

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.

TB081

Page

1 of 2

Revision No

Date

24th MAY 2005

NAME OF CONTRACT:

PART A

General

Column Reference

Column nominal height (m)

Column material

Material design strength N/mm sq.

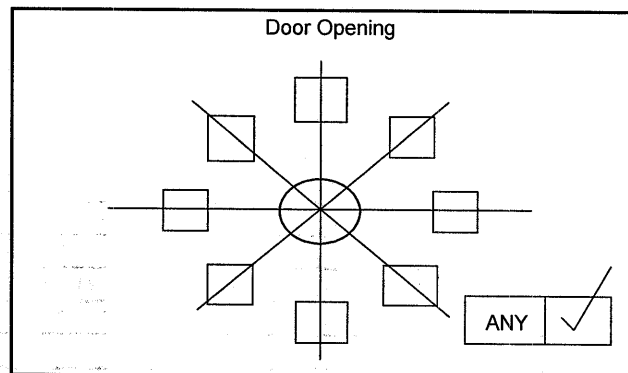
No. of door openings

Door opening size
Height (mm)
Width (mm)

Height (mm)	Width (mm)	Depth (mm)
600	108	115

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)

Standard Soil Type Factor G

630	390	230
***** (m)	***** (m)	0.262 (m)

Bolt hole centres	Hole diameter	Design load/bolt
200 (mm)	35 x 25 (mm)	25202 (N)

Moment (Nm) Shear (N)



(LOADINGS FOR COLUMN ARE UNFACTORED)

PART B

Foundation data

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.

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

Data Sheet No.	TB081
Revision	Page 2 of 2
Date	24th MAY 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		35	Maximum windage area (sq.m) For Rationalized Wind Loading Factors			
			0.302	0.265	0.231	0.159

Single 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)					
0.5	BKT-05/S	S275	275	AS REQUIRED			10	0.308	0.27	0.235	0.161
0.75	BKT-075/S	S275	275	AS REQUIRED			10	0.281	0.245	0.211	0.141
1	BKT-10/S	S275	275	AS REQUIRED			10	0.256	0.221	0.189	0.122
1.5	BKT-15/S	S275	275	AS REQUIRED			10	0.21	0.178	0.149	0.088
2	BKT-20/S	S275	275	AS REQUIRED			10	0.149	0.125	0.098	0.042


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)					
0.5	BKT-05/D	S275	275	AS REQUIRED			10	0.154	0.133	0.114	0.073
0.75	BKT-075/D	S275	275	AS REQUIRED			10	0.139	0.118	0.099	0.059
1	BKT-10/D	S275	275	AS REQUIRED			10	0.124	0.104	0.085	0.045
1.5	BKT-15/D	S275	275	AS REQUIRED			10	0.095	0.075	0.056	*****
2	BKT-20/D	S275	275	AS REQUIRED			10	0.049	*****	*****	*****

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.....24th MAY 2005.

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