

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.

**T097RLH**

Page

1 of 2

Revision No

Date

9th 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

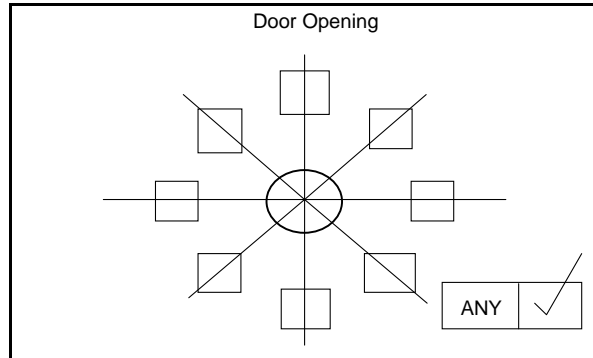
Door opening size Height  (mm)

Width  (mm)

Cross-section of base compartment	Height (mm)	Width (mm)	Depth (mm)
	406	145	150

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)

**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		
630	390	230
***** (m)	***** (m)	0.268 (m)

Bolt hole centres	Hole diameter	Design load/bolt
300 (mm)	30 (mm)	33885 (N)

Moment  (Nm) Shear  (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)

<b>Data Sheet No.</b>	<b>T097RLH</b>
Revision	Page 2 of 2
Date	9th JUNE 2005

<b>PART C</b>
Acceptable Lanterns

Post Top Columns
------------------

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	576
Diameter (mm)	Length (mm)	Max. Wt. (Kg)	Maximum windage area (sq.m) For Rationalized Wind Loading Factors		
AS REQUIRED	92*	0.805	0.734	0.67	0.536

Single Arm Bracket Column
---------------------------

\*Max Headload - RLH1M = 50kg, RLH2M = 92kg

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			12	0.331	0.301	0.274	0.217
1	BKT-10/S	S275	275	AS REQUIRED			12	0.222	0.201	0.181	0.14
1.5	BKT-15/S	S275	275	AS REQUIRED			12	0.154	0.138	0.122	0.091
2	BKT-20/S	S275	275	AS REQUIRED			12	0.097	0.084	0.072	*****

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			12	0.475	0.432	0.393	0.31
1	BKT-10/D	S275	275	AS REQUIRED			12	0.441	0.399	0.361	0.279
1.5	BKT-15/D	S275	275	AS REQUIRED			12	0.362	0.332	0.303	0.24
2	BKT-20/D	S275	275	AS REQUIRED			12	0.357	0.317	0.28	0.202

<b>PART D</b>
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.....9th JUNE 2005.

**ABACUS LIGHTING LTD**

Sutton - in - Ashfield Nottinghamshire NG17 5FT Tel: (+44) 01623 511111 Fax: (+44) 01623 552133



PATENT No. 968113  
 Copyright Strictly Reserved  
 Abacus Municipal Ltd.  
 ©1989

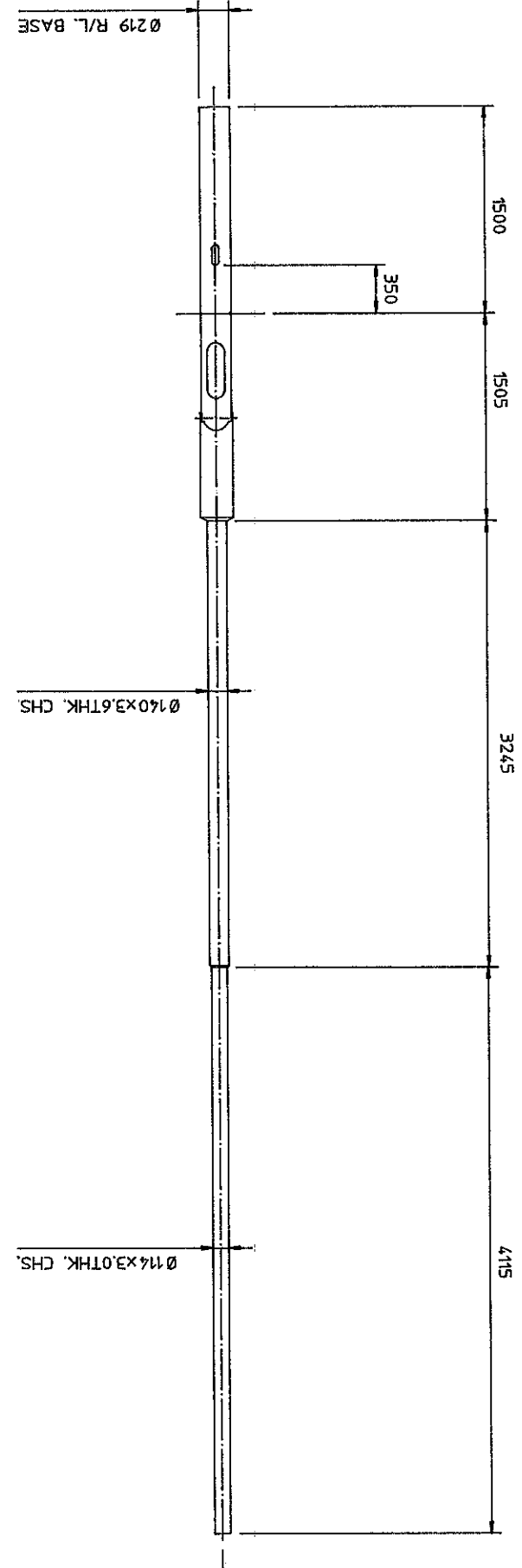
GENERAL TOLERANCES  
 UNLESS STATED  
 OTHERWISE:-  
 0-500mm-----\*5  
 500mm-1000mm---\*10  
 ABOVE-----\*20

DATE: 23.11.89  
 SCALE: 1:33.333  
 CHECKED: A BOOTH  
 DRAWN: S WOOD

SALES ORDER No. T097RLH  
 DRG. No. T097RLH  
 CLIENT: STANDARD COMPONENT  
 SUTTON-IN-ASHFIELD, NOTTS  
**Abacus**  
 TITLE: DETAIL OF T097RLH COLUMN

REV.	SIG.	DESCRIPTION	DATE	CHD.
A	AAT	SEE AMD NO 1772	11.2.95	

ITEM NO. T097RLH  
 WEIGHT = 160KG.



MATERIAL	LENGTH	QTY
Ø114x3.0CHS	4265	1
Ø140x3.6CHS	3315	1

1. FIRST ANGLE PROJECTION

2. DIMENSIONS SHOWN IN BRACKETS THUS (25) ARE REF. DIMENSIONS ONLY.

3. REMOVE ALL BURS AND SHARP EDGES.

4. DO NOT SCALE IF IN DOUBT ASK.

5. WELDING SYMBOLS ARE TO BS 499.

6. ALL STANDARDS AND SPECIFICATIONS ARE TO BE TO THE LATEST REVISIONS.

7. FILLET WELDS TO BE TO WELD PROCEDURE No. 031W.

8. CHS TO BS4360 GRD 50 WITH A MIN YIELD STRESS OF 355N/mm<sup>2</sup> sq AND A TENSILE STRENGTH OF 490N/mm<sup>2</sup> sq. PLATE TO BS4360 GRD 43A. PLATE 19mm THICK AND OVER TO BE CHARPY TESTED TO A VALUE OF 27J. AT -15°C.

9. FINISH: HOT DIP GALV TO BS729.

10. BASE COMPARTMENT IS FITTED WITH A 11mm THICK TIMBER BASEBOARD MEASURING 1220 x 120 AND A M8 EARTHING SET. THE UPPER DOOR OPENING IS 578 x 165 AND IS COVERED BY THE LID OF THE COLUMN. THE LOWER DOOR OPENING IS 406 x 127 AND IS COVERED BY A 2mm THICK PRESSED STEEL DOOR SECURED BY A TRIANGULAR HEADED ST. ST. SCREW

11. CABLE ENTRY SLOT MEASURES 150 x 50

12. ALL TIMBER COMPONENTS TO BE CREOSOTED.

13. FOR DETAILS OF SHAFT JOINT SEE DRG. NO. C201/47.

14. FOR DETAILS OF 219 R/L. BASE SEE DRG. NO. RL201/11 SERIES.

NOTES

PATENT No. 968113  
 Copyright Strictly Reserved  
 Abacus Municipal Ltd.  
 ©1996

GENERAL TOLERANCES  
 UNLESS STATED  
 OTHERWISE:-  
 0-500mm-----±5  
 501mm-1000mm---±10  
 ABOVE-----±20

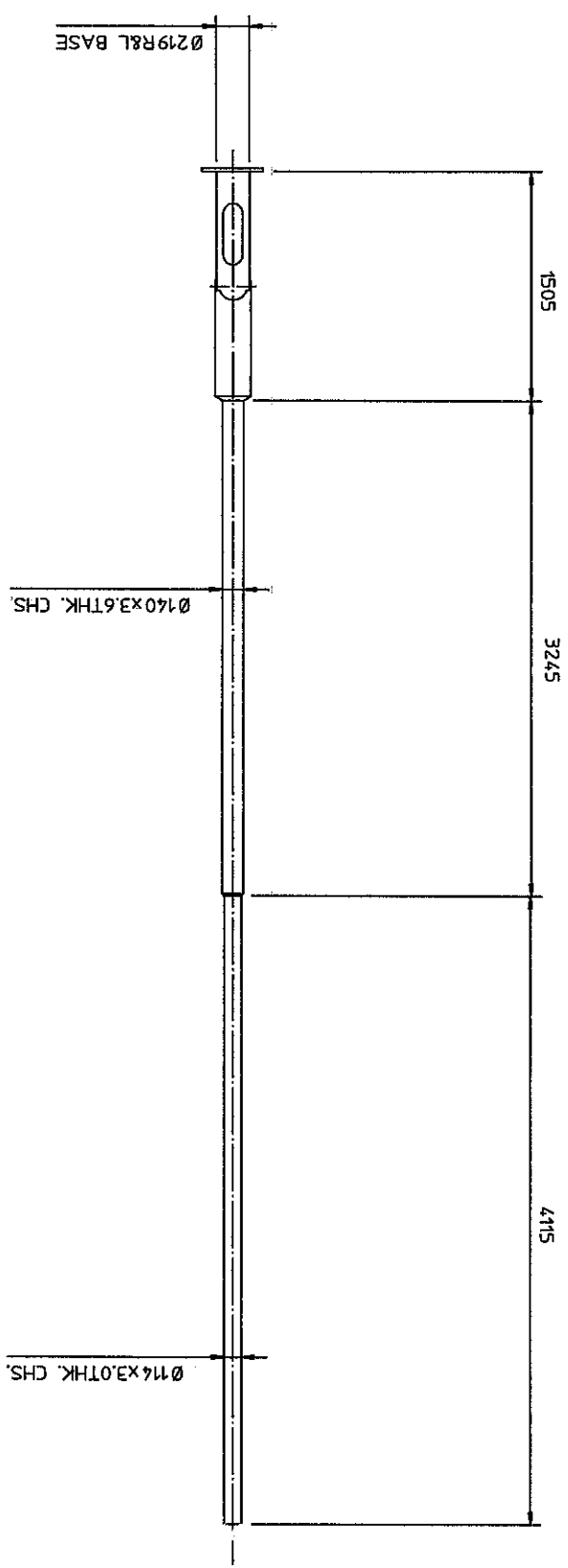
DATE 26/6/96  
 SCALE  
 CHECKED  
 DRAWN A.800TH

SALES ORDER No.  
 TITLE  
 DETAIL OF T097RLH/FP  
 COLUMN

DRG. No. T097RLH/FP  
 CLIENT STANDARD COMPONENT  
 SUTTON-IN-ASHFIELD, NOTTS  
**Abacus**  
 (R)

REV.	SIG.	DESCRIPTION	DATE	CHD.

ITEM NO. T097RLH/FP  
 WEIGHT = 133KG



MATERIAL	LENGTH	QTY
Ø114X3.0CHS	4265	1
Ø140X3.6CHS	3315	1

1. FIRST ANGLE PROJECTION

2. DIMENSIONS SHOWN IN BRACKETS THUS (25) ARE REF. DIMENSIONS ONLY.

3. REMOVE ALL BURRS AND SHARP EDGES.

4. DO NOT SCALE IF IN DOUBT ASK.

5. WELDING SYMBOLS ARE TO BS 499

6. ALL STANDARDS AND SPECIFICATIONS ARE TO BE TO THE LATEST REVISIONS.

7. FILLET WELDS TO BE TO WELD PROCEDURE No. 031W

8. CHS TO BS4360 GRD 50 WITH A MIN YIELD STRESS OF 355N/mm<sup>2</sup> AND A TENSILE STRENGTH OF 490N/mm<sup>2</sup> PLATE TO BS4360 GRD 43A. PLATE 19mm THICK AND OVER TO BE CHARPY TESTED TO A VALUE OF 27J AT -15°C

9. FINISH HOT DIP GALV TO BS729

10. BASE COMPARTMENT IS FITTED WITH A 11mm THICK TIMBER BASEBOARD MEASURING 1220 X 120 AND A M8 EARTHING SET THE UPPER DOOR OPENING IS 578 X 165 AND IS COVERED BY THE LID OF THE COLUMN THE LOWER DOOR OPENING IS 406 X 127 AND IS COVERED BY A 2mm THICK PRESSED STEEL DOOR SECURED BY A TRIANGULAR HEADED ST. ST. SCREW

11. FLANGE PLATE IS TYPE '2' TO DRG NO C201/22

12. ALL TIMBER COMPONENTS TO BE CREOSOTED.

13. FOR DETAILS OF SHAFT JOINT SEE DRG. NO C201/47

14. FOR DETAILS OF 219 R/L BASE SEE DRG NO RL201/11 SERIES

