

Name of Manufacturer:

# Abacus®

**ABACUS LIGHTING LIMITED**

Sutton - in - Ashfield, Nottinghamshire.

NG17 5FT ENGLAND

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DATA SHEET No.

**T051RLS**

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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.

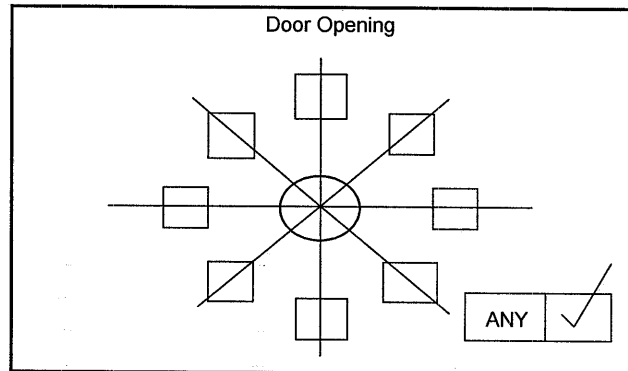
No. of door openings

Door opening size  
 Height  (mm)  
 Width  (mm)

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:

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
0.208 (m)	0.336 (m)	0.57 (m)

Bolt hole centres	Hole diameter	Design load/bolt
200 (mm)	30 x 20 (mm)	16592 (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)

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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
			Maximum windage area (sq.m) For Rationalized Wind Loading Factors			
AS REQUIRED		38*	0.775	0.703	0.634	0.484

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	S275	275	AS REQUIRED			8	0.298	0.271	0.246	0.19
0.5	BKT-05/S	S275	275	AS REQUIRED			8	0.214	0.194	0.175	0.133
0.75	BKT-075/S	S275	275	AS REQUIRED			8	0.161	0.145	0.13	0.097
1	BKT-10/S	S275	275	AS REQUIRED			8	0.124	0.111	0.098	0.071
1.25	BKT-125/S	S275	275	AS REQUIRED			8	0.096	0.085	0.074	0.051

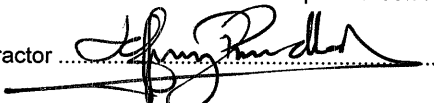
Double Arm Bracket Column

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	0.459	0.416	0.375	0.286
0.5	BKT-05/D	S275	275	AS REQUIRED			8	0.441	0.398	0.358	0.269
0.75	BKT-075/D	S275	275	AS REQUIRED			8	0.422	0.38	0.34	0.253
1	BKT-10/D	S275	275	AS REQUIRED			8	0.404	0.363	0.323	0.237
1.25	BKT-125/D	S275	275	AS REQUIRED			8	0.387	0.345	0.306	0.221

**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.

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