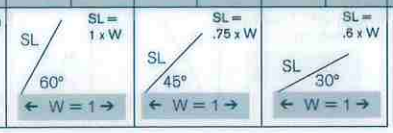
Laclede Chain Grade 100 Sling Capacities ④

LacledAlloy Grade 100 [L10] Size in inches	SINGLE VERTICAL		DOUBLE 60°		DOUBLE 45°		DOUBLE 30°		Size in mm
	Lbs.	Kgs.	Lbs.	Kgs.	Lbs.	Kgs.	Lbs.	Kgs.	
9/32	4,300	1,950	7,400	3,400	6,100	2,750	4,300	1,950	7
5/16	5,700	2,600	9,900	4,500	8,100	3,700	5,700	2,600	8
3/8	8,800	4,000	15,200	6,950	12,400	5,650	8,800	4,000	10
1/2	15,000	6,800	26,000	11,800	21,200	9,600	15,000	6,800	13
5/8	22,600	10,300	39,100	17,750	32,000	14,500	22,600	10,300	16
3/4	35,300	16,000	61,100	27,700	49,900	22,650	35,300	16,000	20
7/8	42,700	19,400	74,000	33,500	60,400	27,350	42,700	19,400	22

Sling Length : Load Width Ratio (approx.)

Angle = SL : W
60° = 1 : 1
45° = .75 : 1
30° = .60 : 1



Laclede Chain Grade 100 Sling Capacities ⑤

LacledAlloy Grade 100 [L10] Size in inches	TRIPLE & QUADRUPLE 60°		TRIPLE & QUADRUPLE 45°		TRIPLE & QUADRUPLE 30°		Size in mm
	Lbs.	Kgs.	Lbs.	Kgs.	Lbs.	Kgs.	
9/32	11,200	5,050	9,100	4,150	6,400	2,950	7
5/16	14,800	6,750	12,100	5,500	8,500	3,900	8
3/8	22,900	10,400	18,700	8,500	13,200	6,000	10
1/2	39,000	17,650	31,800	14,450	22,500	10,200	13
5/8	58,700	26,650	47,900	21,750	33,900	15,400	16
3/4	91,700	41,550	74,900	33,950	53,000	24,000	20
7/8	110,900	50,250	90,600	41,050	64,000	29,050	22

The rigger should remember that when lifting a rigid load with 4 legs, it is quite common for only three legs to actually pick up the load. We should regard the fourth leg as a stabilizer for control purposes and not for capacity.

WARNING: Refer to hoist & rigging equipment manufacturers' specifications for proper applications and limitations.

Grade 80 & 100 Chain Sling Information ⑥

Inspection Criteria

- Tag /Tag information verified
- Sling reach and/or localized elongation of chain links
- Proper chain grade markings
- Nicks
- Gouges
- Metal loss due to abrasion
- Bent links
- Distorted chain links, couplers or end fittings
- Heat damage from weld spatter or a furnace-type exposure
- Corrosion or severe pitting
- Component hinge-ability

Wear Table

Chain Size inches	Chain Size mm	Min. Allow. Dia. (")
9/32	7	.239
5/16	8	.273
3/8	10	.342
1/2	13	.443
5/8	16	.546
3/4	20	.687
7/8	22	.750
1	26	.887

Effect of Heat on Working Load Limit

Temperature (°F)	Temperature (°C)	Grade 80: Reduction of Working Load Limit WHILE AT Temperature	Grade 80: Permanent Reduction of Working Load Limit AFTER EXPOSURE to Temperature	Grade 100: Reduction of Working Load Limit WHILE AT Temperature	Grade 100: Permanent Reduction of Working Load Limit AFTER EXPOSURE to Temperature
Below 400	Below 204	None	None	None	None
400	204	10%	None	15%	None
500	260	15%	None	25%	5%
600	316	20%	5%	30%	15%
700	371	30%	10%	40%	20%
800	427	40%	15%	50%	25%
900	482	50%	20%	60%	30%
1000	538	60%	25%	70%	35%
Over 1000	Over 538	OSHA 1910.184 requires all slings exposed to temperatures over 1000°F to be removed from service			

Laclede Chain Grade 100 Sling Capacities ④

Laclede Chain Grade 100 Sling Capacities ⑤

Grade 80 & 100 Chain Sling Information ⑥