

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.

T087RLH

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

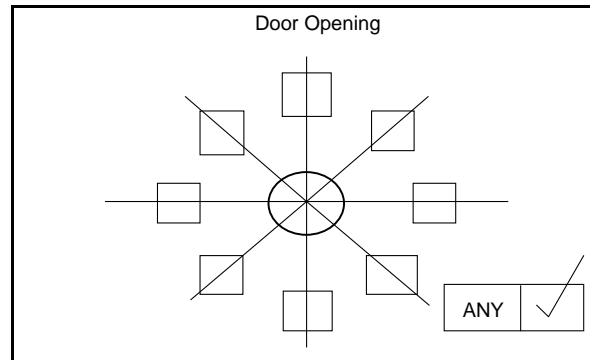
Door opening size Height (mm)

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)	0.306 (m)	0.519 (m)

Bolt hole centres	Hole diameter	Design load/bolt
300 (mm)	30 (mm)	34329 (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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PART C
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	112*	1.075	0.985	0.901	0.724

Single Arm Bracket Column

*Max Headload - RLH1M = 68kg, RLH2M = 112kg

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	0.408	0.374	0.341	0.272
1	BKT-10/S	S275	275	AS REQUIRED			12	0.275	0.25	0.227	0.178
1.5	BKT-15/S	S275	275	AS REQUIRED			12	0.194	0.175	0.157	0.119
2	BKT-20/S	S275	275	AS REQUIRED			12	0.13	0.114	0.1	0.069

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	0.652	0.596	0.544	0.433
1	BKT-10/D	S275	275	AS REQUIRED			12	0.57	0.525	0.482	0.386
1.5	BKT-15/D	S275	275	AS REQUIRED			12	0.391	0.359	0.328	0.26
2	BKT-20/D	S275	275	AS REQUIRED			12	0.476	0.435	0.397	0.312

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.....9th JUNE 2005.

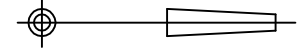
ABACUS LIGHTING LTD

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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.

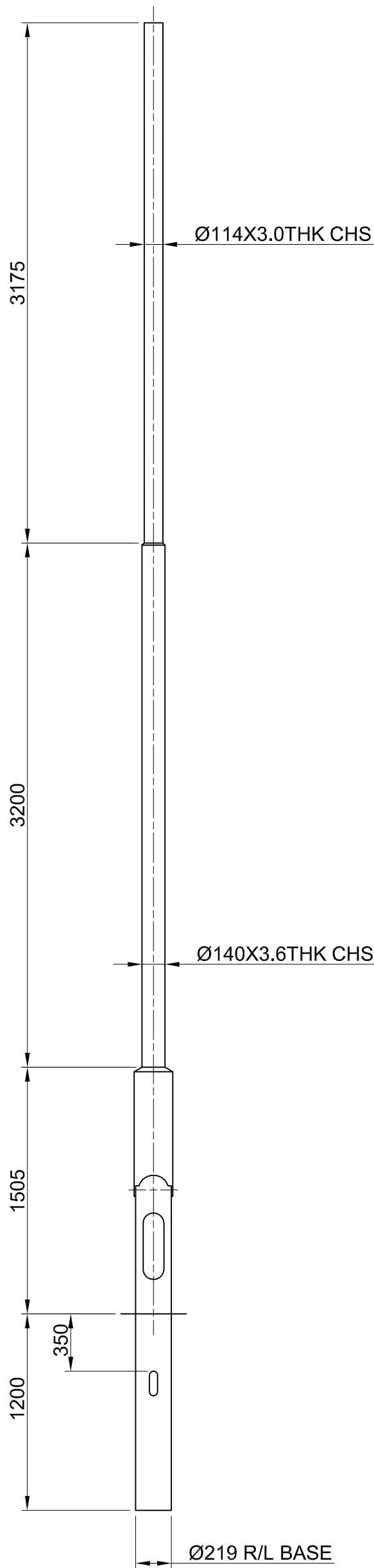
10. BASE COMPARTMENT IS FITTED WITH A 11mm THICK TIMBER BASEBOARD MEASURING 1220 x 120 AND A M8 EARTHING SET. THE UPPER DOOR OPENING IS 578 x 165 AND IS COVERED BY THE LID OF THE COLUMN. THE LOWER DOOR OPENING IS 406 x 127 AND IS COVERED BY A 2mm THICK PRESSED STEEL DOOR SECURED BY A TRIANGULAR HEADED 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: T087RLH
WEIGHT: 137 KG.

MATERIAL	LENGTH	QTY
Ø114X3.0THK CHS	3325	1
Ø140X3.6THK CHS	3275	1

REV:	SIG:	DESCRIPTION	DATE	CHD.
C	AAT	SEE AMD 1772	28/1/95	A,B
B	SDW	SEE AMD 1769	17/1/95	SW
A	AB	SEE AMD 1487	13/11/92	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 5/9/89

TITLE

DETAIL OF T087RLH COLUMN.

SALES ORDER No.

Abacus[®]
SUTTON-IN-ASHFIELD, NOTTS

CLIENT STANDARD COMPONENT

DRG. No. T087RLH

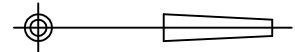
C

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.

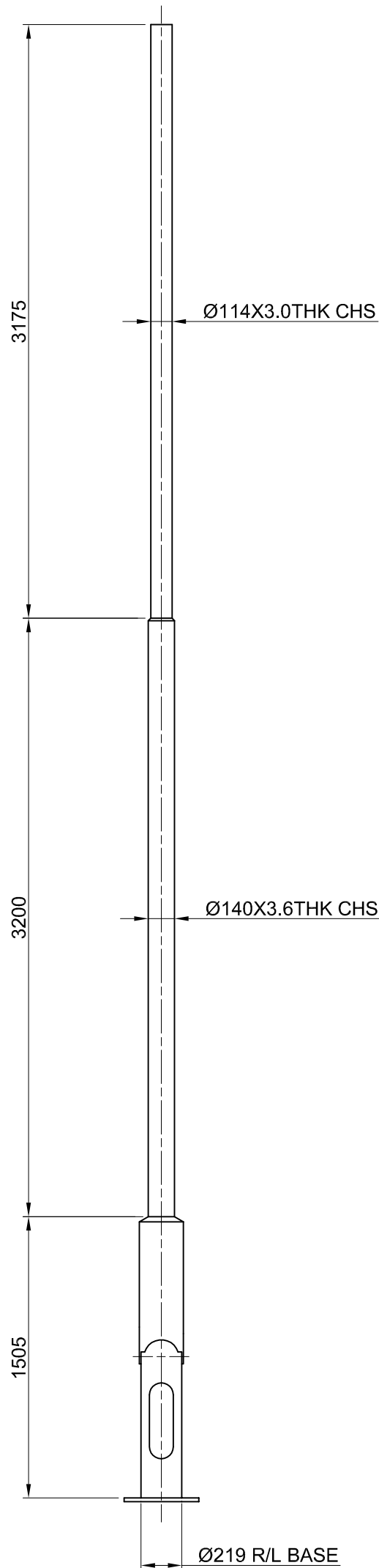
10. BASE COMPARTMENT IS FITTED WITH A 11mm THICK TIMBER BASEBOARD MEASURING 1220 x 120 AND A M8 EARTHING SET. THE UPPER DOOR OPENING IS 578 x 165 AND IS COVERED BY THE LID OF THE COLUMN. THE LOWER DOOR OPENING IS 406 x 127 AND IS COVERED BY A 2mm THICK PRESSED STEEL DOOR SECURED BY A TRIANGULAR HEADED 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: T087RLH/FP
WEIGHT: 147 KG.

MATERIAL	LENGTH	QTY
Ø114X3.0THK CHS	3325	1
Ø140X3.6THK CHS	3275	1

REV:	SIG:	DESCRIPTION	DATE	CHD.
C	A.T.	SEE AMD. No. 1772.	27.01.95	A.B.
B	SDW	SEE AMD. No. 1769.	17.01.95	A.B.
A	A.B.	SEE AMD. No. 1487.	13.11.92	S.W.

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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 05.09.89.

TITLE
DETAIL OF T087RLH/FP COLUMN.

SALES ORDER No.

Abacus[®]
SUTTON-IN-ASHFIELD, NOTTS

CLIENT STANDARD COMPONENT

DRG. No. T087RLH/FP C

PATENT No. 968113
REG. DESIGN No.