

Name of Manufacturer:

Abacus®

ABACUS LIGHTING LIMITED

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DATA SHEET No.

T041RLS

Page

1 of 2

Revision No

Date

7th JUNE 2005

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

PART B

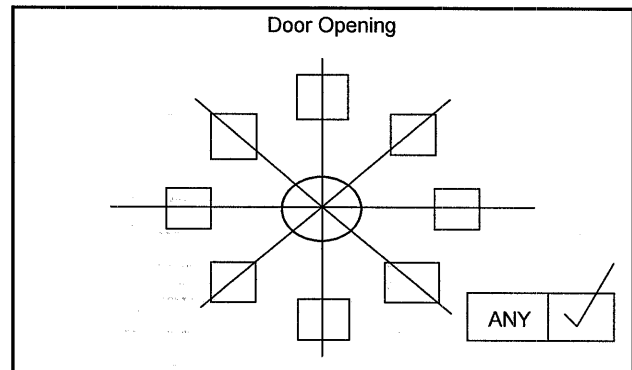
Foundation data

Relavent 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.

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)

Standard Soil Type Factor G		
630	390	230
0.51 (m)	0.824 (m)	1.397 (m)

Bolt hole centres	Hole diameter	Design load/bolt
200 (mm)	30 x 20 (mm)	17481 (N)

Moment (Nm) Shear (N)



(LOADINGS FOR COLUMN ARE UNFACTORED)

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

Data Sheet No.	T041RLS
Revision	Page 2 of 2
Date	7th JUNE 2005

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			53*	1.152	1.054	0.961	0.756

Single Arm Bracket Column

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

*Max Headload - RLS0 = 18kg, RLS0X = 28kg, RLS1 = 38kg
RLS2 = 53kg

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	S275	275	AS REQUIRED			8	0.363	0.332	0.303	0.24
0.5	BKT-05/S	S275	275	AS REQUIRED			8	0.258	0.236	0.215	0.168
0.75	BKT-075/S	S275	275	AS REQUIRED			8	0.194	0.177	0.16	0.124
1	BKT-10/S	S275	275	AS REQUIRED			8	0.151	0.136	0.123	0.093
1.25	BKT-125/S	S275	275	AS REQUIRED			8	0.118	0.106	0.094	0.069

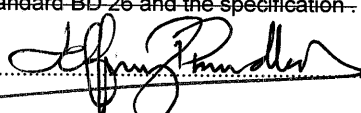
Double Arm Bracket Column

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	0.719	0.658	0.6	0.471
0.5	BKT-05/D	S275	275	AS REQUIRED			8	0.697	0.637	0.579	0.452
0.75	BKT-075/D	S275	275	AS REQUIRED			8	0.676	0.616	0.559	0.434
1	BKT-10/D	S275	275	AS REQUIRED			8	0.654	0.595	0.539	0.415
1.25	BKT-125/D	S275	275	AS REQUIRED			8	0.633	0.575	0.519	0.397

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.....7th JUNE 2005.