

Name of Manufacturer:

**Abacus®**

ABACUS LIGHTING LIMITED

Sutton - in - Ashfield, Nottinghamshire.

NG17 5FT ENGLAND

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DATA SHEET No.

**TB060**

Page

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Revision No

Date

23rd MAY 2005

NAME OF CONTRACT:

**PART A**

General

Column Reference

TB060

Acceptable positions of bracket arms  
relative to door position

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

500 (mm)

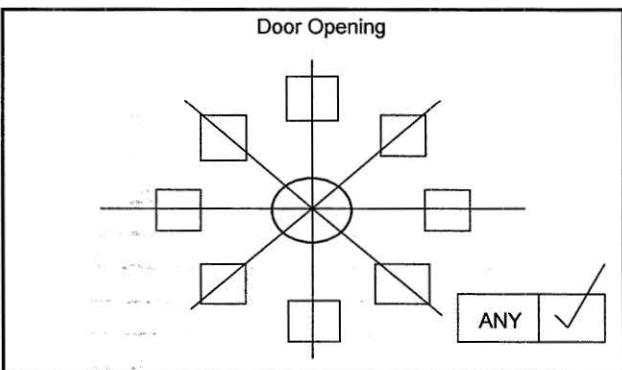
Width

100 (mm)

Cross-section of base  
compartment

Height (mm)	Width (mm)	Depth (mm)
500	95	90

Corrosion protection



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

Standard Soil Type Factor G

630	390	230
***** (m)	0.18 (m)	0.306 (m)

Flange base

Bolt hole centres	Hole diameter	Design load/bolt
200 (mm)	30 x 20 (mm)	17072 (N)

Relavent forces and moments at ground level.

Line of action of max moment relative to door opening

Moment 4829 (Nm) Shear 1128 (N)



(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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Date 23rd MAY 2005

PART C
Acceptable Lanterns

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

Rationalized Wind Loading Factors				
Lantern Connection	Lantern	396	429	466
Diameter (mm)	Length (mm)	Max. Wt. (Kg)	Maximum windage area (sq.m)	
For Rationalized Wind Loading Factors				
AS REQUIRED	35	0.553	0.495	0.44
				0.321

Single Arm Bracket Column
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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)			
		Grade	Design Strength N/sq.mm	Fixing Angle	Diameter (mm)	Length (mm)		For Rationalized Wind Loading Factors	0.53	0.474	0.421
0.5	BKT-05/S	S275	275	AS REQUIRED			10	0.53	0.474	0.421	0.307
0.75	BKT-075/S	S275	275	AS REQUIRED			10	0.486	0.434	0.384	0.277
1	BKT-10/S	S275	275	AS REQUIRED			10	0.477	0.397	0.35	0.249
1.25	BKT-125/S	S275	275	AS REQUIRED			10	0.395	0.353	0.314	0.224
1.5	BKT-15/S	S275	275	AS REQUIRED			10	0.348	0.31	0.275	0.198

Double Arm Bracket Column
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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)			
		Grade	Design Strength N/sq.mm	Fixing Angle	Diameter (mm)	Length (mm)		For Rationalized Wind Loading Factors	0.298	0.265	0.233
0.5	BKT-05/D	S275	275	AS REQUIRED			10	0.298	0.265	0.233	0.166
0.75	BKT-075/D	S275	275	AS REQUIRED			10	0.281	0.249	0.218	0.151
1	BKT-10/D	S275	275	AS REQUIRED			10	0.265	0.233	0.202	0.136
1.25	BKT-125/D	S275	275	AS REQUIRED			10	0.249	0.217	0.186	0.121
1.5	BKT-15/D	S275	275	AS REQUIRED			10	0.233	0.201	0.171	0.106

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 Contra

Date.....23rd MAY 2005.

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