



Journeyman Rigger's Reference Card

Sling Capacities

MECHANICAL SPLICE IN POUNDS

DESIGN FACTOR 5:1

	Size in inches	1:2 Vertical	1:2 Loop or Basket 90° 1:2	60° 1:2	45° 1:2	30° 1:2	1:2 Loop Only if 1/2 inch or less	Size in mm
Wire Rope 1/2" (12.7mm)	1/4	1,300	960	2,600	2,200	1,820	1,300	6.4
	5/16	2,000	1,480	4,000	3,400	2,800	2,000	8.0
	3/8	2,800	2,200	5,600	5,000	4,000	2,800	9.6
	7/16	3,600	2,800	7,600	6,800	5,400	3,600	11.0
	1/2	5,000	3,800	10,000	8,800	7,200	5,000	12.0
	9/16	6,400	4,800	12,800	11,000	9,000	6,400	14.0
	5/8	7,800	5,800	15,600	13,600	11,000	7,800	16.0
	3/4	11,200	8,200	22,400	19,400	15,800	11,200	19.0
	7/8	15,200	11,200	30,400	26,000	22,000	15,200	22.0
	1	19,600	14,400	39,200	34,000	28,000	19,600	25.4
Wire Rope 1 1/2" (38.1mm)	1-1/8	24,000	18,000	48,000	42,000	34,000	24,000	28.5
	1-1/4	30,000	22,500	60,000	52,000	42,000	30,000	32.0
		MULTIPLIER		1.00	.75	.50	MULTIPLY BY	

Formula to find sling length: Total distance between pick points x Multiplier = Sling Length

Load Factors & Weight Distribution

5,000 # 5,000 # Tension in A = $\frac{\text{length B}}{\text{length A}} \times \text{share of load wt.}$ $\frac{B}{A}$ = Load Factor

Tension in A = $\frac{B}{3} \times 4,000$
Tension in A = 8,000 #

Known Runs

Share of Load Wt. @ A: $R_1 + R_2 = TS$
 $R_1 = P$
 $P \times W = \text{Share of Load wt. @ A}$

Share of Load Wt. @ B: $R_1 + R_2 = TS$
 $R_2 = P$
 $P \times W = \text{Share of Load wt. @ B}$

Legend:
R₁ = Run, Side 1 (A)
R₂ = Run, Side 2 (B)
TS = Total Span
P = Percentage
W = Weight of Load

Known Weights

CG in Feet From A: $W_1 + W_2 = TW$
 $W_1 = P$
 $P \times S = \text{CG in ft. from A}$

CG in Feet From B: $W_1 + W_2 = TW$
 $W_2 = P$
 $P \times S = \text{CG in ft. from B}$

Legend:
W₁ = Weight at A
W₂ = Weight at B
TW = Total Weight
P = Percentage
S = Span

Sling Capacities

DESIGN FACTORS - CHAIN 4:1

WEB 5:1

ROUND 5:1

	Size in Code	1:2 Vertical	1:2 Loop or Basket 90° 1:2	60° 1:2	45° 1:2	30° 1:2	1:2 Loop Only if 1/2 inch or less	Diameter or Width
Chain 6:1	9/32	3,500	2,800	7,000	6,100	4,800	3,500	7 mm
	3/8	7,100	5,680	14,200	12,300	10,000	7,100	10 mm
	1/2	12,000	9,600	24,000	20,800	17,000	12,000	13 mm
	5/8	18,100	14,480	36,200	31,300	25,600	18,100	16 mm
Web Eye & Eye	1-9-1	1,600	1,280	3,200	2,770	2,260	1,600	1"
	1-9-2	3,200	2,560	6,400	5,540	4,452	3,200	2"
	1-9-3	4,800	3,840	9,600	8,300	6,780	4,800	3"
	1-9-4	6,400	5,120	12,800	11,090	9,040	6,400	4"
	2-9-3	8,880	7,100	17,760	15,380	12,540	8,880	3"
	2-9-4	11,520	9,210	23,040	19,960	16,270	11,520	4"
Polyester Round	EN30	2,600	2,100	5,300	4,500	3,600	2,600	1"
	EN40	5,300	4,200	10,600	9,100	7,500	5,300	1"
	EN90	8,400	6,700	16,800	14,500	11,800	8,400	1.5"
	EN120	10,600	8,500	21,200	18,300	14,900	10,600	1.5"
	EN150	13,200	10,600	26,400	22,800	18,600	13,200	2"
	EN180	16,800	13,400	33,600	29,100	23,700	16,800	2"

Journeyman Rigger Study Guide

M Lipman



Journeyman Rigger Study Guide:

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The Complete Rigger's Apprentice: Tools and Techniques for Modern and Traditional Rigging Brion

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