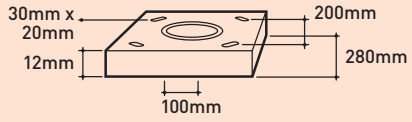
LIGHT DUTY

4-8M BASE HINGED COLUMN Patent No: 968113

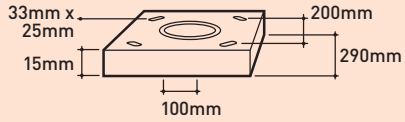
Designed to EN40. Hot dip galvanised to BS EN1461:1999. Manufactured in steel tube to EN10210

Flange Plate

Type 0 FA000G Bolts/cross brace M16 x 500mm
FC020 Template



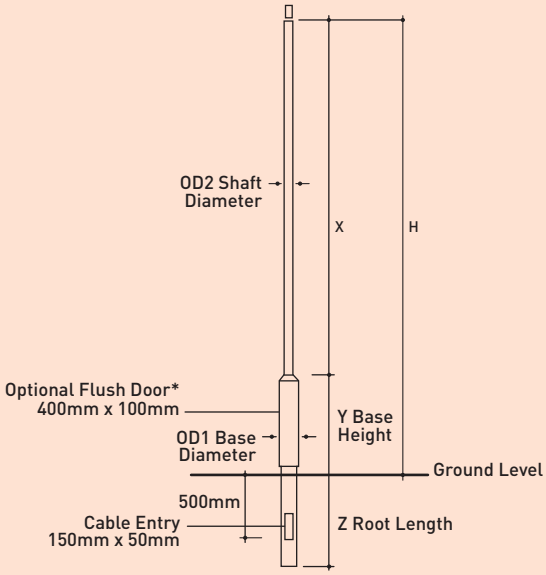
Type 1 FA001G Bolts/cross brace M20 x 500mm
FC021 Template



Accessories

XXSC003F	Tamper resistant locking screw
XXSC003F	Key for locking screw
ELSAB1/6A	Single fuse cut-out, 6A, loop in/out (not fitted)
ELSAB12/6A	Twin fuse cut-out, 6A, loop in/out (not fitted)

Column Dimensions



***Flush Door Option**
Flush door enables internal locking mechanism. Side fitted locking screw not required on this model. Add /FD suffix.

Root Mounted

Product Code	Height	OD1	OD2	x	y	z	Weight (kg)	OTM (KNm)	Shear (KN)	Min. Concrete Diameter*	Counterbalance Type & Max. Weight
T041RLS	4m	168	76	2875	1050	600	50	4.9	1.4	1397	**RLS168 - Yellow** 10kg **RLS168 - White** 20kg **RLS168 - Red** 29kg **RLH168 -** 29kg
T051RLS	5m	168	76	3875	1050	800	59	4.8	1.3	570	**RLS168 - Yellow** 10kg **RLS168 - White** 18kg **RLS168 - Red** 27kg **RLH168 -** 27kg
T061RLS	6m	168	76	4860	1050	1000	68	4.7	1.2	291	**RLS168 - White** 10kg **RLS168 - Red** 18kg **RLS168 - Blue** 28kg **RLH168 -** 28kg
T081RLS	8m	168	89	6830	1050	1200	89	5.7	1.3	198	**RLS168 - Blue** 11kg **RLS168 - Green** 17kg **RLH168 -** 17kg

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

Flange Plate Mounted

Dimensions (mm) Product Code	Height	OD1	OD2	x	y	Flange Plate	Weight (kg)	OTM (KNm)	Shear (KN)	Concrete Dimension*	Counterbalance Type & Max. Weight
T041RLS /FP	4m	168	76	2875	1050	Type 0	49	4.9	1.4	750 x 800	**RLS168 - Yellow** 10kg **RLS168 - White** 20kg **RLS168 - Red** 29kg **RLH168 -** 29kg
T051RLS /FP	5m	168	76	3875	1050	Type 0	54	4.8	1.3	750 x 800	**RLS168 - Yellow** 10kg **RLS168 - White** 18kg **RLS168 - Red** 27kg **RLH168 -** 27kg
T061RLS /FP	6m	168	76	4860	1050	Type 0	59	4.7	1.2	750 x 800	**RLS168 - White** 10kg **RLS168 - Red** 18kg **RLS168 - Blue** 28kg **RLH168 -** 28kg
T081RLS /FP	8m	168	89	6830	1050	Type 1	77	5.7	1.3	750 x 900	**RLS168 - Blue** 11kg **RLS168 - Green** 17kg **RLH168 -** 17kg

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

Outreach & Floodlight Brackets

Height	Projection Length	Outreach Brackets: Overlap Fit on Shaft	Outreach Brackets: Flush Fit on Spigot	Spigot Lengths: Type/Bolt Centres (mm)	Floodlight Brackets: Overlap Fit on Shaft	Floodlight Brackets: Flush Fit on Spigot
		Single (S)	Double (D)	/SP 230mm /SP1 100mm		
4m		**T041RLS**	**T041RLS/SP+/SP1***		**T041RLS**	**T041RLS/SP**
	0.30m	PR2-03/S or /D	PR1-03/S or /D*	Single	FLI/1	FLO/1
	0.50m	PR2-05/S or /D	PR1-05/S or /D*	Double (600)	FLI/2	FLO/2
5m		**T051RLS**	**T051RLS/SP+/SP1***		**T051RLS**	**T051RLS/SP**
	0.30m	PR2-03/S or /D	PR1-03/S or /D*	Single	FL1/1	FLO/1
	0.50m	PR2-05/S or /D	PR1-05/S or /D*	Double (600)	FL1/2	FLO/2
6m		**T061RLS**	**T061RLS/SP+/SP1***		**T061RLS**	**T061RLS/SP**
	0.30m	PR2-03/S or /D	PR1-03/S or /D*	Single	FL1/1	FLO/1
	0.50m	PR2-05/S or /D	PR1-05/S or /D*	Double (800)	FL1/3	FLO/3
8m		**Post top lanterns only**			**T081RLS**	**T081RLS/SP**
				Single	FL2/1	FL1/1
				Double (800)	Post top floodlight only	

*Outreach brackets series PR1 & PR2 below 0.50m projection fit onto 100mm spigot (/SP1). 0.50m + on standard 230mm spigot (/SP)
For complete bracket information please refer to pages 35-37

Column Headload Capacity (m²)

Based on UK rationalised wind loading factors for EN40

Product Code	Lantern Mounting/ Projection	Max. Headload (kg)	Light 396	Medium 429	Heavy 466	Very Heavy 576
T041RLS	Post Top	53	1.152	1.054	0.961	0.756
	0.25m Single Outreach	8	0.363	0.332	0.303	0.24
	0.50m Single Outreach	8	0.258	0.236	0.215	0.168
T051RLS	Post Top	38	0.775	0.703	0.634	0.484
	0.25m Single Outreach	8	0.298	0.271	0.246	0.133
	0.50m Single Outreach	8	0.214	0.194	0.175	0.133
T061RLS	Post Top	28	0.528	0.472	0.418	0.302
	0.25m Single Outreach	8	0.237	0.213	0.19	0.141
	0.50m Single Outreach	8	0.171	0.153	0.136	0.099
T081RLS	Post Top	17	0.16	0.133	0.109	0.06
	0.25m Single Outreach	8	0.06	0.05	–	–

For complete information on column headloads refer to www.abacuslighting.com/columns.asp

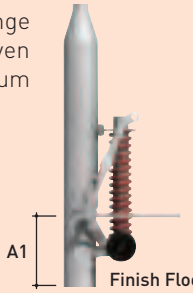
COUNTERBALANCE UNITS

TO OPERATE LIGHT DUTY BASE HINGED RANGE

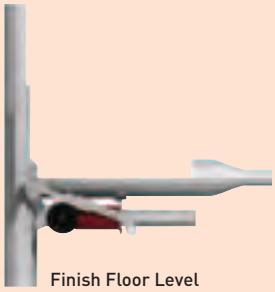
Spring Counterbalance - RLS168

The spring unit, type RLS168, is available in a range of coloured springs. Each spring type has a given capacity, based on the column height and maximum safe working load.

Column key is inserted into the end of the operating lever. Column key item no.XXSC006F



Column Position = Raised, Docked and Locked



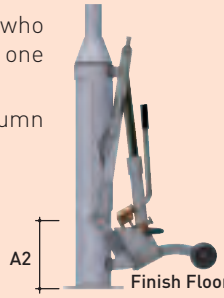
Column Position = Lowered, Un-docked and Un-locked

A1 Design height of the pivot above finished floor level is 300mm. If this distance is less than 230mm, difficulty in fitting counter balance will be experienced

Hydraulic Counterbalance - RLH168

This hydraulic unit is popular with companies who have multiple column heights and headloads on one site or over a number of sites.

The advantage is that it can operate the full column range regardless of height and headload.



Column Position = Raised, Docked and Locked

Column Position = Lowered, Un-docked and Un-locked

A2 Design height of the pivot above finished floor level is 300mm. If this distance is less than 250mm, difficulty in fitting counter balance will be experienced

Counterbalance Product Code	Column Height	Safe Working Load (kg)	Counterbalance Weights (kg)*
RLS168-yellow	4m, 5m	17, 10	22
RLS168-red	4m, 5m, 6m	27, 18, 10	23.5
RLS168-blue	6m, 8m	27, 18	25
RLS168-green	8m	17	26.5
RLH168	4m, 5m, 6m, 8m	27, 27, 28, 17	37.5**

*Weight includes operating lever only when used with the light duty base hinged column range

**Weight does not include operating lever (2.5kg for RLH168)

Column Carrier - RL900M

Features

The Abacus Column Carrier System has been designed to safely and conveniently move base hinged columns and guide them into position for installation with minimum effort.

- Designed specifically for the root mounted spring raise and lowering column up to 168Ø and a minimum 6m mounting height
- Enables a column to be safely transported to its installation location and provides a stable platform for the column to be worked on, prior to erection
- The column carrier can be used by one man for moving columns to the installation site
- The column can be lifted into place safely and easily by two men

Note: See page 16 for further images of the product