

Name of Manufacturer:

Abacus®

ABACUS LIGHTING LIMITED

Sutton - in - Ashfield, Nottinghamshire.

NG17 5FT ENGLAND

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DATA SHEET No.

TB068

Page

1 of 2

Revision No

Date

23rd 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)

| Cross-section of base compartment | Height (mm) | Width (mm) | Depth (mm) |
|-----------------------------------|-------------|------------|------------|
| | 600 | 108 | 115 |

Corrosion protection

PART B

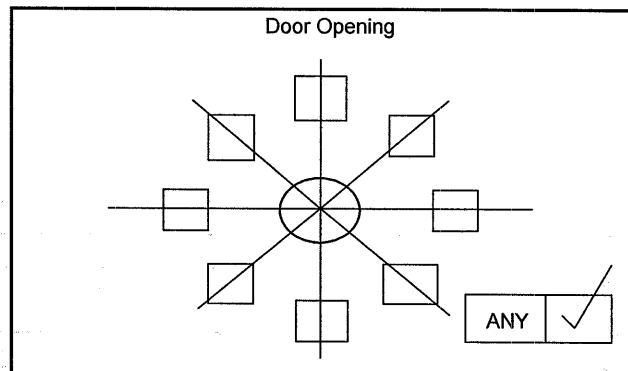
Foundation data

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 |
| 0.203 (m) | 0.328 (m) | 0.556 (m) |

| Bolt hole centres | Hole diameter | Design load/bolt |
|-------------------|---------------|------------------|
| 300 (mm) | 30 (mm) | 21098 (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. | TB068 |
| Revision | Page 2 of 2 |
| Date | 23rd 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 |
| | | | Maximum windage area (sq.m) For Rationalized Wind Loading Factors | | | |
| AS REQUIRED | | 75 | 1.301 | 1.19 | 1.084 | 0.857 |

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 | | | 20 | 0.903 | 0.825 | 0.751 | 0.592 |
| 0.75 | BKT-075/S | S275 | 275 | AS REQUIRED | | | 20 | 0.793 | 0.723 | 0.658 | 0.516 |
| 1 | BKT-10/S | S275 | 275 | AS REQUIRED | | | 20 | 0.702 | 0.639 | 0.581 | 0.453 |
| 1.25 | BKT-125/S | S275 | 275 | AS REQUIRED | | | 20 | 0.622 | 0.569 | 0.515 | 0.4 |
| 1.5 | BKT-15/S | S275 | 275 | AS REQUIRED | | | 20 | 0.512 | 0.47 | 0.43 | 0.343 |

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 | | | 20 | 0.727 | 0.663 | 0.603 | 0.473 |
| 0.75 | BKT-075/D | S275 | 275 | AS REQUIRED | | | 20 | 0.709 | 0.645 | 0.586 | 0.456 |
| 1 | BKT-10/D | S275 | 275 | AS REQUIRED | | | 20 | 0.69 | 0.627 | 0.568 | 0.44 |
| 1.25 | BKT-125/D | S275 | 275 | AS REQUIRED | | | 20 | 0.592 | 0.545 | 0.5 | 0.4 |
| 1.5 | BKT-15/D | S275 | 275 | AS REQUIRED | | | 20 | 0.487 | 0.447 | 0.409 | 0.325 |

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.....23rd MAY 2005.

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