Form Number	Issue Date 11/27/95	Issue Date 11/27/95 Revision Date 01/01/24		
1 Offit (Valifoct	~ -	40 =-	Form Number	
LLCF-015	Crane L	ift Plan	LLCF-015	

SECTION: 2 Process Piping/Equipment Yes () No () Personnel Lift Yes () No (A. WEIGHT 1. Weight of Headache Ball	A <u>Crane Lift Plan</u> must be cranes rated capacity. Se within 6 feet of process pi	ction 1 & Section 2 mus	t be filled out	when a lif	t is 50% or grea					
Craine Operator's Name:	SECTION: 1									
Craine Operator's Name:	Location:		'	'		Date of Lift:			•	
Weight of load: Weight of lifting tackle: Boom Angle: LIFT IS	Crane Operator's Nam	e:				 Certified Opera	ator?	Yes I	No	
Weight of load: Weight of lifting tackle: Boom Angle: LIFT IS		<u> </u>				•				
Weight of load: Weight of lifting tackle: Boom Angle: LIFT IS					INIEUTOG OF C	Johnnancauon	i willi Nigge			
Weight of lifting tackle: Boom Angle: LIFT IS	Supervisor Signature:									
Weight of lifting tackle: Boom Angle: LIFT IS		Weight of load:	-+							
Boom Angle: LIFT IS % OF THE CRANE'S RATED CAPACITY Sea & Wave Conditions: Environmental Conditions: (Must be within the past 1 years) This lift plan shall be utilized for lifts greater than 50% of the crane's rated capacity or if other conditions warrant a critical lift like lifting of employees in a Personnel Basket. Verified by: SECTION: 2 Process Piping/Equipment Yes () No () Personnel Lift Yes () No (A. WEIGHT D. CRANE			tackla							
LIFT IS % OF THE CRANE'S RATED CAPACITY Sea & Wave Conditions: Environmental Conditions: (Must be within the past 1 years) This lift plan shall be utilized for lifts greater than 50% of the crane's rated capacity or if other conditions warrant a critical lift like lifting of employees in a Personnel Basket. Verified by: Operator Name: SECTION: 2 Process Piping/Equipment Yes () No () Personnel Lift Yes () No (A. WEIGHT 1. Weight of Headache Ball Ibs. 1. Type of Crane 2. Weight of Block Ibs. 2. Crane Maximum Rated Capacity Tons 3. Weight of Lifting Bar Ibs. 3. Lifting Arrangement A. Weight of Slings & Shackles Ibs. 4. Weight of Slings & Shackles Ibs. 5. Length of Boom Ft. Total Weight of Load: Ibs. 6. Length of Boom Ft. Net Weight of Load: Ibs. 7. Cane Maximum Rated Capacity Tons 8. Cane Maximum Rated Capacity Tons 9. Langth of Boom Ft. 1. Weight of Load: Ibs. 1. Type of Crane Pate Capacity Tons 9. Langth of Boom Ft. 1. Weight of Load: Ibs. 1. Severest lifting conditions (from chart) Tons 9. Crane Flate, Drawings Calculated, Etc.) Severest lifting conditions (from chart) Tons 9. CRANE PLACEMENT Crane for this lift Tons 1. Obstacles or Obstructions to lift or swing? S. Maximum Load on Crane Tons 9. Swing Direction and Degree (Boom Swing) F. PRE-LIFT CHECK LIST Yes No 9. Sizing Max. Counterweights used Tons 1. Number of Slings A. Tag line used Tons 1. Number of Slings A. Tag line used Tons 1. Size of Slings Tons 1. Latest Crane Certification Date: Latest Crane Capacity of Capacity of Tons 1. Swige Jack Place Capacity of			tackie.							
Sea & Wave Conditions: Enviromental Conditions: (Must be within the past 1 years) This lift plan shall be utilized for lifts greater than 50% of the crane's rated capacity or if other conditions warrant a critical lift like lifting of employees in a Personnel Basket. Verified by: Operator Name: SECTION: 2 Process Piping/Equipment Yes () No () Personnel Lift Yes () No (A. WEIGHT 1. Weight of Headache Ball 1. Type of Crane 2. Weight of Block 1. Type of Crane 3. Weight of Lifting Bar 4. Weight of Slings & Shackles 1bs. 2. Crane Maximum Rated Capacity 3. Lifting Arrangement 4. Weight of Slings & Shackles 1bs. 3. Lifting Arrangement 4. Weight of Lifting Assembly 1bs. 4. Length of Boom 5. Length of Boom 6. Rated capacity of crane under 7. Severest lifting conditions (from chart) 7. Lobstacles or Obstructions to lift or swing? Severest lifting Conditions (from chart) 7. Swing Direction and Degree (Boom Swing) F. PRE-LIFT CHECK LIST 7. Swing Room 7. Lifting Severed light of Lifting Severed lifting Conditions (from chart) 7. Swing Room 7. Lifting Configuration (hitch) 7. Sizing Length 7. Load chart in crane										
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warrant a critical lift like lifting of employees in a Personnel Basket. Verified by: Operator Name: SECTION: 2 Process Piping/Equipment Yes () No () Personnel Lift Yes () No (A. WEIGHT 1. Weight of Headache Ball Ibs. 1. Type of Crane 2. Weight of Block Ibs. 2. Crane Maximum Rated Capacity Tons 3. Weight of Lifting Bar Ibs. 3. Lifting Arrangement Ibs. 3. Lifting Arrangement Ibs. 4. Weight of Slings & Shackles Ibs. 5. Length of Boom Ift. Total Weight of Load: Ibs. 6. Length of Boom Ift. Weight of Load: Ibs. 7. C. Angle of Boom at pick-up degree Ibs. 7. Load Weight of Load: Ibs. 6. Rated capacity of crane under Ibs. 7. Severest lifting conditions (from chart) 1. Obstacles or Obstructions to lift or swing? 7. Severest lifting conditions (from chart) 1. Swing Room Improved Ibs. 7. Swing Room Improved Improved Ibs. 7. Load Room Checked Improved Improve	Enviromental Condition	ns:			(Must be w	ithin the past	1 years)			
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1. Weight of Headache Ball Ibs. 1. Type of Crane 2. Weight of Block Ibs. 3. Weight of Lifting Bar Ibs. 3. Lifting Arrangement 3. Weight of Slings & Shackles Ibs. 3. Lifting Arrangement 4. Weight of Slings & Shackles Ibs. 5. Length of Boom Ft. Ft. Total Weight of Load: Ibs. 5. Length of Boom Ft.	SECTION: 2	Process Piping	/Equipme	nt Yes	s () No () Persoi	nnel Lift	Yes ()	No ()	
2. Weight of Block 3. Weight of Lifting Bar 4. Weight of Slings & Shackles bls. 4. Weight of Slings & Shackles bls. 5. Lifting Arrangement 6. And Weight of Lifting Assembly bls. 6. Length of Boom 6. Total Weight of Load: 6. Sizing of SLings 6. Experienced Rigger 6. Experienced Rigger 7. Load chart in crane 7. Load chart in crane 8. Crane Maximum Rated Capacity 7. Load to Center 8. Lifting Arrangement 9. Lifting Arange Alexange 9. Lifting Arrangement 9. Lifting Arrangement 9. Li	A. WEIGHT				D. CRANE					
3. Weight of Lifting Bar 4. Weight of Slings & Shackles lbs. a. Max. DistanceCenter of Load to Center pin of crane Ft. Total Weight of Lifting Assembly lbs. b. Length of Boom Ft. Net Weight of Load: lbs. c. Angle of Boom at pick-up degree d. Angle of Boom at set degree Total Weight of Load: lbs. (Name Plate, Drawings Calculated, Etc.) B. CRANE PLACEMENT 1. Obstacles or Obstructions to lift or swing? C. Sizing Direction and Degree (Boom Swing) F. PRE-LIFT CHECK LIST Yes No 1. Swing Room [] [] C. Sizing of SLINGS 1. Number of Slings 4. Tag line used [] [] 1. Number of Configuration (hitch) 5. Expridesignated Flagman [] [] 4. Sling Length 7. Load chart in crane [] []	1. Weight of Heada	ache Ball	lbs.		1. Type of 0	Crane				
4. Weight of Slings & Shackles lbs. a. Max. DistanceCenter of Load to Center pin of crane Ft. Total Weight of Lifting Assembly lbs. b. Length of Boom Ft. Net Weight of Load: lbs. c. Angle of Boom at pick-up degree d. Angle of Boom at set degree degree d. Angle of Boom at set degree d. Angle of Boom at set degree d. Angle of Boom at set degree degree degree degree d. Angle of Boom at set degree degree d. Angle	Weight of Block		lbs.		2. Crane Ma	aximum Rated	Capacity		Tons	
pin of crane	Weight of Lifting	Bar	lbs.		3. Lifting Ar	rangement				
Total Weight of Lifting Assembly lbs. Net Weight of Load: lbs. c. Angle of Boom at pick-up degree de	Weight of Slings	& Shackles	lbs.				er of Load t	o Center		
Net Weight of Load: Description Descrip										
d. Angle of Boom at set degree Total Weight of Load: Ibs. (Name Plate, Drawings Calculated, Etc.) B. CRANE PLACEMENT 1. Obstacles or Obstructions to lift or swing? 2. Swing Direction and Degree (Boom Swing) F. PRE-LIFT CHECK LIST Yes No 1. Swing Room [] [] C. SIZING of SLINGS 2. Head Room Checked [] [] 1. Number of Slings 2. Type of Configuration (hitch) 3. Size of Slings 4. Sling Length 4. Sling Length C. Angle of Boom at set degree e. Rated capacity of crane under Tons Severest lifting conditions (from chart) 4. From ChartRated Capacity of Tons Tons F. PRE-LIFT CHECK LIST Yes No 1. Swing Room 1. Swing Room 2. Head Room Checked 3. Max. Counterweights used 4. Tag line used 5. Exp/designated Flagman 1. [] 1. Coad chart in crane 1. [] []	•									
Total Weight of Load: Ibs. (Name Plate, Drawings Calculated, Etc.) B. CRANE PLACEMENT 1. Obstacles or Obstructions to lift or swing? 2. Swing Direction and Degree (Boom Swing) F. PRE-LIFT CHECK LIST 1. Swing Room 1. Swing Room 2. Head Room Checked 3. Max. Counterweights used 1. Number of Slings 2. Type of Configuration (hitch) 3. Size of Slings 4. Sling Length 4. Rated capacity of crane under Severest lifting conditions (from chart) 4. From ChartRated Capacity of Tons Crane for this lift 5. Maximum Load on Crane Tons Tons 1. Number of Slings 4. Tag line used 5. Exp/designated Flagman 6. Experienced Rigger 7. Load chart in crane Tons Tons 1. Tons 1. Fons 1. Swing Room 1. Swing Room 1. Swing Room 2. Head Room Checked 3. Max. Counterweights used 4. Tag line used 5. Exp/designated Flagman 1. Image: Plate Chart in crane Tons Tons 1. Swing Room 1. Swing Room 2. Head Room Checked 3. Max. Counterweights used 4. Tag line used 5. Exp/designated Flagman 7. Load chart in crane 1. Image: Plate Chart in crane Tons Tons 1. Tons 1. Swing Room 1. Swing Room 2. Head Room Checked 3. Max. Counterweights used 4. Tag line used 5. Exp/designated Flagman 7. Load chart in crane 1. Image: Plate Chart in crane Tons	Net Weight of Load	J:	lbs.						degrees	
Severest lifting conditions (from chart) 4. From ChartRated Capacity of Tons	T-(-1 W/-!									
4. From ChartRated Capacity of Crane for this lift 1. Obstacles or Obstructions to lift or swing? 2. Swing Direction and Degree (Boom Swing) F. PRE-LIFT CHECK LIST Yes No 1. Swing Room [] [] C. SIZING of SLINGS 2. Head Room Checked [] [] 3. Max. Counterweights used [] [] 1. Number of Slings 4. Tag line used [] [] 2. Type of Configuration (hitch) 5. Exp/designated Flagman 7. Load chart in crane [] []			IDS.	_		•		abart\	ions	
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2. Swing Direction and Degree (Boom Swing) F. PRE-LIFT CHECK LIST Yes No 1. Swing Room [] [] 2. Head Room Checked [] [] 3. Max. Counterweights used [] [] 4. Tag line used [] [] 2. Type of Configuration (hitch) 5. Exp/designated Flagman [] [] 3. Size of Slings 6. Experienced Rigger [] [] 4. Sling Length 7. Load chart in crane [] []			ina?				10		Tons	
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4. Sling Length 7. Load chart in crane [] []		ıration (hitch)						[]	[]	
				_						
5. Kated Capacity of Slings		of Oliner-								
		-				[] r 1	L J			
6. Number of Shackles 9. Helicopter Concerns [] [] 7. Rated Capacity of Shackles 10. Inspection of personnel basket [] []						<u>L</u>	[L]			
					τυ. περε	soudin di perso	iniei Daskel	LJ	L J	
Special Instructions / Restrictions for Crane, No Employee will operate a crane without having a	•		or Crane,		No Emplo	vee will operat	e a crane wi	thout havi	ng a	
Rigging, Lift, etc. Rigging, Lift, etc. current crane certification.	Rigging, Lift, etc.		_							
* When lifting from a vessel, the dynamic load chart should always be used.	* \	Vhen lifting from a v	vessel the	dvnamic	load chart	should always	s be used			

	WEIG	HT IN POU	NDS OF STD. V	YT. WELD FITTING				W	EIGHT OF	STEEL PLATE				
NOM.	90° LT	45 ° LT	STRAIGHT		STUR		T	HICKNESS	LBS PEI	SO EI	,	CKNESS	LBS	SQ. FT
PIPE	WELD	WELD	TEES	REDUCERS	ENDS	CAPS		N INCHES	SQ. FT.	PER	l l	INCHES	PER	PER
SIZE 1	E11	E11 .17	.63	.28	.66	.22		3/8	15.3	TON 1.31		1 1/8	SQ. FT 45.9	TON 44
1 1/2	.84	.42	1.7	.57	1.2	.37		1/2	20.4	98		1 1/4	51.0	39
2	1.5	.75	4.2	.90	2.2	.51		5/8	25.5	79		1 3/8	56.1	35.7
2 1/2	3.0	1.5	5.9	1.7	3.5	.81		3/4	30.6	65		1 1/2	61.2	32
3	4.7	2.3	8.4	2.2	4.7	1.4		7/8	35.7	56		1 3/4	71.4	28
4	8.9	4.4	13	3.6	7.0	2.5		1	40.8	49		2	81.6	24
6	24	12	36	8.7	15	6.4								
8	47	23	61	14	23	11								
10	83	42	91	24	40	20								
12	123	61	147	33	49	29								
14	158	79	226	59 72	64	35								
16 18	207 263	104 132	242 333	73 88	72 85	45 57								
20	323	162	504	131	94	71								
24	468	234	765	158	113	102								
				D NECK FLAN		102		WEIGHT IN	POUNDS	OF CAST S	TEEL, F	LANGEI	GATE V	ALVES
NOM.						2500								
PIPE	150 LB	300 LB	600 LB	900 LB	1500 LB	2500 LB	,	SIZE INCHES	150 LBS.	300 LBS.	600 I	LBS.	900 LBS.	1,500 LBS.
SIZE					LD	LD	1	INCHES	LDS.				LDS.	LDS.
1	3	4	4		9	12			55	75	9.			180
1 1/2	4	7	8		13	25		2 1/2	70	100	14	-		280
2	6	9	12		25	42		3	95	145	17		260	370
2 1/2	8	12	18		36	52		4	140	215	33		430	6,101
3	10	15	23	31 53	48	94		6	240	420 700	72		900	1,410
4	15	25	42		73	145		8	400		1,2		1,560	2,600
6 8	24 39	42 67	81 120	110 175	165 275	380 580		10 12	630 830	1,050 1,490	1,8 2,6		2,350 3,500	
10	52	91	190	260	455	1,075		14	1,150	2,170	3,2		4,680	
12	80	140	225	325	690	1,152		16	1,580	2,800	4,2		62500	
14	110	180	280	400	940	1,132		10	1,500	2,000	7,2	30	02300	
16	140	250	390	495	1,250									
18	150	320	475	680	1,625									
20	180	400	590	830	2,050									
24	260	580	830	1,500	3,325									
				WEIGHT				LDED STEE	EL PIPE					
	RMAL	OU	TSIDE			IRON PIPI	ESIZE				SCHE	DULE NU	IMRER	
	E SIZE		METER	STD. WT		X.S. W		X.X.S.		40 WT		80 WT.		60 WT.
1	1/2	0	.840	0.85		X.S. W 1.09		1.7	1	0.85		80 WT. 1.09		1.3
1	1/2 3/4	0 1	.840 .050	0.85 1.13		X.S. W 1.09 1.47		1.7 2.4	1 4	0.85 1.13		80 WT. 1.09 1.47		1.3 1
1 3	1/2 3/4 1	0 1 1	.840 .050 .315	0.85 1.13 1.68		X.S. W 1.09 1.47 2.17		1.7 2.4 3.6	1 4 6	0.85 1.13 1.68		80 WT. 1.09 1.47 2.17		1.3 1 1.9
1 3	1/2 3/4 1 1 ½	0 1 1 1	.840 .050 .315 .900	0.85 1.13 1.68 2.72		X.S. W 1.09 1.47 2.17 3.63		1.7 2.4 3.6 6.4	1 4 6 1	0.85 1.13 1.68 2.72		80 WT. 1.09 1.47 2.17 3.63		1.3 1 1.9 4
1 3 1	1/2 3/4 1 1 ½ 2	0 1 1 1 2	.840 .050 .315 .900	0.85 1.13 1.68 2.72 3.65		X.S. W 1.09 1.47 2.17 3.63 5.02		1.7 2.4 3.6 6.4 9.0	1 4 6 1 3	0.85 1.13 1.68 2.72 3.65		1.09 1.47 2.17 3.63 5.02		1.3 1 1.9 4 2.8
1 3 1	1/2 3/4 1 1 ½	0 1 1 1 2 2	.840 .050 .315 .900 .375	0.85 1.13 1.68 2.72 3.65 5.79		X.S. W 1.09 1.47 2.17 3.63 5.02 7.66	T.	1.7 2.4 3.6 6.4 9.0 13.	1 4 6 1 3 70	0.85 1.13 1.68 2.72 3.65 5.79		80 WT. 1.09 1.47 2.17 3.63 5.02 7.66		1.3 1 1.9 4 2.8 10.
1 3 1	1/2 3/4 1 1 ½ 2	0 1 1 1 2 2 2 3	.840 .050 .315 .900 .375 .875	0.85 1.13 1.68 2.72 3.65 5.79 7.58		X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25	Т.	1.7 2.4 3.6 6.4 9.0 13.:	1 4 6 6 1 3 70 58	0.85 1.13 1.68 2.72 3.65 5.79 7.58		80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25		1.3 1 1.9 4 2.8 10. 01
1 3 1	1/2 3/4 1 1 ½ 2	0 1 1 1 2 2 2 3 4	.840 .050 .315 .900 .375 .875 .500	0.85 1.13 1.68 2.72 3.65 5.79		X.S. W 1.09 1.47 2.17 3.63 5.02 7.66	T.	1.7 2.4 3.6 6.4 9.0 13.	1 4 6 1 3 70 58 54	0.85 1.13 1.68 2.72 3.65 5.79		80 WT. 1.09 1.47 2.17 3.63 5.02 7.66		1.3 1 1.9 4 2.8 10.
1	1/2 3/4 1 1 ½ 2	0 1 1 1 2 2 2 3 4 6	.840 .050 .315 .900 .375 .875	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79		X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98	Т.	1.7 2.4 3.6 6.4 9.0 13.1 18.5 27.5	1 4 6 1 3 70 58 54	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79		80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98		1.3 1 1.9 4 2.8 10. 01 14.
1 2	1/2 3/4 1 1 1 ½ 2 2 2½/ ₂ 3 4 6 8	0 1 1 1 2 2 2 3 4 6	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE	ESISTAN	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39	T.	1.7 2.4 3.6 6.4 9.0 13 18.5 27.5 53.1	1 4 6 1 3 70 58 54 16	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97		1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39	1	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
3 1 2 SCREW	1/2 3/4 1 1 1/2 2 22/2 3 4 6 8 8 V PIN ANCI	0 1 1 1 2 2 2 3 4 6 8 HOR SHACK	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO)	T.	1.7 2.4 3.6 6.4 9.0 13 18.5 27.5 53.1	1 4 6 1 3 70 58 54	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97		80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM		1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW	1/2 3/4 1 1 1/2 2 22/2 3 4 6 6 8 V PIN ANCI	0 1 1 1 2 2 2 3 4 6 8 HOR SHACK	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.4	1 4 6 1 3 70 58 54 16 42	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97	AP	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU	IATE WEI	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ	1/2 3/4 1 1 1/2 2 2 22/2 3 4 6 6 8 V PIN ANCI	0 1 1 1 2 2 2 3 4 6 6 8 HOR SHACK	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLING	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO)	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.:	1 4 6 6 1 3 70 58 54 16 42 ATERIAL	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97	AP	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU	IATE WEI	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ 3/3 3	1/2 3/4 1 1 1/2 2 22/2 3 4 6 6 8 8 V PIN ANCI	0 1 1 1 2 2 2 3 4 6 6 8 HOR SHACK	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT.	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.: M.	1 4 6 6 1 3 3 70 58 54 16 42 ATERIAL	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97	AP 166 LBS 81 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU	IATE WEI	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ 3/ 3/ 5/	1/2 3/4 1 1 1 1/2 2 22/2 3 4 6 6 8 8 V PIN ANCI	0 1 1 1 2 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLING E DIAM. IN.	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.4 M.	1 4 6 6 1 3 3 70 58 54 16 42 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55	AP 166 LBS 81 LBS 524 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU	IATE WEI	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ 3/ 3/ 3/ 3/ 3/ 3/ 3/ 3/ 3/ 3	1/2 3/4 1 1 1 1/2 2 22/2 3 4 6 6 8 8 V PIN ANCI	0 1 1 1 2 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING DIAM. IN.	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 5. PER FT. 0.64 0.133 0.177	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.4 M. AI	1 4 6 6 1 3 3 70 58 54 16 42 ATERIAL UMINUM SPHALT BRASS K (COMMO	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU	IATE WEI	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ 3/ 33 5/ 37/	1/2 3/4 1 1 1 1/2 2 22/2 3 4 6 6 8 8 V PIN ANCI EE (A) 1/16" 1/4" 1/16"	00 11 11 22 22 33 46 68 8HOR SHACK WEIGHT .05 0.13 0.21 0.33	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN.	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE ROT (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72 M. AL BRICH	1 4 6 6 1 3 3 70 58 54 16 42 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU	IATE WEI	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ 3/ 33 5/ 37/ 11	1/2 3/4 1 1 1 1/2 2 22/2 3 3 4 6 6 8 8 V PIN ANCI EE (A) 1/16" 1/4" 1/16" 1/8" 1/8"	00 11 11 22 22 33 46 68 8HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RG T (APPRO) 6. PER FT. 0.64 0.133 0.177 0.25 0.35	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.4 M. AI AI BRICH	1 4 6 6 1 3 70 58 54 16 142	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	IATE WEI	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ 3/ 33 5/ 31 7/ 11	1/2 3/4 1 1 1 1/2 2 2 22/2 3 4 6 8 8 V PIN ANCI E (A) 1/6" 1/4" 1/16" 1/4" 1/16" 1/8"	00 11 11 12 22 23 34 46 88 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RG T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.: M. AL ABRICE	1 4 4 6 6 1 3 3 70 58 54 16 142	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS 537 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU 6. 6. 6. 6. 6. 6. 6.	IATE WEI BIC FOO	1.3 1 1.9 4 2.8 10. 01 14. 31 22.
SCREW SIZ 3/ 33 5/ 11 5 33 7/ 11 55	1/2 3/4 1 1 1 1/2 2 2 22/2 3 4 6 8 8 V PIN ANCI E(A) 1/6" 1/4" 1/6" 1/4" 1/6" 1/4"	00 11 11 12 22 23 34 46 88 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RG T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72 M. AI AI BRICH	1 4 4 6 6 1 3 3 70 58 54 16 142	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS 537 LBS 95 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	IATE WEI IBIC FOO'	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T
SCREW SIZ 3/ 33 5// 11 5 3 7/ 17 5 3 7/	1/2 3/4 1 1 1 1/2 2 2 22/2 3 4 6 8 8 V PIN ANCI EE (A) 7/16" 7/4" 7/16" 7/2" 7/4" 7/4" 7/4" 7/8"	00 11 11 12 22 23 34 46 68 WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLINGE DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RG T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72 M. AL ABRICE E CC CRU: DRY E	1 4 4 6 6 1 3 3 70 58 54 16 142	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS 537 LBS 95 LBS 76 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	IATE WEI BIC FOO	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T
SCREW SIZ 3/ 3/ 3/ 5/ 11 5 3/ 7/ 11 5 3/ 7/	1/2 3/4 1 1 1 1/2 2 2 22/2 3 4 6 8 8 V PIN ANCI EE (A) 1/6" 1/4" 1/6" 1/4" 1/4" 1/8" 11"	00 11 11 12 22 23 34 46 68 WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLINGE DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RG T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72 M. AL ABRICE E CC CRU: DRY E	1 4 6 6 1 3 70 58 54 16 12	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 4 LBS 150 LBS 537 LBS 95 LBS 76 LBS 450 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 5. 5. 6. 6. 6. 7. 7. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	IATE WEI IBIC FOO'	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T
SCREW SIZ 3/ 33 5/ 11 5 37/ 11 5 1.	1/2 3/4 1 1	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLINGE DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.: M. AL ABRICH F. CC CRU: DRY E IROI	1 4 6 6 1 3 70 58 54 16 12	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55	AP 166 LBS 81 LBS 524 LBS 125 4 LBS 150 LBS 537 LBS 95 LBS 76 LBS 76 LBS 708 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU 6. 6. 6. 6. 7. 6. 6. 7. 6. 6. 6. 7. 6. 6. 6. 7. 6. 6. 6. 7. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1050 lbs. Pe	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GHT T
SCREW SIZ 3/ 33 5/ 11 5 37 71 1. 1.	1/2 3/4 1 1	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5 7	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLINGE DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) B. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39 1.82	T.	1.7 2.4 3.6 6.4 9.0 13 18.3 27.3 53 72.4 M. AI ABRICH CC CRUS DRY E IROS LUMBER	1 4 6 6 1 3 70 58 54 16 12	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 4 LBS 150 LBS 537 LBS 95 LBS 76 LBS 450 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU 6. 6. 6. 6. 6. 7. 6. 7. 6. 7. 6. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	IATE WEI IBIC FOO'	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GHT T
SCREW SIZ 3/ 33 5/ 3 7/ 1 5 3 7 1.	1/2 3/4 1 1	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLINGE DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.: M. AL ABRICH BRICH CC CRU: DRY E IROI LUMBER LUMBER LUM	1 4 6 6 1 3 70 58 54 16 14 2	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS 537 LBS 76 LBS 76 LBS 708 LBS 32 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PPROXIM PER CU 6. 6. 6. 6. 7. 6. 7. 6. 7. 6. 6. 7. 6. 7. 6. 7. 6. 6. 7. 6. 6. 7. 6. 6. 7. 6. 6. 7. 6. 6. 7. 6. 6. 6. 7. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1050 lbs. Pe	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GHT T
SCREW SIZ 3/ 33 5/ 3 7/ 1 5 3 7 1. 1.	1/2 3/4 1 1 1/2 2 22/2 3 4 6 8 V PIN ANCI EE (A) (16" //4" //4" //8" 11" 11/8" 11/8" 11/4" 3/8"	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5 7 9.5	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION REE ROPE SLINGE DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1 1/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) B. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39 1.82 2.3	T.	1.7 2.4 3.6 6.4 9.0 13 18.3 27.3 53 72.4 ML AI ABRICH CC CRUS DRY E IROI LUMBER LUMBER LUM MA	1 4 6 6 1 3 70 58 54 16 42	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 751 LBS 76 LBS 76 LBS 70 LB	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1050 lbs. Pe	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T
SCREW SIZ 3/ 3/ 3/ 3/ 5/ 3/ 7/ 1 55 37 7. 1. 1.	1/2 3/4 1 1-1-1/2 2 22/2 3 4 6 8 8 V PIN ANCI EE (A) 7-16" 7-16" 7-16" 7-18" 1-18" 1-14" 3/8" 1-1/4" 3/8" 1-1/2"	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5 7 9.5 13	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1 1/8 1 1/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39 1.82 2.3 2.84	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.: ML AI AI BRICH CC CRU; DRY E IRO! LUMBER LUM MA	1 4 6 6 1 3 70 58 54 16 14 2	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 150 LBS 537 LBS 95 LBS 76 LBS 450 LBS 708 LBS 32 LBS 62 LBS 109 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1050 lbs. Pe 2052 lbs. Pe 266 lbs. Per t	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T
SCREW SIZ 3/ 3/ 3/ 3/ 5/ 3/ 7/ 1 55 37 7. 1. 1.	1/2 3/4 1 1 1-1/2 2 2 22/2 3 4 6 8 V PIN ANCI E (A) 716" 716" 716" 718" 714" 718" 714" 718" 714" 718" 714" 714" 714" 714" 714" 714" 714" 714	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5 7 9.5 13 16.5 29	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1 1/8 1 1/8 1 1/4 1 3/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39 1.82 2.3 2.84 3.43	T.	1.7 2.4 3.6 6.4 9.0 13.: 18.: 27.: 53.: 72.: ML AI AI BRICH CC CRU: DRY E IRO! LUMBER LUM MA M PORTL	1 4 6 6 1 3 70 58 54 16 42	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS 537 LBS 95 LBS 76 LBS 76 LBS 32 LBS 62 LBS 109 LBS 848 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	IATE WEI BIC FOOT 1050 lbs. Pe 1052 lbs. Pe 106 lbs. Per t 106 lbs. Per t 107 per flask	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T
SCREW SIZ 3/ 3/ 3/ 3/ 5/ 3/ 7/ 1 55 37 7. 1. 1.	1/2 3/4 1 1 1-1/2 2 2 22/2 3 4 6 8 V PIN ANCI E (A) 716" 716" 716" 718" 714" 718" 714" 718" 714" 718" 714" 714" 714" 714" 714" 714" 714" 714	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5 7 9.5 13 16.5 29	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1 1/8 1 1/8 1 1/4 1 3/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39 1.82 2.3 2.84 3.43	T.	1.7 2.4 3.6 6.4 9.0 13 18.: 27.: 53.: 72.: ML AL BRICH CC CRU: DRY E IRO: LUMBER LUM MA MPORTL RIV	1 4 6 6 1 3 70 58 54 16 42	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS 537 LBS 95 LBS 76 LBS 76 LBS 32 LBS 62 LBS 109 LBS 848 LBS 94 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1050 lbs. Per to 1052 l	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T er cu. Yd. er cu. Yd. housand ft. housand ft.
SCREW SIZ 3/ 3/ 3/ 3/ 5/ 3/ 7/ 1 55 37 7. 1. 1.	1/2 3/4 1 1 1-1/2 2 2 22/2 3 4 6 8 V PIN ANCI E (A) 716" 716" 716" 718" 714" 718" 714" 718" 714" 718" 714" 714" 714" 714" 714" 714" 714" 714	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5 7 9.5 13 16.5 29	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1 1/8 1 1/8 1 1/4 1 3/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39 1.82 2.3 2.84 3.43	T.	1.7 2.4 3.6 6.4 9.0 13 18.8 27.8 53 72.4 ML AL BRICH CC CRU: DRY E IROI LUMBER LUM MA MPORTL RIV	1 4 6 6 1 3 70 58 54 16 42	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 76 LBS 76 LBS 76 LBS 32 LBS 62 LBS 109 LBS 848 LBS 94 LBS 120 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1050 lbs. Per to 1052 l	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T er cu. Yd. er cu. Yd. housand ft. housand ft.
SCREW SIZ 3/ 3/ 3/ 3/ 5/ 3/ 7/ 1 55 37 7. 1. 1.	1/2 3/4 1 1 1-1/2 2 2 22/2 3 4 6 8 V PIN ANCI E (A) 716" 716" 716" 718" 714" 718" 714" 718" 714" 718" 714" 714" 714" 714" 714" 714" 714" 714	0 1 1 1 2 2 3 4 6 8 HOR SHACK WEIGHT .05 0.13 0.21 0.33 0.47 0.76 1.44 2.3 3.5 5 7 9.5 13 16.5 29	.840 .050 .315 .900 .375 .875 .500 .500 .625 .625 KLES 19 X 7 WIRI	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 18.97 28.55 ROTATION RE E ROPE SLING E DIAM. IN. 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1 1/8 1 1/8 1 1/4 1 3/8	ESISTAN' WEIGH	X.S. W 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 T WIRE RO T (APPRO) 3. PER FT. 0.64 0.133 0.177 0.25 0.35 0.45 0.58 0.71 1.02 1.39 1.82 2.3 2.84 3.43	T.	1.7 2.4 3.6 6.4 9.0 13 18.8 27.8 53 72.4 ML AL BRICH CC CRU: DRY E IROI LUMBER LUM MA MPORTL RIV	1 4 4 6 6 1 3 3 70 58 54 16 42	0.85 1.13 1.68 2.72 3.65 5.79 7.58 10.79 28.55	AP 166 LBS 81 LBS 524 LBS 125 LBS 534 LBS 150 LBS 537 LBS 95 LBS 76 LBS 450 LBS 62 LBS 109 LBS 848 LBS 94 LBS 120 LBS 490 LBS	80 WT. 1.09 1.47 2.17 3.63 5.02 7.66 10.25 14.98 28.57 43.39 PROXIM PER CU 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1050 lbs. Per to 1052 l	1.3 1 1.9 4 2.8 10. 01 14. 31 22. GGHT T er cu. Yd. er cu. Yd. housand ft. housand ft.