

Name of Manufacturer:

# Abacus®

**ABACUS LIGHTING LIMITED**

Sutton - in - Ashfield, Nottinghamshire.

NG17 5FT ENGLAND

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DATA SHEET No.

**T068RLH**

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Revision No

Date

**6th JUNE 2005**

NAME OF CONTRACT:

## PART A

General

Column Reference

T068RLH

Column nominal height

6 (m)

Column material

S275 & S355 STEEL

Material design strength

275 & 355 N/mm sq.

No. of door openings

ONE

Door opening size

Height

\*\*\* (mm)

Width

\*\*\* (mm)

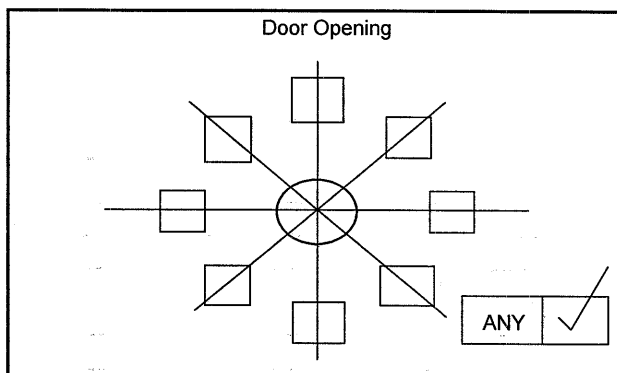
Cross-section of base

compartment

Height (mm)	Width (mm)	Depth (mm)
450	100	100

Corrosion protection

Acceptable positions of bracket arms relative to door position



Manufacturers drawing ref. no:

N/A

Basic system type

AS REQUIRED

Additional sacrificial steel thickness

N/A (mm)

Terrain Category as defined in EN40-3-1

III

Planting depth

1 (m)

## PART B

Foundation data

Planted base

Flange base

Relevant forces and moments at ground level.

Line of action of max moment relative to door opening

For flangeplates with slotted holes a diagram shall be included with this data sheet.

Standard Soil Type Factor G

630	390	230
0.214 (m)	0.346 (m)	0.586 (m)

Bolt hole centres	Hole diameter	Design load/bolt
200 (mm)	35 x 25 (mm)	33419 (N)

Moment 9452 (Nm) Shear 1888 (N)



(LOADINGS FOR COLUMN ARE UNFACTORED)

Details of Attachments	N/A
Area x Cf	(sq m) x
Height	(m)
Offset	(m)

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**PART C**  
Acceptable Lanterns

Post Top Columns

Lantern Lever Arm (mm)	
Due to Wt. of Lantern	Due to Wind on Lantern
300	300

Lantern Connection		Lantern	Rationalized Wind Loading Factors			
Diameter (mm)	Length (mm)	Max. Wt. (Kg)	396	429	466	576
AS REQUIRED			70*			
			Maximum windage area (sq.m) For Rationalized Wind Loading Factors			
			1.392	1.274	1.163	0.923

Single Arm Bracket Column

\*Max Headload - RLH168 at 6m

Lantern Lever Arm (mm)	
Due to Wt. of Lantern	Due to Wind on Lantern
400	400

Bracket Projection (m)	Bracket Reference	Material		Lantern Connection			Lantern Maximum Weight (Kg)	Maximum windage area (sq.m) For Rationalized Wind Loading Factors			
		Grade	Design Strength N/sq.mm	Fixing Angle	Diameter (mm)	Length (mm)					
0.75	BKT-075/S	S275	275	AS REQUIRED			10	0.472	0.432	0.394	0.311
1	BKT-10/S	S275	275	AS REQUIRED			10	0.391	0.357	0.325	0.255
1.25	BKT-125/S	S275	275	AS REQUIRED			10	0.329	0.3	0.272	0.211
1.5	BKT-15/S	S275	275	AS REQUIRED			10	0.28	0.254	0.23	0.176
2	BKT-20/S	S275	275	AS REQUIRED			10	0.198	0.177	0.157	0.115

Double Arm Bracket Column

Lantern Lever Arm (mm)	
Due to Wt. of Lantern	Due to Wind on Lantern
400	400

Bracket Projection (m)	Bracket Reference	Material		Lantern Connection			Lantern Maximum Weight (Kg)	Maximum windage area (sq.m) For Rationalized Wind Loading Factors			
		Grade	Design Strength N/sq.mm	Fixing Angle	Diameter (mm)	Length (mm)					
0.75	BKT-075/D	S275	275	AS REQUIRED			10	0.796	0.726	0.66	0.518
1	BKT-10/D	S275	275	AS REQUIRED			10	0.776	0.707	0.641	0.5
1.25	BKT-125/D	S275	275	AS REQUIRED			10	0.654	0.602	0.552	0.442
1.5	BKT-15/D	S275	275	AS REQUIRED			10	0.552	0.507	0.465	0.37
2	BKT-20/D	S275	275	AS REQUIRED			10	0.673	0.611	0.549	0.413

**PART D**  
CERTIFICATION

It is certified that the information given in this data sheet has been obtained in accordance with the requirements of BS EN 40 as implemented by Departmental Standard BD 26 and the specification.

Signed on behalf of the Contractor .....

Date.....6th JUNE 2005.

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