

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.

**T127RLH**

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

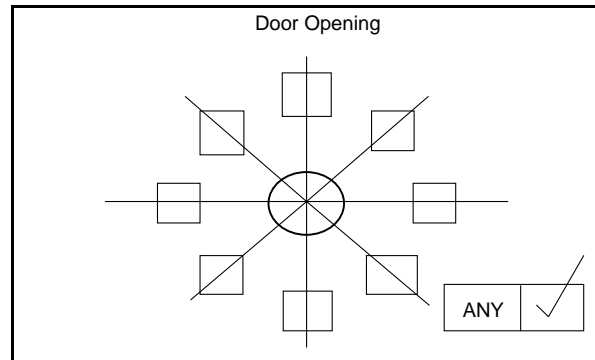
Door opening size 

Height	<input type="text" value="406"/>	(mm)
Width	<input type="text" value="127"/>	(mm)

Height (mm)	Width (mm)	Depth (mm)
<input type="text" value="406"/>	<input type="text" value="145"/>	<input type="text" value="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		
<input type="text" value="630"/>	<input type="text" value="390"/>	<input type="text" value="230"/>
***** (m)	***** (m)	***** (m)

Bolt hole centres	Hole diameter	Design load/bolt
<input type="text" value="300"/> (mm)	<input type="text" value="30"/> (mm)	<input type="text" value="33160"/> (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)

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<b>PART C</b>
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	576
Diameter (mm)	Length (mm)	Max. Wt. (Kg)	Maximum windage area (sq.m) For Rationalized Wind Loading Factors		
AS REQUIRED	48*	0.312	0.279	0.252	0.195

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

\*Max Headload - RLH1M = 18kg, RLH2M = 48kg

Lantern Lever Arm (mm)	
Due to Wt. of Lantern	Due to Wind on Lantern
500	500

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	0.136	0.121	0.108	0.082
0.75	BKT-075/S	S275	275	AS REQUIRED			12	0.108	0.096	0.085	0.062
1	BKT-10/S	S275	275	AS REQUIRED			12	0.086	0.075	0.065	*****
1.25	BKT-125/S	S275	275	AS REQUIRED			12	0.067	0.057	*****	*****
1.5	BKT-15/S	S275	275	AS REQUIRED			12	0.05	*****	*****	*****

Double Arm Bracket Column
---------------------------

Lantern Lever Arm (mm)	
Due to Wt. of Lantern	Due to Wind on Lantern
500	500

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	0.16	0.141	0.125	0.093
0.75	BKT-075/D	S275	275	AS REQUIRED			12	0.145	0.127	0.111	0.079
1	BKT-10/D	S275	275	AS REQUIRED			12	0.131	0.113	0.097	0.065
1.25	BKT-125/D	S275	275	AS REQUIRED			12	0.116	0.098	0.083	*****
1.5	BKT-15/D	S275	275	AS REQUIRED			12	0.102	0.084	0.069	*****

<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.

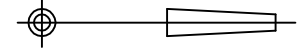
**ABACUS LIGHTING LTD**

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



NOTES

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 EN 24063 & BS EN 22553.

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 BS EN 10210 GRD S355 WITH A TENSILE STRENGTH OF 490N/mm.sq. PLATE TO BS EN 10025 GRD S275. PLATE 25mm THICK AND OVER TO BE CHARPY TESTED TO A VALUE OF 27J. AT -20°C.

9. FINISH: HOT DIP GALV TO BS EN ISO 1461.

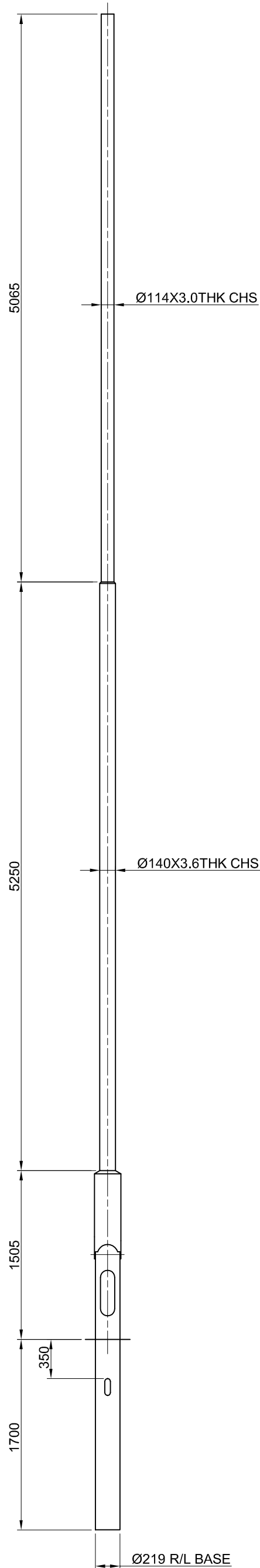
10. BASE COMPARTMENT IS FITTED WITH A 11mm THICK TIMBER BASEBOARD MEASURING 1220 x 120 AND A M8 EARTHING SET. THE UPPER DOOR OPENING IS 578 x 165 AND IS COVERED BY THE LID OF THE COLUMN. THE LOWER DOOR OPENING IS 406 x 127 AND IS COVERED BY A 2mm THICK PRESSED STEEL DOOR SECURED BY A TRIANGULAR HEADED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



ITEM NO: T127RLH  
WEIGHT: 185 KG.

MATERIAL	LENGTH	QTY
Ø114X3.0THK CHS	5215	1
Ø140X3.6THK CHS	5325	1

REV:	SIG:	DESCRIPTION	DATE	CHD.
C	SDW	SEE AMD 1941	14/11/95	A.B
B	AAT	SEE AMD 1772	28/2/95	SW
A	AB	SHA140/10 WAS /5	28.01.95	SW

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GENERAL TOLERANCES  
UNLESS STATED  
OTHERWISE: -

0-500mm----- ±5  
501mm-1000mm--- ±10  
ABOVE----- ±20

DRAWN A. BOOTH.

CHECKED S. WOOD.

SCALE DO NOT SCALE

DATE 13/11/89

TITLE

DETAIL OF T127RLH COLUMN.

SALES ORDER No.

**Abacus**<sup>®</sup>  
SUTTON-IN-ASHFIELD, NOTTS

CLIENT STANDARD COMPONENT

DRG. No. T127RLH

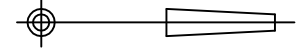
C

PATENT No. 968113  
REG. DESIGN No.



NOTES

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 EN 24063 & BS EN 22553.

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 BS EN 10210 GRD S355 WITH A TENSILE STRENGTH OF 490N/mm.sq. PLATE TO BS EN 10025 GRD S275. PLATE 25mm THICK AND OVER TO BE CHARPY TESTED TO A VALUE OF 27J. AT -20 °C.

9. FINISH: HOT DIP GALV TO BS EN ISO 1461.

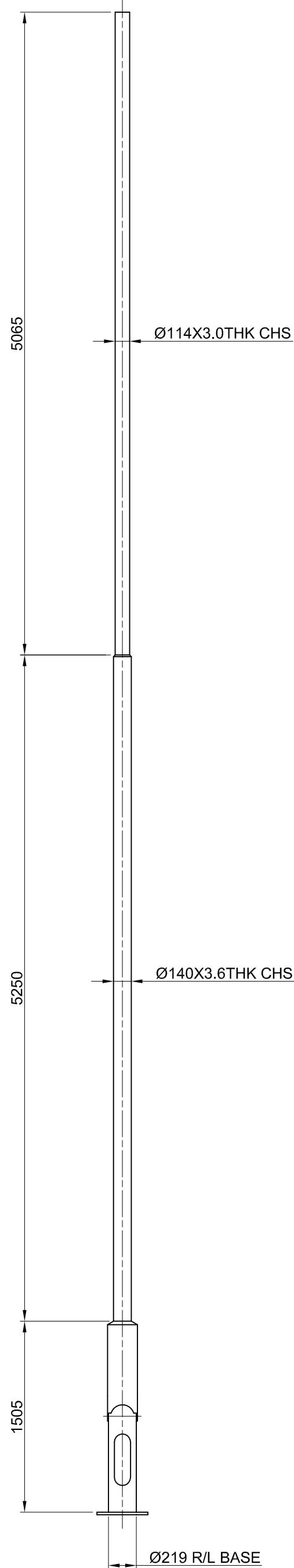
10. BASE COMPARTMENT IS FITTED WITH A 11mm THICK TIMBER BASEBOARD MEASURING 1220 x 120 AND A M8 EARTHING SET. THE UPPER DOOR OPENING IS 578 x 165 AND IS COVERED BY THE LID OF THE COLUMN. THE LOWER DOOR OPENING IS 406 x 127 AND IS COVERED BY A 2mm THICK PRESSED STEEL DOOR SECURED BY A TRIANGULAR HEADED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



ITEM NO: T127RLH/FP  
WEIGHT: 182 KG.

MATERIAL	LENGTH	QTY
Ø114X3.0THK CHS	5215	1
Ø140X3.6THK CHS	5325	1

REV:	SIG:	DESCRIPTION	DATE	CHD.
A	AAT	SEE AMD. No. 1772.	28.01.95	

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GENERAL TOLERANCES  
UNLESS STATED  
OTHERWISE: -

0-500mm----- ±5  
501mm-1000mm--- ±10  
ABOVE----- ±20

DRAWN S. WOOD.  
CHECKED A. BOOTH.  
SCALE DO NOT SCALE  
DATE 24.11.89.

TITLE  
DETAIL OF T127RLH/FP COLUMN.

SALES ORDER No.

**Abacus**<sup>®</sup>  
SUTTON-IN-ASHFIELD, NOTTS

CLIENT STANDARD COMPONENT

DRG. No. T127RLH/FP A

PATENT No. 968113  
REG. DESIGN No.