

Name of Manufacturer:

Abacus®

ABACUS LIGHTING LIMITED

Sutton - in - Ashfield, Nottinghamshire.

NG17 5FT ENGLAND

Tel: (+44) 01623 511111 Fax: (+44) 01623 552133

DATA SHEET No.

SL051RLS

Page

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Revision No

Date

30th JANUARY 2008

NAME OF CONTRACT:

PART A

General

Column Reference

Column nominal height (m)

Column material

Material design strength N/mm sq.

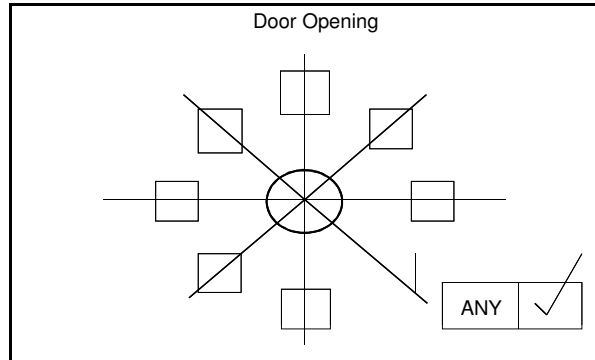
No. of door openings

Door opening size
 Height (mm)
 Width (mm)

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

Corrosion protection

Acceptable positions of bracket arms relative to door position



Manufacturers drawing ref. no:

Basic system type

Additional sacrificial steel thickness (mm)

Terrain Category as defined in EN40-3-1

Planting depth (m)

PART B

Foundation data

Relavent forces and moments at ground level.

Line of action of max moment relative to door opening

Standard Soil Type Factor G		
630	390	230
***** (m)	0.264 (m)	0.448 (m)

Bolt hole centres	Hole diameter	Design load/bolt
200 (mm)	30 x 20 (mm)	12900 (N)

Moment	3649 (Nm)	Shear	1008 (N)
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(LOADINGS FOR COLUMN ARE UNFACTORED)

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

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)	446.0	483.0	526.0	631.0
			Maximum windage area (sq.m) For Rationalized Wind Loading Factors			
AS REQUIRED		38*	0.461	0.413	0.366	0.285

Single Arm Bracket Column

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

*Max Headload - RLS0 = 10kg, RLS0X = 18kg, RLS1 = 27kg
RLS2 = 38kg

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)					
0.25	BKT-025/S	S210	210	AS REQUIRED			8	0.19	0.172	0.154	0.122
0.5	BKT-05/S	S210	210	AS REQUIRED			8	0.133	0.12	0.106	*****
0.75	BKT-075/S	S210	210	AS REQUIRED			8	*****	*****	*****	*****
1	BKT-10/S	S210	210	AS REQUIRED			8	*****	*****	*****	*****
1.25	BKT-125/S	S210	210	AS REQUIRED			8	*****	*****	*****	*****

Double Arm Bracket Column

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

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)					
0.25	BKT-025/D	S275	275	AS REQUIRED			8	0.272	0.244	0.216	0.167
0.5	BKT-05/D	S275	275	AS REQUIRED			8	0.256	0.228	0.2	0.152
0.75	BKT-075/D	S275	275	AS REQUIRED			8	0.24	0.212	0.184	0.137
1	BKT-10/D	S275	275	AS REQUIRED			8	0.223	0.196	0.169	0.122
1.25	BKT-125/D	S275	275	AS REQUIRED			8	0.207	0.18	0.153	0.107

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 *Marc Massey*

Date.....30th JANUARY 2008.

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