PRIME
CRANE SERVICES
Russell Parker
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0408 929 885

For;

LIFT STUDY

CARROLL CONSTRUCT
BROADSOUND ENERGY PARK
LIFT ROOF MODULES

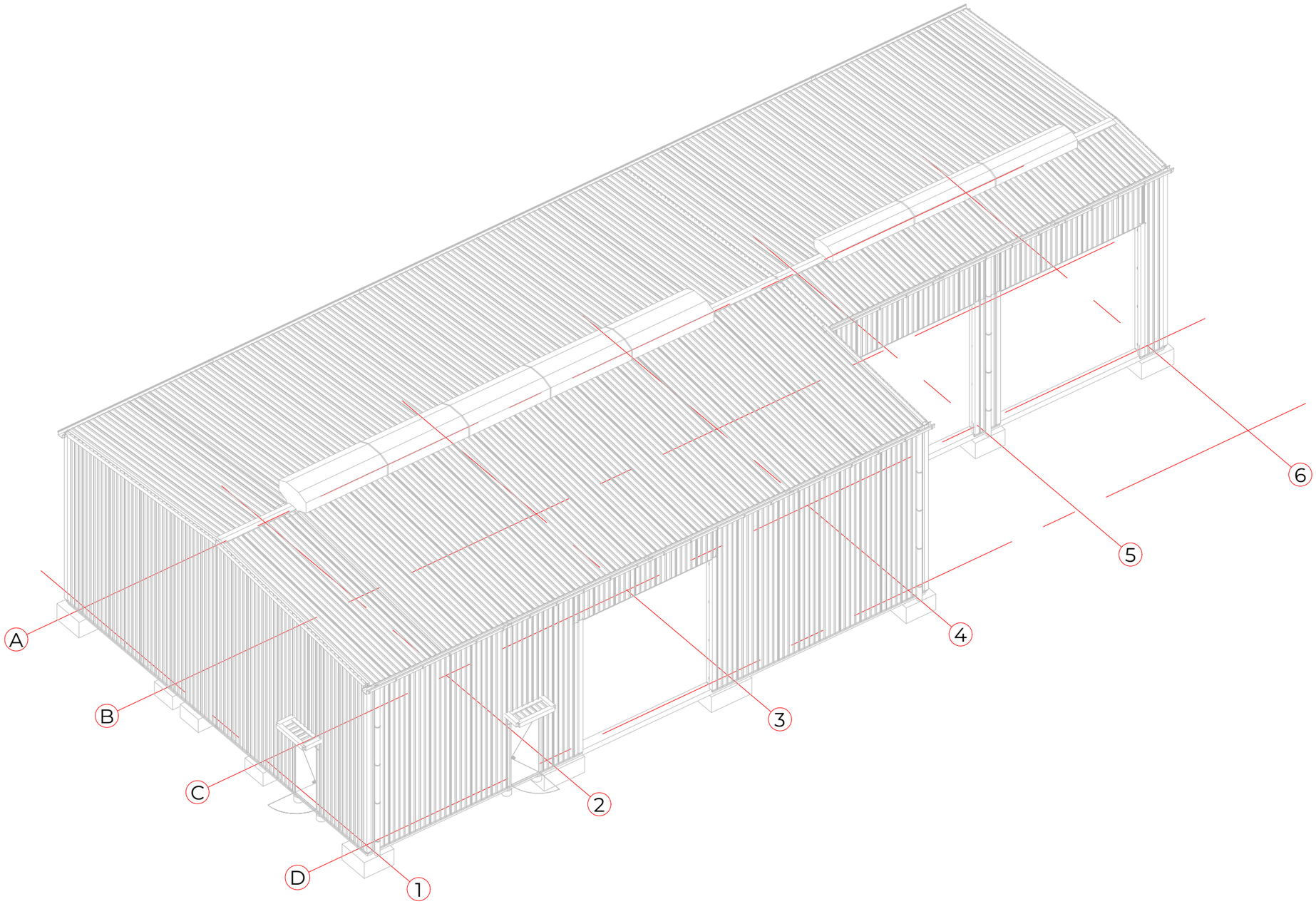
Revisions;

B	Rigging revised	1.5.26	RP		
A	Issued for review	28.4.26	RP		
Rev	**Description**	**Date**	**Prepared**	**Checked**	**Approved**

		Name	**Signature**	**Date**
For PCS;	Study created by	Russell Parker		28.4.26
For BROLGA;	Chkd / Appr. by			
For Client	Chkd / Appr. by			
3rd Party Reviewer	Chkd / Appr. by			

NOTE; Ground bearing pressures, if provided in this lift study, are gained from manufacturers software. They represent the maximum pressures for the crane in a static condition. It is recommended that a minimum dynamic factor of 1.1 to 1.2 is considered when assessing the suitability of any crane supporting surface or structure. This is for lifts carried out at dead slow speeds.

Disclaimer; This lift study is provided at the request of the client named above (second row of signature table) and is based solely on information provided by them or other persons as directed by them. Prime Crane Services does not take any responsibility for the use of this document in relation to any rigging, lifting, crane or transport activities. It is the named client's responsibility to ensure all personnel involved in any activity related to this document are competent, suitably trained and legally certified and/or licensed to perform those activities. It is the named client's responsibility to ensure the activities are carried out in suitable weather conditions, and to verify that any area where related activities are carried out are suitable for the planned activities and can safely withstand any pressures exerted to the ground or supporting surface or structure/s by any equipment described in, or related to, this study.



REV	DESCRIPTION	DESIGNED	APPROVED	DATE
1	ISSUED FOR CONSTRUCTION	NV	SL	27/02/2026
0	ISSUED FOR CONSTRUCTION	AM	NV	07/11/2025
A	PRELIMINARY	AM	NV	3/9/2025

IBERDROLA AUSTRALIA

beon Energy Solutions

ASSET: BROADSOUND ENERGY PARK

TITLE: COMMON ASSETS
EQUIPMENT SHED & WORKSHOP
COVER PAGE

DRAWN	-	CHECKED	-
DESIGNED	-	APPROVED	-
SCALE	-	SIZE	–

SHEET: 11 OF 15

DRAWING NO.: BEPC1-C-DWG-STR-2238

REV.: 1

TOTAL LIFTED WEIGHT CALCULATIONS
(ALL WEIGHTS IN KILOGRAMS)

CRANE COMPONENTS - DEMAG AC 100

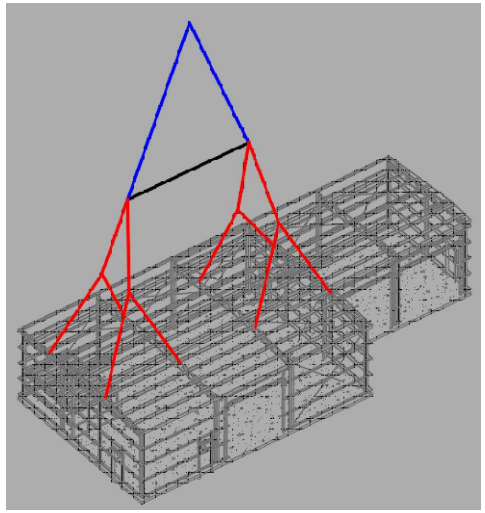
MAIN HOOK	THREE SHEAVE SWL 50t						700
MAIN ROPE	2.2	kg/m	20	m HEIGHT	4	FALLS	176
AUX. HOOK	NOT FITTED						0
AUX. ROPE	0	kg/m	0	m HEIGHT	0	FALLS	0
AUX. JIB							0
SUB TOTAL - CRANE COMPONENTS							876

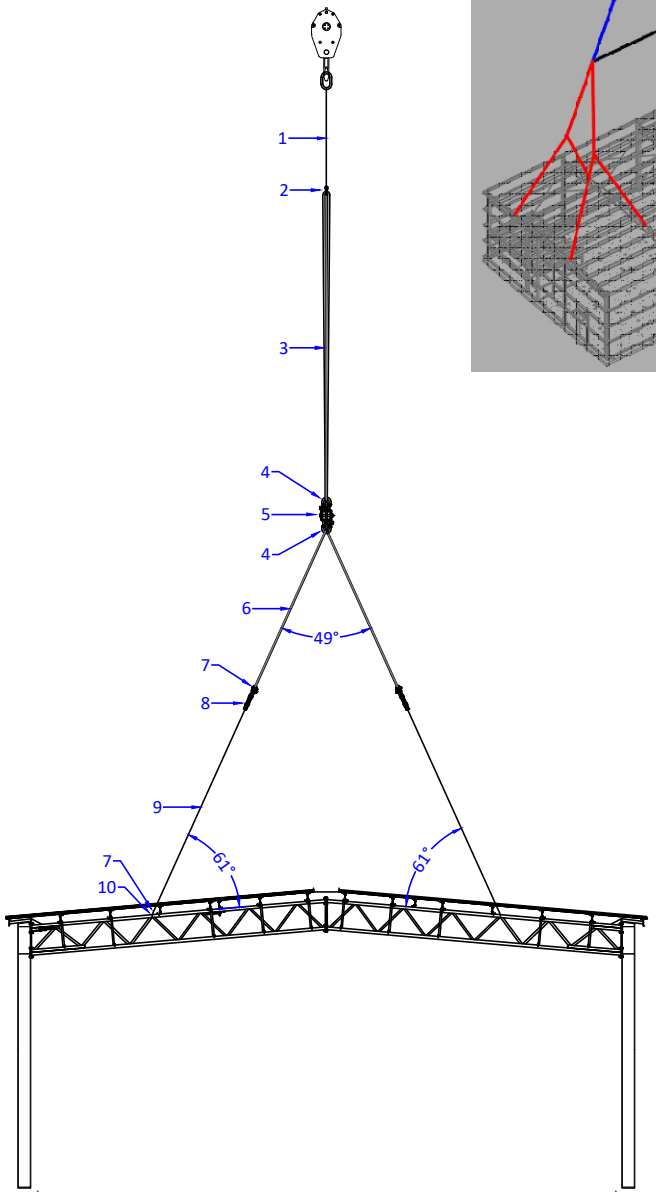
RIGGING COMPONENTS

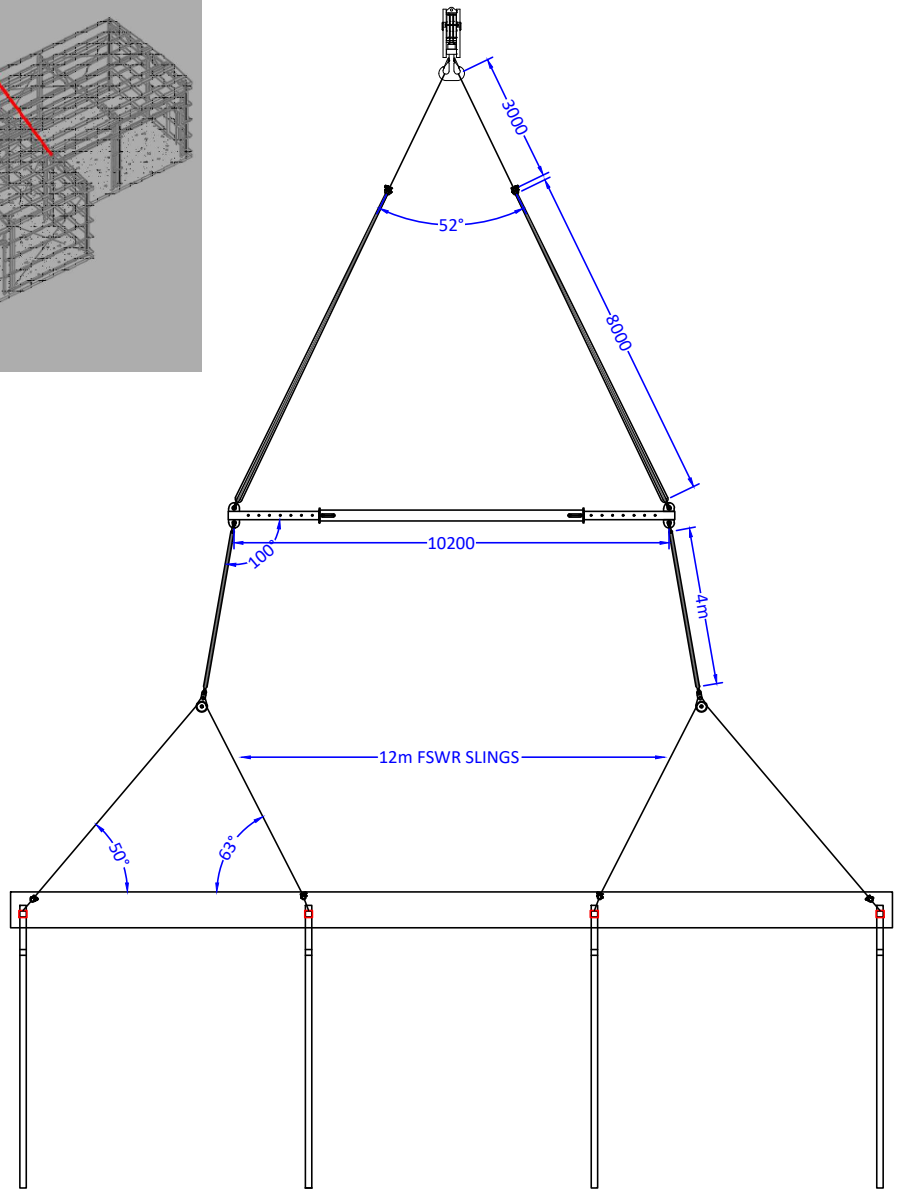
ITEM	DESCRIPTION	WEIGHT	QTY	MASS
1	16mm G100 SINGLE LEG CHAINS SWL 17.3t AS A PAIR	56	2	112
2	SHACKLES - 12t (STD)	5	2	10
3	8m 10t SYNTHETIC SLINGS	18	2	36
4	SHACKLES - 25t (STD)	14	4	56
5	SPREADER BAR SWL 30t	490	1	490
6	4m 8t SYNTHETIC SLINGS	8	4	32
7	SHACKLES - 8.5t	3	8	24
9	EQUALISING SHEAVES SWL 8t	20	4	80
10	20mm G1770 FSWR SLINGS SWL 8.4t OVER SHEAVES	25	4	100
11	13mm G100 SINGLE LEG CHAINS SWL 5t REEVED	10	8	80
SUB TOTAL - RIGGING COMPONENTS				1020
LOAD ; ROOF - INCLUDING LEGS				10000
TOTAL LIFTED WEIGHT				**11896**

RIGGING NOTES;

1. "G80" DENOTES GRADE 80 CHAINS
2. "G100" DENOTES GRADE 100 CHAINS
3. FSWR SLINGS - (E) DENOTES ENDLESS GROMMET TYPE
4. FSWR SLINGS - (S) DENOTES SINGLE PART SOFT EYE TYPE
5. SHACKLES - (WB) DENOTES WIDE BODY SLING SAVER TYPE
6. SHACKLES - (STD) DENOTES STANDARD SAFETY PIN BOW TYPE
7. SLING LENGTHS SHOWN ARE THE MINIMUM REQUIRED. LONGER IS OK EXCEPT IF SPECIFICALLY NOTED.
8. SLINGS MUST ALWAYS BE AT LEAST 60° FROM THE HORIZONTAL







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FOR;

CARROLL CONSTRUCT
BROADSOUND ENERGY PARK
LIFT ROOF MODULES

RIGGING DETAILS

DRAWN	RP	28.4.26
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
B	1.5.26	RIGGING REVISED		
A	28.4.26	ISSUED FOR REVIEW		

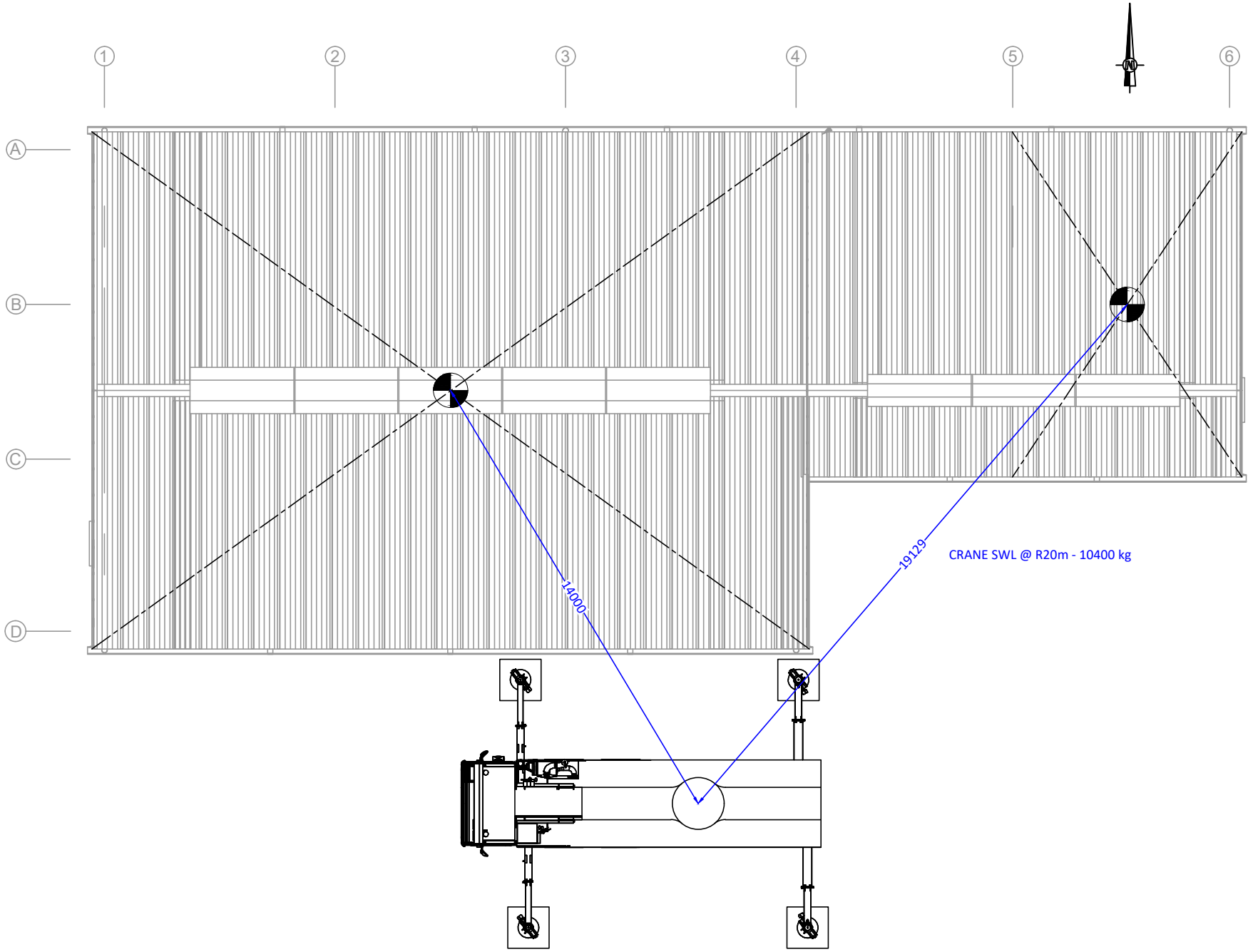
DRAWING No. PCS-BC26-013 REV B

CRANE DETAILS - SINGLE CRANE LIFT		
MAKE	DEMAG	
MODEL	AC100-4	
CRANE MRC	100	t
CONFIGURATION	HA	
LMI CODE	29	
COUNTERWEIGHT	26.1	t
OUTRIGGERS	FULL	
MAIN BOOM LENGTH	38	m
MAIN BOOM CONFIG.	45,90,90,45	%
JIB TYPE / OFFSET	NOT FITTED	°
JIB LENGTH	-	m
MAIN / AUX. HOOK?	MAIN	
MAX SWL THIS CONFIG.	23.2	t
OEM CHART WIND SPEED	9	m/sec

LOAD DETAILS		
LOAD	10000	kgs
CRANE COMPONENTS	876	kgs
RIGGING	1020	kgs
TOTAL LIFT WEIGHT	***11896***	kgs

LIFT DETAILS		
MAXIMUM LIFT RADIUS	14	m
SWL AT MAX. RADIUS	15800	kgs
UTILISATION	***75.3***	%
SPARE CAPACITY	3904	kgs

REEVING CHECK		
LINE PULL	6800	kgs
No. OF PARTS	4	
FACTORED LINE PULL	26600	kgs
LOAD TO HOOK	11896	kgs
REEVING UTILISATION	***44.7***	%



LIFTING NOTES - GENERAL;

1. BOOM CONFIGURATION SHOWN IN DRAWING IS GENERIC ONLY
2. CHECK OEM CHARTS FOR CORRECT BOOM CONFIGURATION
3. THE AREA WHERE THE CRANE IS POSITIONED MUST BE CAPABLE OF SUPPORTING THE LOADS IMPOSED BY THE CRANE AT ANY POINT OF THE LIFTING OPERATION
4. CHECK FOR UNDERGROUND OR OVERHEAD HAZARDS
5. EXCLUSION ZONE TO BE ESTABLISHED
6. TAG LINES MUST BE USED WHERE PRACTICAL
7. PERFORM RADIO CHECKS BEFORE LIFTING
8. DO NOT LIFT UNTIL ALL REQUIRED PERMITS ARE IN PLACE

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LIFT ROOF MODULES

CRANE DETAILS

DRAWN	RP	28.4.26
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
B	1.5.26	RIGGING REVISED		
A	28.4.26	ISSUED FOR REVIEW		

DRAWING No. PCS-BC26-014 REV B

CRANE DETAILS - SINGLE CRANE LIFT		
MAKE	DEMAG	
MODEL	AC100-4	
CRANE MRC	100	t
CONFIGURATION	HA	
LMI CODE	29	
COUNTERWEIGHT	26.1	t
OUTRIGGERS	FULL	
MAIN BOOM LENGTH	38	m
MAIN BOOM CONFIG.	45,90,90,45	%
JIB TYPE / OFFSET	NOT FITTED	°
JIB LENGTH	-	m
MAIN / AUX. HOOK?	MAIN	
MAX SWL THIS CONFIG.	23.2	t
MAX ALLOWABLE WIND SPEED	9	m/sec

LOAD DETAILS		
LOAD	10000	kgs
CRANE COMPONENTS	876	kgs
RIGGING	1020	kgs
TOTAL LIFT WEIGHT	***11896***	kgs

LIFT DETAILS		
MAXIMUM LIFT RADIUS	14	m
SWL AT MAX. RADIUS	15800	kgs
UTILISATION	***75.3***	%
SPARE CAPACITY	3904	kgs

REEVING CHECK		
LINE PULL	6800	kgs
No. OF PARTS	4	
FACTORED LINE PULL	26600	kgs
LOAD TO HOOK	11896	kgs
REEVING UTILISATION	***44.7***	%

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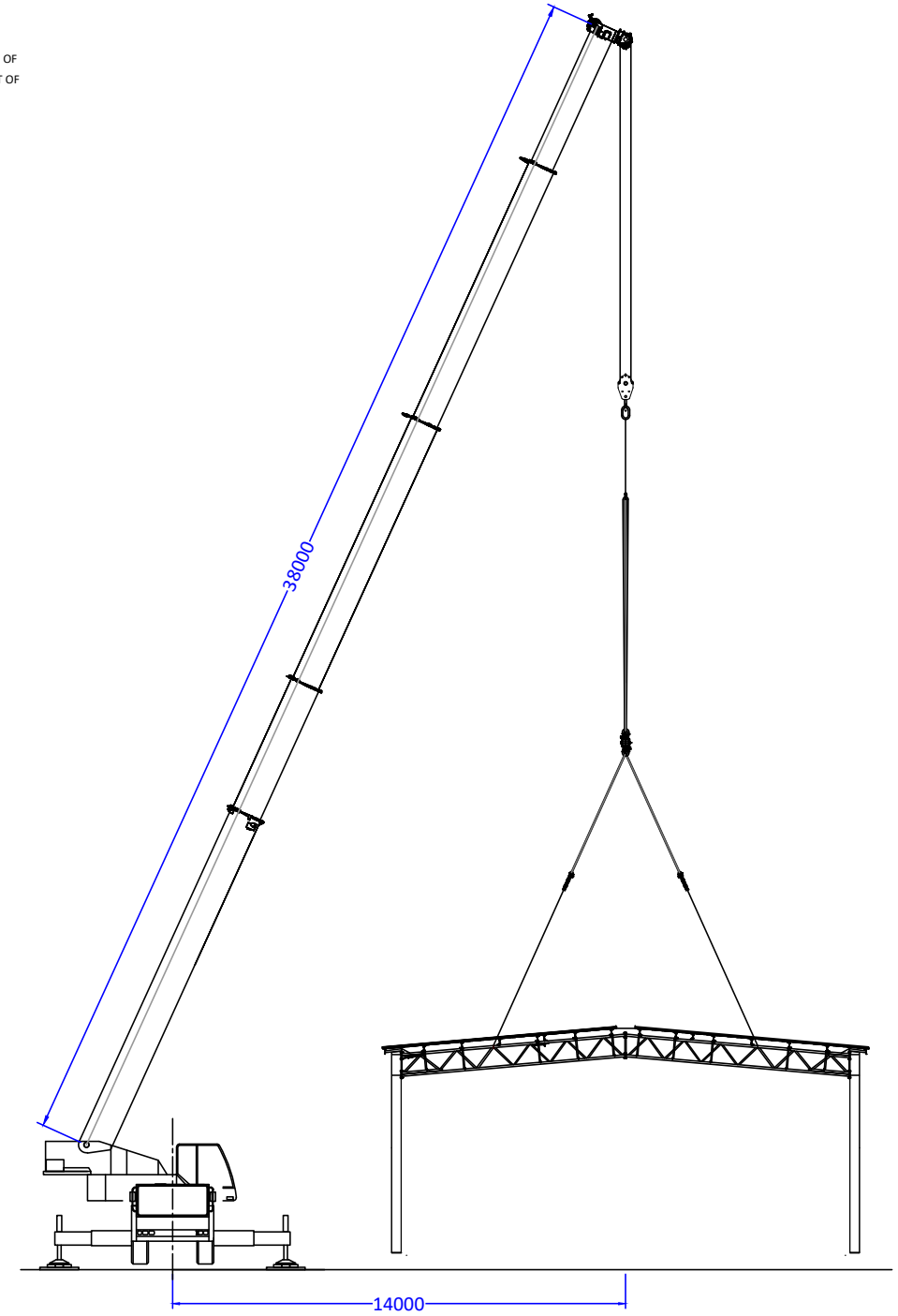

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CRANE DETAILS

DRAWN	RP	28.4.26
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
B	1.5.26	RIGGING REVISED		
A	28.4.26	ISSUED FOR REVIEW		

DRAWING No. PCS-BC26-015 REV B

TOTAL LIFTED WEIGHT CALCULATIONS
(ALL WEIGHTS IN KILOGRAMS)

CRANE COMPONENTS - DEMAG AC 100

MAIN HOOK	THREE SHEAVE SWL 50t						700
MAIN ROPE	2.2	kg/m	20	m HEIGHT	4	FALLS	176
AUX. HOOK	NOT FITTED						0
AUX. ROPE	0	kg/m	0	m HEIGHT	0	FALLS	0
AUX. JIB							0
SUB TOTAL - CRANE COMPONENTS							876

RIGGING COMPONENTS

ITEM	DESCRIPTION	WEIGHT	QTY	MASS
1	10mm G100 TWO LEG CHAINS SWL 6.9t EACH SET	43	2	86
2	13mm G100 SINGLE LEG CHAINS SWL 5t REEVED	10	4	40
SUB TOTAL - RIGGING COMPONENTS				126
LOAD ; ROOF - INCLUDING LEGS				3000
TOTAL LIFTED WEIGHT				**4002**

RIGGING NOTES;

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2. "G100" DENOTES GRADE 100 CHAINS
3. FSWR SLINGS - (E) DENOTES ENDLESS GROMMET TYPE
4. FSWR SLINGS - (S) DENOTES SINGLE PART SOFT EYE TYPE
5. SHACKLES - (WB) DENOTES WIDE BODY SLING SAVER TYPE
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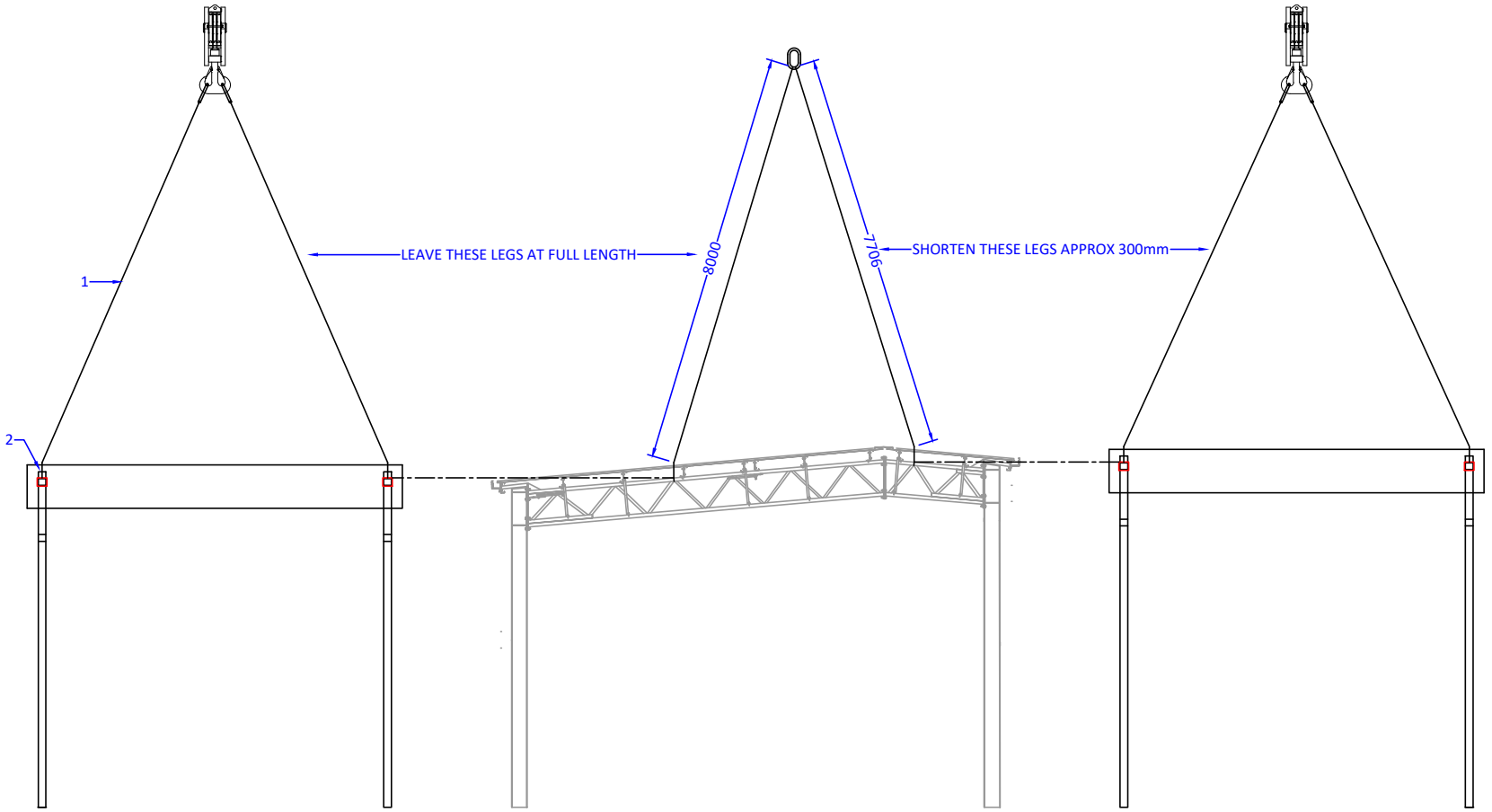

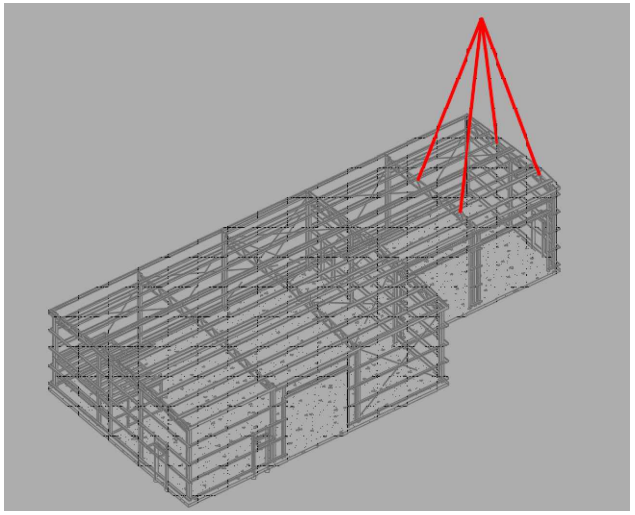

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REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
A	28.4.26	ISSUED FOR REVIEW		

DRAWING No. PCS-BC26-016

REV A

CRANE DETAILS - SINGLE CRANE LIFT		
MAKE	DEMAG	
MODEL	AC100-4	
CRANE MRC	100	t
CONFIGURATION	HA	
LMI CODE	29	
COUNTERWEIGHT	26.1	t
OUTRIGGERS	FULL	
MAIN BOOM LENGTH	38	m
MAIN BOOM CONFIG.	45,90,90,45	%
JIB TYPE / OFFSET	NOT FITTED	°
JIB LENGTH	-	m
MAIN / AUX. HOOK?	MAIN	
MAX SWL THIS CONFIG.	23.2	t
MAX. ALLOWABLE WIND SPEED	9	m/sec

LOAD DETAILS		
LOAD	3000	kgs
CRANE COMPONENTS	876	kgs
RIGGING	126	kgs
TOTAL LIFT WEIGHT	***4002***	kgs

LIFT DETAILS		
MAXIMUM LIFT RADIUS	20	m
SWL AT MAX. RADIUS	10400	kgs
UTILISATION	***38.5***	%
SPARE CAPACITY	6398	kgs

REEVING CHECK		
LINE PULL	6800	kgs
No. OF PARTS	4	
FACTORED LINE PULL	26600	kgs
LOAD TO HOOK	4002	kgs
REEVING UTILISATION	***15.0***	%

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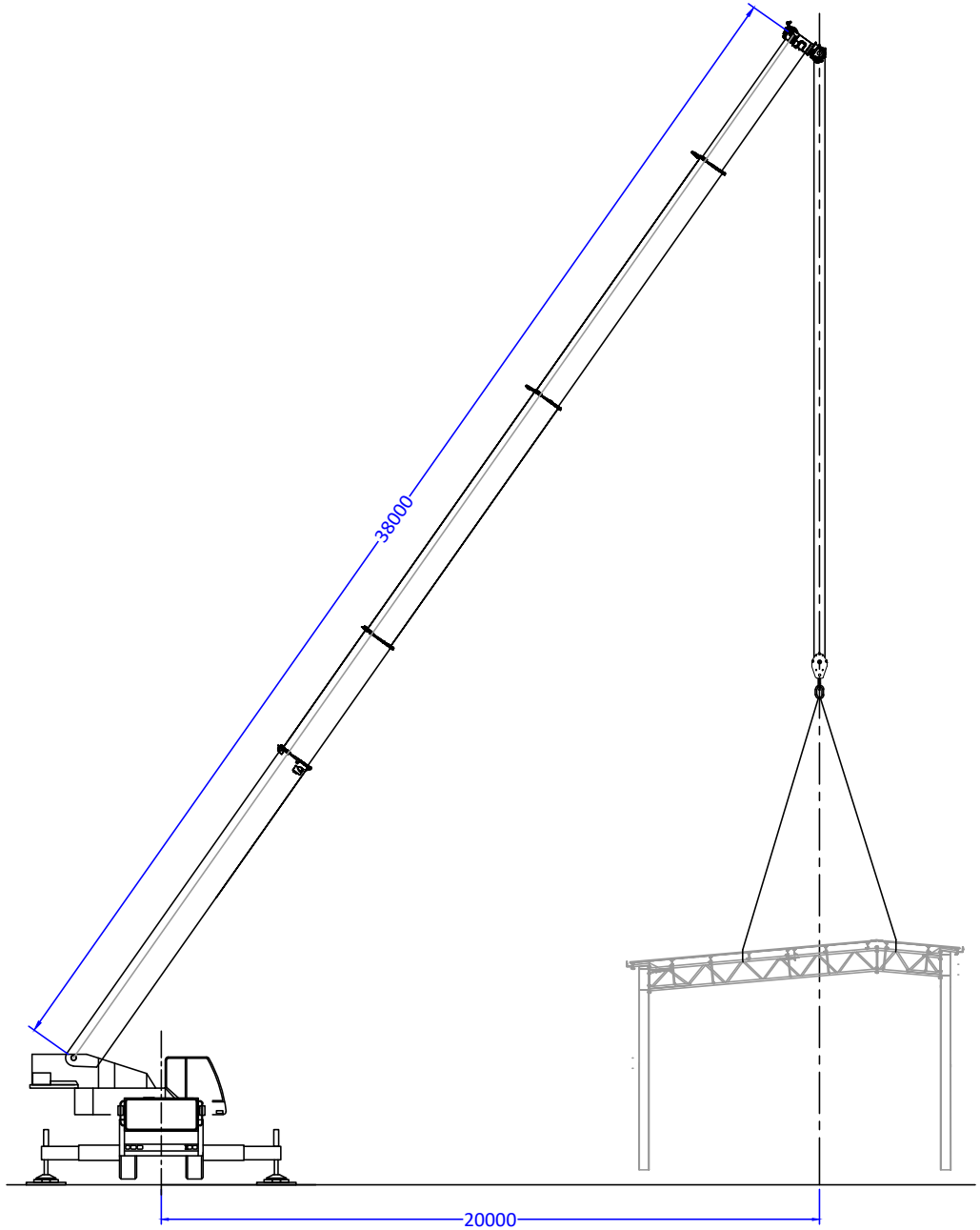

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CRANE DETAILS

DRAWN	RP	1.5.26
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
A	1.5.26	ISSUED FOR REVIEW		

DRAWING No. PCS-BC26-017

REV A

AC100/4

Capacities on Main Boom

HA

Capacity (t) = Load + Hook Block

Slew Range	360 °
Outrigger Length	8,1 m
Outrigger width	7,2 m
Counterweight	26,1 t

Main Boom Length (m)	33,3	33,3	35,3	37,5	38	38	37,5	40,5
Radius (m)								
5	29,1	27,6						
6	26,7	25,4	21,1					
7	24,7	23,6	19,4	25	23,7	23,2	21,3	18,2
8	22,7	21,8	17,9	23,5	22,3	21,9	19,9	17
9	21,1	20,5	16,5	22	21	20,7	18,6	15,9
10	19,7	19,2	15,6	20,5	19,7	19,5	17,3	14,9
12	16,9	16,8	13,7	18,3	17,8	17,6	15,4	13,2
14	15,1	15	12,1	16,1	15,8	15,8	13,5	11,8
16	13,5	13,5	11	14,3	14,2	14,4	12,2	10,4
18	12	12	9,9	11,8	12,3	12,7	11,1	9,6
20	10,8	11	8,9	9,9	10,4	10,8	10	8,7
22	9,3	9,7	8,3	8,5	8,9	9,3	9	7,9
24	8,1	8,5	7,6	7,3	7,7	8,1	8,4	7,2
26	7,1	7,5	7	6,3	6,7	7,1	7,4	6,7
28	6,3	6,7	6,6	5,4	5,9	6,3	6,5	6,2
30			6,1	4,7	5,1	5,6	5,8	5,8
32				4,1	4,5	4,9	5,2	5,3
34					4	4,4		4,7
36								4,2
single hook block	5	5	4	4	4	4	4	3
LK-Code	25	26	27	28	29	30	31	32
Tele 1 (%)	0	0	0	90	45	45	0	0
Tele 2 (%)	90	45	45	90	90	45	90	100
Tele 3 (%)	90	90	100	45	90	90	90	100
Tele 4 (%)	45	90	100	45	45	90	90	100