

Name of Manufacturer:

# Abacus®

**ABACUS LIGHTING LIMITED**

Sutton - in - Ashfield, Nottinghamshire.

NG17 5FT ENGLAND

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DATA SHEET No.

**AL041RLS**

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Revision No

Date

09-Jan-07

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 

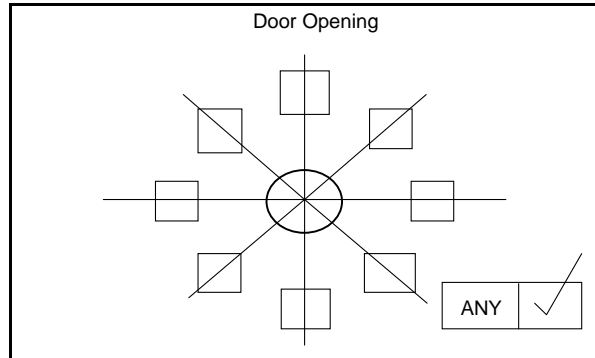
Height	<input type="text" value="575"/>	(mm)
Width	<input type="text" value="130"/>	(mm)

Cross-section of base compartment 

Height (mm)	Width (mm)	Depth (mm)
<input type="text" value="330"/>	<input type="text" value="110"/>	<input type="text" value="100"/>

Corrosion protection

Acceptable positions of bracket arms relative to door position



Manufacturers drawing ref. no:

Basic system type

Additional sacrificial Aluminium 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		
<input type="text" value="630"/>	<input type="text" value="390"/>	<input type="text" value="230"/>
***** (m)	0.22 (m)	0.373 (m)

Bolt hole centres	Hole diameter	Design load/bolt
<input type="text" value="200"/> (mm)	<input type="text" value="30 x 20"/> (mm)	<input type="text" value="9978"/> (N)

Moment	<input type="text" value="2959"/> (Nm)	Shear	<input type="text" value="980"/> (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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Date 05-Feb-06

**PART C**  
Acceptable Lanterns

Post Top Columns

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

Single Arm Bracket Column

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

Lantern Connection		Lantern	Rationalized Wind Loading Factors			
			420.0	455.0	495.0	594.0
Diameter (mm)	Length (mm)	Max. Wt. (Kg)	Maximum windage area (sq.m) For Rationalized Wind Loading Factors			
AS REQUIRED		15	0.713	0.65	0.588	0.471
		20	0.699	0.637	0.576	0.461
		25	0.687	0.625	0.566	0.452
		30	0.676	0.616	0.557	0.445
		47.9	0.646	0.588	0.532	0.424

**\*Max Post top Headload = 47.9kg Note \***  
**22.7kg (RLS0), 32kg (RLS0X), 47.9kg (RLS1)**  
 Note: R.W.F. Value base on a probability factor of 40 years

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)					
0.15		6063	90	AS REQUIRED			5	0.332	0.303	0.275	0.222
0.15		6063	90	AS REQUIRED			10	0.324	0.295	0.268	0.216

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)					
0.15		6063	90	AS REQUIRED			5	0.337	0.305	0.275	0.217
0.15		6063	90	AS REQUIRED			10	0.324	0.293	0.264	0.208

**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 *[Signature]*

Date.....5<sup>th</sup> February 2007

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