subject to funnelling will require special consideration.



Tyne and Wear includes:

Gateshead, Newcastle, North and South Tyneside and Sunderland.

West Yorkshire includes:

Calderdale, Bradford, Kirklees and Wakefield.

South Yorkshire includes:

Barnsley, Doncaster, Rotherham and Sheffield.

Greater Manchester includes:

Bolton, Bury, Manchester, Oldham, Rochdale, Salford, Stockport, Tameside, Trafford and Wigan.

West Midlands includes:

Birmingham, Coventry, Dudley, Sandwell, Solihull, Walsall and Wolverhampton.

Greater London includes:

All London boroughs.

Terrain Category I:

Seasides. At the edge of a lake with a length exposed to the wind of at least 5km. Flat even land without obstacles.

Terrain Category II:

Fenced off cultivated land, some small agricultural buildings, houses or trees.

Terrain Category III:

Industrial or sub-urban zones and forest.

Terrain Category IV:

Urban perimeters with at least 15% of the surface built on, and/or on which the average heights of buildings exceed 15m.

Table A.1 - Rationalised wind loading factor, Rwf and maximum altitude.

Administrative Area	Maximum Altitude m	10 Min Mean Wind Velocity m/sec	Rationalised Wind Loading Region	Administrative Area	Maximum Altitude m	10 Min Mean Wind Velocity m/sec	Rationalised Wind Loading Region
Aberdeen	141	25.2	Heavy	Medway	174	22.58	Light
Aberdeenshire	117	25.73	Heavy	Merseyside	142	24.15	Medium
Angus	250	25.2	Extra Heavy	Merthyr Tydfil	250	22.58	Heavy
Antrim	217	26.25	Extra Heavy	Mid Lothian	141	25.2	Heavy
Argyll and Bute	170	27.3	Extra Heavy	Middlesbrough	95	26.25	Heavy
Armagh	250	24.68	Extra Heavy	Milton Keynes	202	22.05	Light
Bath and North East Somerset	250	22.05	Medium	Monmouthshire and Newport	202	22.05	Light
Bedfordshire	147	23.1	Light	Moray	250	25.2	Extra Heavy
Blackburn and Darwen	142	24.15	Medium	Neath Port Talbot	193	23.1	Medium
Blackpool	98	24.15	Light	Norfolk	95	26.25	Heavy
Blaenau Gwent	250	22.05	Medium	North Ayrshire	217	26.25	Extra Heavy
Bournemouth	98	24.15	Light	North East Lincs	52	25.2	Light
Bracknell Forest	250	21	Light	North Lanarkshire	190	24.15	Heavy
Bridgend	221	22.58	Medium	North Lincs	94	25.2	Medium
Brighton and Hove	147	23.1	Light	North West Somerset	202	22.05	Light
Bristol	231	21.53	Light	North Yorkshire	95	26.25	Heavy
Buckinghamshire	202	22.05	Light	Northamptonshire	147	23.1	Light
Caerphilly	250	22.05	Medium	Northumberland	50	26.25	Medium
Cardarff	250	25.2	Extra Heavy	Nottingham	147	23.1	Light
Cardiff	250	22.05	Medium	Nottinghamshire	142	24.15	Medium
Ceredigion	142	24.15	Medium	Orkney	87	29.4	Extra Heavy
Channel Islands	141	25.2	Heavy	Oxfordshire	250	21	Light
Cheshire	193	23.1	Medium	Pembrokeshire	142	24.15	Medium
Clackmannanshire	190	24.15	Heavy	Perth and Kinross	165	24.68	Heavy
Conwy	250	24.15	Extra Heavy	Peterborough	98	24.15	Light
Cornwall	141	25.2	Heavy	Plymouth	142	24.15	Medium
Cumbria	242	25.73	Extra Heavy	Poole	147	23.1	Light
Darlington	72	25.73	Medium	Portsmouth	147	23.1	Light
Denbighshire	244	23.1	Heavy	Powys	193	23.1	Medium
Derby	174	22.58	Light	Reading	250	21	Light
Derbyshire	193	23.1	Medium	Redcar and Cleveland	95	26.25	Heavy
Devon	142	24.15	Medium	Renfrewshire	250	25.2	Extra Heavy
Dorset	193	23.1	Medium	Rhondda Cynon Taff	250	22.58	Heavy
Down	250	25.2	Extra Heavy	Rutland	122	23.63	Light
Dumfries and Galloway	117	25.73	Heavy	Scottish Borders	117	25.73	Heavy
Dundee	242	25.73	Extra Heavy	Shropshire	250	22.58	Heavy
Durham	217	26.25	Extra Heavy	Slough	250	21	Light
East Ayrshire	117	25.73	Heavy	Somerset	193	23.1	Medium
East Dunbartonshire	165	24.68	Heavy	South Ayrshire	117	25.73	Heavy
East Lothian	141	25.2	Heavy	South Gloucester	231	21.53	Light
East Renfrewshire	250	25.2	Extra Heavy	South Lanarkshire	165	24.68	Heavy
East Riding of Yorkshire	217	26.25	Extra Heavy	South Yorkshire	142	24.15	Medium
East Sussex	147	23.1	Light	Southampton	174	22.58	Light
Edinburgh	165	24.68	Heavy	Southend	147	23.1	Light
Essex	167	23.63	Medium	Staffordshire	221	22.58	Medium
Falkirk	190	24.15	Heavy	Stirling	250	25.2	Extra Heavy
Fermanagh	250	25.2	Extra Heavy	Stockton on Tees	72	25.73	Medium
Fife	141	25.2	Heavy	Stoke on Trent	221	22.58	Medium
Flintshire	193	23.1	Medium	Suffolk	94	25.2	Medium
Glasgow	165	24.68	Heavy	Surrey	250	22.58	Heavy
Gloucestershire	231	21.53	Light	Swansea	167	23.63	Medium
Greater London	174	22.58	Light	Swindon	250	21	Light
Greater Manchester	167	23.63	Medium	Telford and Wrekin	202	22.05	Light
Gwynedd	250	25.2	Extra Heavy	Thurrock	174	22.58	Light
Halton	147	23.1	Light	Torbay	122	23.63	Light
Hampshire	147	23.1	Light	Torfaen	250	22.05	Medium
Hartlepool	95	26.25	Heavy	Tyne and Wear	217	26.25	Extra Heavy
Herefordshire	202	22.05	Light	Tyrene	250	25.2	Extra Heavy
Hertfordshire	147	23.1	Light	Vale of Glamorgan	221	22.58	Medium
Highland	127	28.35	Extra Heavy	Warrington	147	23.1	Light
Inverclyde	242	25.73	Extra Heavy	Warwickshire and Coventry	250	22.05	Medium
Isle of Anglesey	94	25.2	Medium	West Berkshire and Newbury	250	21	Light
Isle of Man	94	25.2	Medium	West Dunbartonshire	141	25.2	Heavy
Isle of Wight	147	23.1	Light	West Lothian	190	24.15	Heavy
Isles of Scilly	52	25.2	Light	West Midlands	231	21.53	Light
Kent	167	23.63	Medium	West Sussex	147	23.1	Light
Kingston upon Hull	52	25.2	Light	West Yorkshire	250	24.68	Extra Heavy
Lancashire	141	25.2	Heavy	Western Isles	87	29.4	Extra Heavy
Leeds City	250	24.68	Extra Heavy	Wiltshire	202	22.05	Light
Leicester	174	22.58	Light	Windsor and Maidenhead	250	21	Light
Leicestershire	193	23.1	Medium	Wokingham	250	21	Light
Lincolnshire	94	25.2	Medium	Worcestershire	231	21.53	Light
Londonderry	217	26.25	Extra Heavy	Wrexham	221	22.58	Medium
Luton	202	22.05	Light	York	52	25.2	Light
				Shetland	Special case - seek special assistance	31.50	Special case - seek special assistance

THE BRIGHT LIGHTING SOLUTION

With a wide range of products to suit commercial, industrial & external applications, dedicated support including 60 minute quotations, 24-hour lighting designs* & 5pm cut off for next day delivery, we strive to be a market leader in supporting a range of projects in the following:

- Office, School & Hospital Sectors
- Industrial, Warehouse & Manufacturing
- Architectural lighting
- Car park and amenity lighting
- Sports lighting including Tennis, Football & Rugby
- High mast lighting

**Find out more. Call us today on 03333 444 943
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LED Lighting and Luminaires

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Our innovative portfolio of British designed products suit industrial, commercial, signage and accent applications, with a large selection available from stock for next day distribution from the UK or Europe. Our full range is listed online, as well as information on some of the brand's we've worked with in the past. For more information – simply get in touch with Sedna in the UK/Europe.

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HEA
Highway Electrical Association

