

BUCKNER

HEAVYLIFT CRANES

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PROJECT:
LR11000 SL8DF2B 120+12

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerHeavyLift.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerHeavyLift.com

DRAWING NOTES:
Title Page

FILE: C:\Users\Dan Ives\OneDrive – Buckner HeavyLift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 – SL8DF2B 120m + 12m
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Pos. Item	Description		Page	
1	967746908	ROD CPL.	6M	
2	967743808	ROD CPL.	12 M	
5	967846208	PULL ROD	3.3M	
6	917368808	MEASURING PLATE	3000 KN	34
7	967846608	PULL TAB WITH SIGN	0.4M	
8	967845508	DRAW SHACKLE	0.7M	
9	967897608	PULL ROD	3.5M	
11	968026108	DRAWBAR PRE-ASS	6.0M	
12	968026208	PULL ROD	3.9M	
13	967704008	ROD CPL.	12 M	
15	968026008	PULL ROD	5.765M	
16	968242208	PULL ROD	6.050 M	
18	968190108	PULL ROD	2.5M	
19	968190208	PULL ROD	6.005M	
86	96038420	RODS / PULL RODS	7.35M	
87	96035533	BRACKET CPL.		
88	96035475	ROTATING SHAFT		
89	96037814	GUY ROPE CPL.	66X8.5M	
90	96037810	GUY ROPE CPL.	66X18M	
1000	98045570	RODS/ PULL RODS LR 11000	SL8DF2B	

Pos. Item	Description		Page	
76	919219108	MEASURING PLATE	1250 KN	19
77	96037041	DRAW SHACKLE	0.6M	
78	96037042	DRAW SHACKLE	0.230M	
79	97122954	FIBRE TENSIONING ROPE	66X13.1M	
80	96035525	DRAW SHACKLE		
81	96037332	GUY ROPE CPL.	66X2.725M	
82	96037007	GUY ROPE CPL.	66X5.45M	
83	96037255	GUY ROPE CPL.	66X10.9M	
84	96039026	DRAW SHACKLE	0.930M	
85	96039027	DRAW SHACKLE	1.630M	
1000	98043732	RODS/ PULL RODS LR 11000	F2	

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Rod Plans

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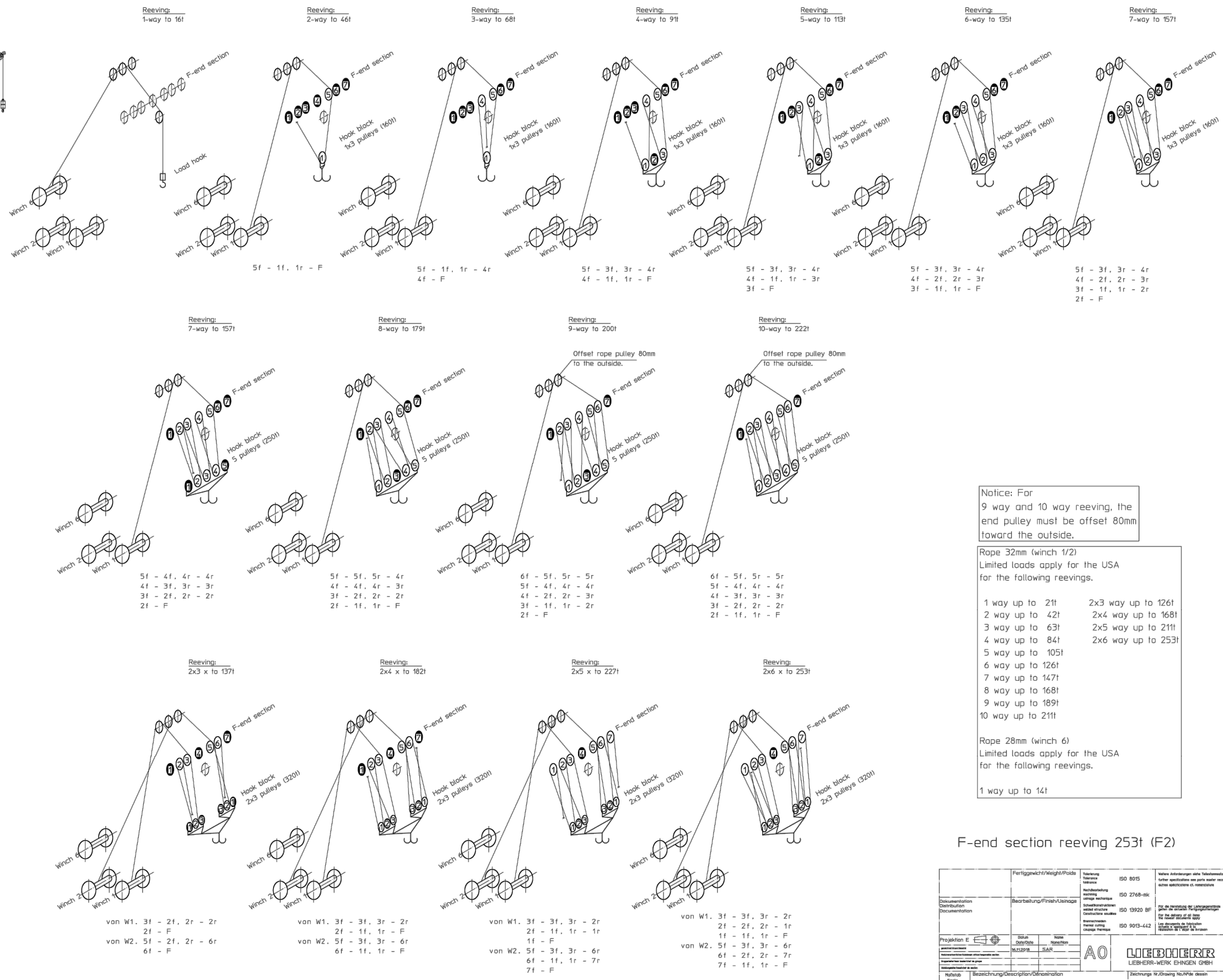
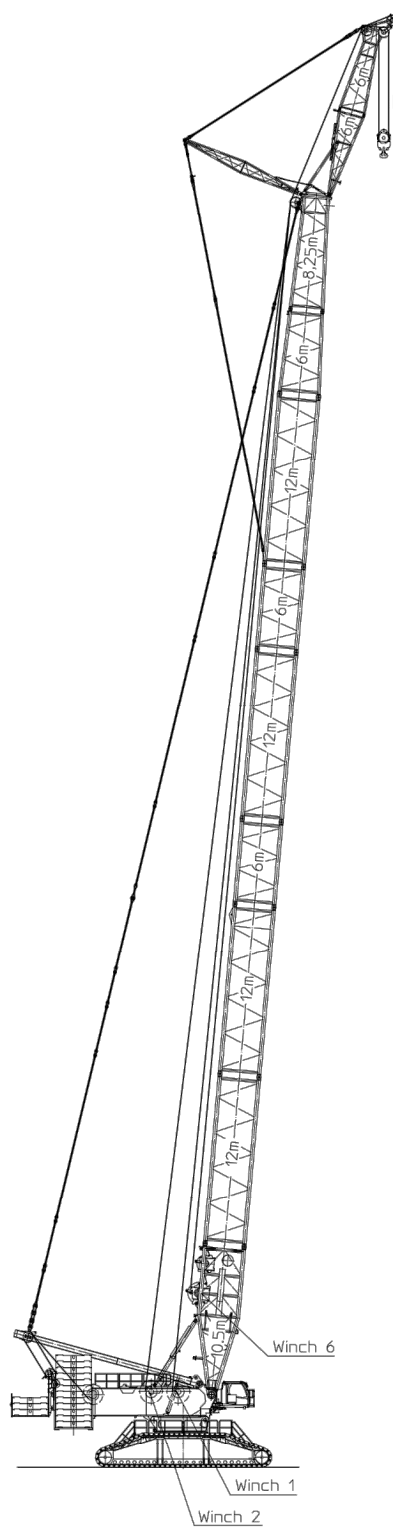
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BUCKNER
HEAVYLIFT CRANES

18.6.2021
LIEBHERR 098260 (LR 11000)
RODS/ PULL RODS LR 11000 SL8DF2B
96042304
Page: 63

14.5.2019
LIEBHERR LR 11000 (098251)
RODS/ PULL RODS LR 11000 F2
96039268
Page: 11



F = Fixpoint = Festpunkt
 f = front = vorne
 r = rear = hinten

Notice: For 9 way and 10 way reeving, the end pulley must be offset 80mm toward the outside.

Rope 32mm (winch 1/2)
 Limited loads apply for the USA for the following reeving.

- 1 way up to 21t
- 2 way up to 42t
- 3 way up to 63t
- 4 way up to 84t
- 5 way up to 105t
- 6 way up to 126t
- 7 way up to 147t
- 8 way up to 168t
- 9 way up to 189t
- 10 way up to 210t

Rope 28mm (winch 6)
 Limited loads apply for the USA for the following reeving.

- 1 way up to 14t
- 2x3 way up to 126t
- 2x4 way up to 168t
- 2x5 way up to 210t
- 2x6 way up to 252t

F-end section reeving 253t (F2)

Fertiggewicht/Weight/Poids		Technische Zeichnung		ISO 8015	
Bearbeitung/Finish/Usinage		Nachherstellung		ISO 2768-MK	
Projektion E		Anzahl der Blätter		ISO 15924	
Scale		Drawing No.		1668-722.00.0014-000	
1:250		REEVING PLAN		9804 3912	
		F2-END SECTION			

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 Dani@BucknerHeavylift.com
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DRAWING NOTES:
 Reeving Plan

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Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	4.5 t	9920 lb
4 auxiliary weights	6.5 t	14330 lb
6 auxiliary weights	8.5 t ¹⁾	18740 lb ¹⁾

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.5 Hook block 250 DM (SWL 250 t (551250 lb))

Load	Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
242.9 t	5	11	3.0 t	6620 lb

Hook block 250 DM

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	5.0 t	11030 lb
4 auxiliary weights	7.0 t	15440 lb
6 auxiliary weights	9.0 t	19850 lb
8 auxiliary weights	11.0 t ¹⁾	24260 lb ¹⁾

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.6 Double hook block 320 / 160 DM (SWL 160 t (352800 lb))

Load	Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
157.7 t	3	7	3.4 t	7500 lb

Double hook block 320 / 160 DM

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	5.4 t	11910 lb
4 auxiliary weights	7.4 t	16320 lb
6 auxiliary weights	9.4 t	20730 lb
8 auxiliary weights	11.4 t ¹⁾	25140 lb ¹⁾

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.7 Double hook block 650 / 325 DMZ (SWL 325 t (716630 lb))

There are two versions of this double hook block. Both versions differ in shape and net weight.

LWE/423501-18-02/en

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DRAWING NOTES:
Hook Block

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SL8DF2B – operation, turntable ballast 250t / central ballast 130t
SL8F2: F-connector head

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On crawlers 9.6m x 9.2m x 2.0m
Ground slope: maximum 0.3°
Without mechanical auxiliary support

System: S 3228.40/25/20/15
D 2825.25/20
F 2318.10

Wind speeds:

maximum 9.0m/s: for all boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

SL8DF2B DR 12m DBR 12m			Permissible weight of the hook block [t] on the F2-boom											
			For derrick ballast [t] for derrick radius (DR) 12m / derrick ballast radius (DBR) 12m											
			0	50	100	150	200	250	300	350	400	450		
Main boom length [m]	SL8-102	F2 [m]	12	-	-	5.3	12	18	•	•	•	•	•	
			15	-	-	4	10	17	•	•	•	•	•	
			18	-	-	3.3	9.8	16	•	•	•	•	•	
			21	-	-	2.2	8.4	14	•	•	•	•	•	
			24	-	-	-	7.6	13	19	•	•	•	•	
			27	-	-	-	6.3	12	18	•	•	•	•	
			30	-	-	-	5.9	11	17	•	•	•	•	
			33	-	-	-	4.6	10	16	•	•	•	•	
			36	-	-	-	3.9	9.4	15	•	•	•	•	
			39	-	-	-	2.7	8.1	13	19	•	•	•	
Main boom length [m]	SL8-108	F2 [m]	12	-	-	-	5.3	11	18	•	•	•	•	
			15	-	-	-	4.1	10	16	•	•	•	•	
			18	-	-	-	3.4	9.5	15	•	•	•	•	
			21	-	-	-	2.2	8.2	14	•	•	•	•	
			24	-	-	-	-	7.4	13	19	•	•	•	•
			27	-	-	-	-	6.1	11	17	•	•	•	•
			30	-	-	-	-	5.7	11	16	•	•	•	•
			33	-	-	-	-	4.5	9.9	15	•	•	•	•
			36	-	-	-	-	3.7	9	14	19	•	•	•
			39	-	-	-	-	2.5	7.7	13	18	•	•	•
Main boom length [m]	SL8-114	F2 [m]	12	-	-	-	-	4.2	10	16	•	•	•	•
			15	-	-	-	-	3	9	14	•	•	•	•
			18	-	-	-	-	2.4	8.2	14	19	•	•	•
			21	-	-	-	-	-	6.9	12	18	•	•	•
			24	-	-	-	-	-	6.1	11	17	•	•	•
			27	-	-	-	-	-	4.9	10	15	•	•	•
			30	-	-	-	-	-	4.5	9.9	15	•	•	•
			33	-	-	-	-	-	3.3	8.6	13	19	•	•
			36	-	-	-	-	-	2.6	7.7	12	17	•	•
			39	-	-	-	-	-	-	6.5	11	16	19	•

- Hook block weight up to 20t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

SL8DF2B – operation, turntable ballast 250t / central ballast 130t
SL8F2: F-connector head

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Page: 2 of 6

On crawlers 9.6m x 9.2m x 2.0m
Ground slope: maximum 0.3°
Without mechanical auxiliary support

System: S 3228.40/25/20/15
D 2825.25/20
F 2318.10

Wind speeds:

maximum 9.0m/s: for all boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

SL8DF2B DR 12m DBR 12m			Permissible weight of the hook block [t] on the F2-boom										
			For derrick ballast [t] for derrick radius (DR) 12m / derrick ballast radius (DBR) 12m										
			0	50	100	150	200	250	300	350	400	450	
Main boom length [m]	SL8-120	F2 [m]	12	-	-	-	-	-	3.7	9.5	15	•	•
			15	-	-	-	-	-	2.5	8.2	13	19	•
			18	-	-	-	-	-	-	7.4	13	18	•
			21	-	-	-	-	-	-	6.2	11	17	•
			24	-	-	-	-	-	-	5.4	10	16	19
			27	-	-	-	-	-	-	4.2	9.4	14	17
			30	-	-	-	-	-	-	3.8	9	14	17
			33	-	-	-	-	-	-	2.7	7.7	12	15
			36	-	-	-	-	-	-	-	6.8	11	14
			39	-	-	-	-	-	-	-	5.6	10	13
Main boom length [m]	SL8-126	F2 [m]	12	-	-	-	-	-	-	7.7	12	16	
			15	-	-	-	-	-	-	6.5	11	15	
			18	-	-	-	-	-	-	5.7	10	14	
			21	-	-	-	-	-	-	4.5	9.6	13	
			24	-	-	-	-	-	-	3.8	8.7	12	
			27	-	-	-	-	-	-	2.6	7.4	10	
			30	-	-	-	-	-	-	2.3	7.1	10	
			33	-	-	-	-	-	-	-	5.9	8.9	
			36	-	-	-	-	-	-	-	5.1	8	
			39	-	-	-	-	-	-	-	3.9	6.9	
Main boom length [m]	SL8-132	F2 [m]	12	-	-	-	-	-	-	-	6	9.4	
			15	-	-	-	-	-	-	-	4.7	8.2	
			18	-	-	-	-	-	-	-	4.2	7.6	
			21	-	-	-	-	-	-	-	3	6.3	
			24	-	-	-	-	-	-	-	2.3	5.4	
			27	-	-	-	-	-	-	-	-	4.3	
			30	-	-	-	-	-	-	-	-	4.1	
			33	-	-	-	-	-	-	-	-	2.9	
			36	-	-	-	-	-	-	-	-	2	
			39	-	-	-	-	-	-	-	-	-	

- Hook block weight up to 20t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

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LR11000 SL8DF2B 120+12

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LWE/23550-16-02/en

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SL8DF2B – operation, turntable ballast 250t / central ballast 130t
SL8F2: F-connector head

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On crawlers 9.6m x 9.2m x 2.0m
Ground slope: maximum 0.3°
Without mechanical auxiliary support

System: S 3228.40/25/20/15
D 2825.25/20
F 2318.10

Wind speeds:

maximum 9.0m/s: for all boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

SL8DF2B DR 15m DBR 15m		Permissible weight of the hook block [t] on the F2-boom											
		For derrick ballast [t] for derrick radius (DR) 15m / derrick ballast radius (DBR) 15m											
		0	50	100	150	200	250	300	350	400	450		
Main boom length [m]	SL8-102	F2 [m]	12	-	-	8.6	16	•	•	•	•	•	•
			15	-	-	7.2	15	•	•	•	•	•	•
			18	-	-	6.5	14	•	•	•	•	•	•
			21	-	-	5.2	12	•	•	•	•	•	•
			24	-	-	4.5	11	18	•	•	•	•	•
			27	-	-	3.3	10	17	•	•	•	•	•
			30	-	-	2.9	9.8	16	•	•	•	•	•
			33	-	-	-	8.5	15	•	•	•	•	•
			36	-	-	-	7.6	14	•	•	•	•	•
			39	-	-	-	6.3	12	19	•	•	•	•
Main boom length [m]	SL8-108	F2 [m]	12	-	-	-	9.6	17	•	•	•	•	
			15	-	-	-	8.3	15	•	•	•	•	
			18	-	-	-	7.5	14	•	•	•	•	
			21	-	-	-	6.2	13	•	•	•	•	
			24	-	-	-	5.4	12	19	•	•	•	
			27	-	-	-	4.2	11	17	•	•	•	
			30	-	-	-	3.8	10	17	•	•	•	
			33	-	-	-	2.7	9.1	15	•	•	•	
			36	-	-	-	-	8.2	14	•	•	•	
			39	-	-	-	-	7	13	19	•	•	
Main boom length [m]	SL8-114	F2 [m]	12	-	-	-	-	9.4	16	•	•	•	
			15	-	-	-	-	8.1	15	•	•	•	
			18	-	-	-	-	7.3	14	•	•	•	
			21	-	-	-	-	6.1	12	19	•	•	
			24	-	-	-	-	5.3	11	18	•	•	
			27	-	-	-	-	4.1	10	17	•	•	
			30	-	-	-	-	3.7	10	16	•	•	
			33	-	-	-	-	2.6	8.7	14	•	•	
			36	-	-	-	-	-	7.9	13	19	•	
			39	-	-	-	-	-	6.6	12	18	•	

- Hook block weight up to 20t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

SL8DF2B – operation, turntable ballast 250t / central ballast 130t
SL8F2: F-connector head

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On crawlers 9.6m x 9.2m x 2.0m
Ground slope: maximum 0.3°
Without mechanical auxiliary support

System: S 3228.40/25/20/15
D 2825.25/20
F 2318.10

Wind speeds:

maximum 9.0m/s: for all boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

SL8DF2B DR 15m DBR 15m		Permissible weight of the hook block [t] on the F2-boom											
		For derrick ballast [t] for derrick radius (DR) 15m / derrick ballast radius (DBR) 15m											
		0	50	100	150	200	250	300	350	400	450		
Main boom length [m]	SL8-120	F2 [m]	12	-	-	-	-	2.8	9.7	16	•	•	•
			15	-	-	-	-	-	8.4	15	•	•	•
			18	-	-	-	-	-	7.6	14	•	•	•
			21	-	-	-	-	-	6.4	12	19	•	•
			24	-	-	-	-	-	5.6	11	18	•	•
			27	-	-	-	-	-	4.4	10	16	•	•
			30	-	-	-	-	-	4	10	16	•	•
			33	-	-	-	-	-	2.8	8.8	14	19	19
			36	-	-	-	-	-	2.1	7.9	13	18	18
			39	-	-	-	-	-	-	6.7	12	17	17
Main boom length [m]	SL8-126	F2 [m]	12	-	-	-	-	-	-	8.9	15	•	•
			15	-	-	-	-	-	-	7.6	14	19	•
			18	-	-	-	-	-	-	6.8	13	18	19
			21	-	-	-	-	-	-	5.6	11	17	18
			24	-	-	-	-	-	-	4.9	10	15	17
			27	-	-	-	-	-	-	3.7	9.6	14	15
			30	-	-	-	-	-	-	3.3	9.1	14	15
			33	-	-	-	-	-	-	2.2	7.9	12	13
			36	-	-	-	-	-	-	-	7	11	12
			39	-	-	-	-	-	-	-	5.8	10	11
Main boom length [m]	SL8-132	F2 [m]	12	-	-	-	-	-	-	2.2	8.4	13	15
			15	-	-	-	-	-	-	-	7.2	12	14
			18	-	-	-	-	-	-	-	6.4	11	13
			21	-	-	-	-	-	-	-	5.2	10	11
			24	-	-	-	-	-	-	-	4.5	9.3	10
			27	-	-	-	-	-	-	-	3.3	8.2	10
			30	-	-	-	-	-	-	-	3	7.8	9.2
			33	-	-	-	-	-	-	-	-	6.5	8.1
			36	-	-	-	-	-	-	-	-	5.6	7.3
			39	-	-	-	-	-	-	-	-	4.5	6.1

- Hook block weight up to 20t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

PROJECT:
LR11000 SL8DF2B 120+12

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerHeavyLift.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerHeavyLift.com

DRAWING NOTES:
Erection and Takedown –
DBR 15m

FILE: C:\Users\Dan Ives\OneDrive – Buckner HeavyLift
Cranes\Engineering\Drawings\BHL\Buckner\Build
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SL8DF2B – operation, turntable ballast 250t / central ballast 130t
SL8F2: F-connector head

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On crawlers 9.6m x 9.2m x 2.0m
 Ground slope: maximum 0.3°
 Without mechanical auxiliary support

System: S 3228.40/25/20/15
 D 2825.25/20
 F 2318.10

Wind speeds:
maximum 9.0m/s: for all boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

SL8DF2B DR 18m DBR 18m			Permissible weight of the hook block [t] on the F2-boom										
			For derrick ballast [t] for derrick radius (DR) 18m / derrick ballast radius (DBR) 18m										
			0	50	100	150	200	250	300	350	400	450	
Main boom length [m]	SL8-102	F2 [m]	12	-	2.7	11	•	•	•	•	•	•	•
			15	-	-	10	19	•	•	•	•	•	•
			18	-	-	9.6	18	•	•	•	•	•	•
			21	-	-	8.3	16	•	•	•	•	•	•
			24	-	-	7.4	15	•	•	•	•	•	•
	SL8-108	F2 [m]	27	-	-	6.2	14	•	•	•	•	•	
			30	-	-	5.7	13	•	•	•	•	•	
			33	-	-	4.5	12	•	•	•	•	•	
			36	-	-	3.7	11	18	•	•	•	•	
			39	-	-	2.6	10	17	•	•	•	•	
Main boom length [m]	SL8-108	F2 [m]	12	-	-	5.2	13	•	•	•	•	•	
			15	-	-	3.9	12	•	•	•	•	•	
			18	-	-	3.2	11	19	•	•	•	•	
			21	-	-	2.1	10	18	•	•	•	•	
			24	-	-	-	9.3	17	•	•	•	•	
	SL8-114	F2 [m]	27	-	-	-	8.1	15	•	•	•	•	
			30	-	-	-	7.6	15	•	•	•	•	
			33	-	-	-	6.3	13	•	•	•	•	
			36	-	-	-	5.5	12	•	•	•	•	
			39	-	-	-	4.3	11	18	•	•	•	

- Hook block weight up to 20t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

SL8DF2B – operation, turntable ballast 250t / central ballast 130t
SL8F2: F-connector head

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 Page: 6 of 6

On crawlers 9.6m x 9.2m x 2.0m
 Ground slope: maximum 0.3°
 Without mechanical auxiliary support

System: S 3228.40/25/20/15
 D 2825.25/20
 F 2318.10

Wind speeds:
maximum 9.0m/s: for all boom lengths and wind direction 360°.
maximum 12.8m/s: for boom lengths below 140m and wind direction 360°. With a total boom length above 140m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

SL8DF2B DR 18m DBR 18m			Permissible weight of the hook block [t] on the F2-boom										
			For derrick ballast [t] for derrick radius (DR) 18m / derrick ballast radius (DBR) 18m										
			0	50	100	150	200	250	300	350	400	450	
Main boom length [m]	SL8-120	F2 [m]	12	-	-	-	-	7.8	15	•	•	•	•
			15	-	-	-	-	6.5	14	•	•	•	•
			18	-	-	-	-	5.7	13	•	•	•	•
			21	-	-	-	-	4.6	12	19	•	•	•
			24	-	-	-	-	3.8	11	18	•	•	•
	SL8-126	F2 [m]	27	-	-	-	-	2.7	9.8	16	•	•	•
			30	-	-	-	-	2.3	9.3	16	•	•	•
			33	-	-	-	-	-	8	14	•	•	•
			36	-	-	-	-	-	7.2	13	•	•	•
			39	-	-	-	-	-	5.9	12	18	•	•
Main boom length [m]	SL8-126	F2 [m]	12	-	-	-	-	8	15	•	•	•	
			15	-	-	-	-	6.8	14	•	•	•	
			18	-	-	-	-	6	13	•	•	•	
			21	-	-	-	-	4.9	12	19	•	•	
			24	-	-	-	-	4.1	11	17	19	•	
	SL8-132	F2 [m]	27	-	-	-	-	2.9	9.8	16	18	19	
			30	-	-	-	-	2.6	9.3	15	17	18	
			33	-	-	-	-	-	8	14	16	17	
			36	-	-	-	-	-	7.2	13	15	16	
			39	-	-	-	-	-	6	12	14	14	

- Hook block weight up to 20t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

PROJECT:
 LR11000 SL8DF2B 120+12

LOCATION: -----
 BUCKNER CONTACT: Dan Ives, PE
 Dani@BucknerHeavyLift.com
 LIFT PLAN BY: Dan Ives, PE
 Dani@BucknerHeavyLift.com

DRAWING NOTES:
 Erection and Takedown –
 DBR 18m

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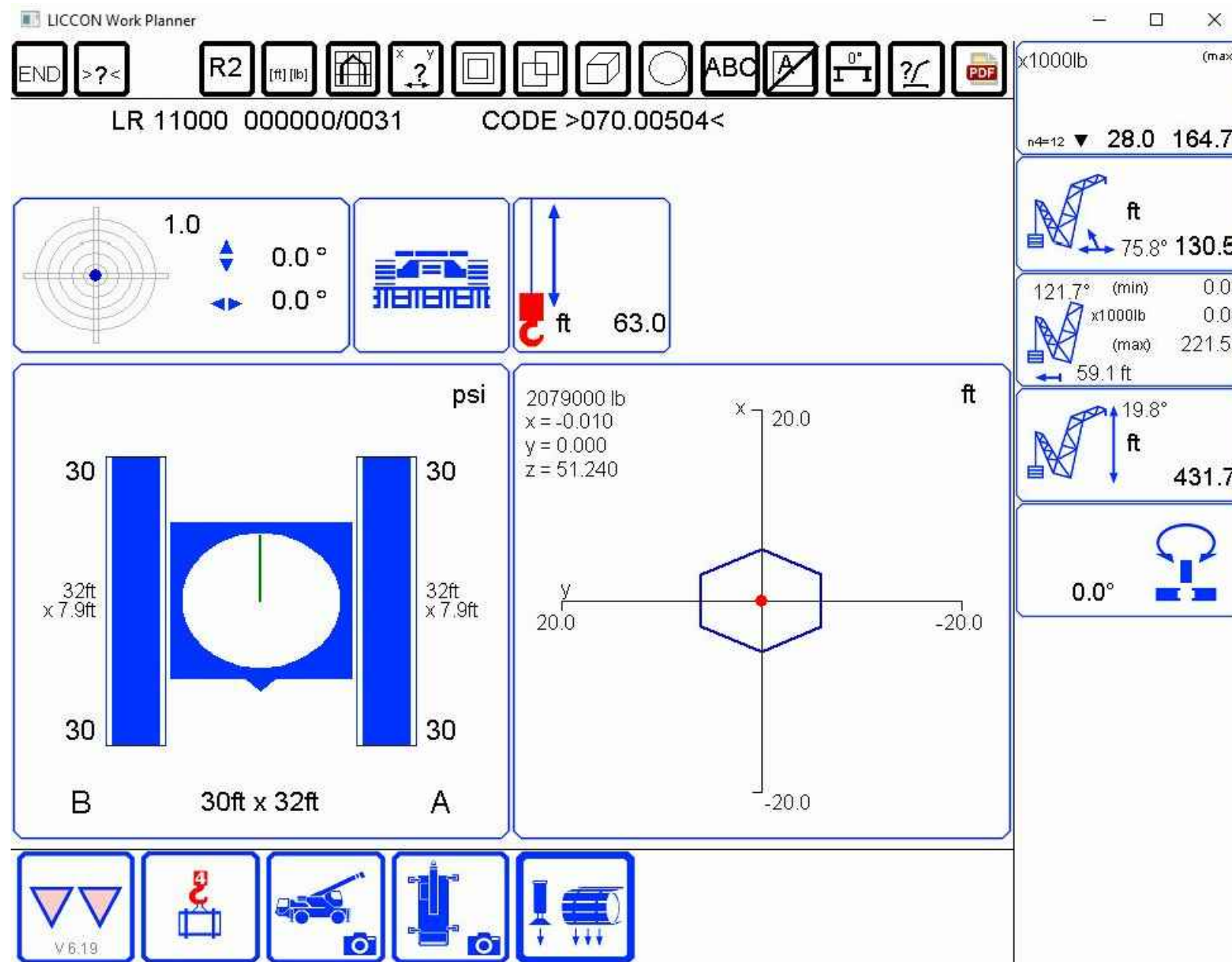
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2.4m Track Pads



NOTE: These track pressures are based on the crane being perfectly balanced and perfectly level. Inclinations during travel will increase the track pressures from what is shown here.

PROJECT:
LR11000 SL8DF2B 120+12

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerHeavylift.com

DRAWING NOTES:
Balanced Boom

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