



# JOURNEYMAN RIGGER'S REFERENCE CHART

| Sling Capacities |        | MECHANICAL SPLICE IN POUNDS |             |         |                 |                 |         | DESIGN FACTOR 5:1 |      |
|------------------|--------|-----------------------------|-------------|---------|-----------------|-----------------|---------|-------------------|------|
| Size in inches   | WLL    | 1/2" x 1/2"                 | 3/4" x 3/4" | 1" x 1" | 1 1/4" x 1 1/4" | 1 1/2" x 1 1/2" | 2" x 2" | Size in inches    | WLL  |
| 1/8              | 1,300  | 900                         | 2,600       | 2,200   | 1,600           | 1,500           | 3,300   | 5/8               | 6.4  |
| 5/16             | 2,000  | 1,400                       | 4,000       | 3,400   | 2,600           | 2,500           | 5,100   | 3/4               | 8.0  |
| 3/8              | 2,800  | 2,000                       | 5,600       | 4,800   | 3,600           | 3,500           | 7,100   | 1                 | 10.7 |
| 7/16             | 3,800  | 2,800                       | 7,600       | 6,600   | 5,000           | 4,800           | 9,600   | 1 1/4             | 13.6 |
| 1/2              | 5,000  | 3,800                       | 10,000      | 8,800   | 6,600           | 6,400           | 12,800  | 1 1/2             | 16.0 |
| 5/8              | 6,400  | 4,800                       | 12,800      | 11,200  | 8,400           | 8,200           | 16,400  | 2                 | 21.3 |
| 3/4              | 7,800  | 5,800                       | 15,600      | 13,600  | 10,200          | 10,000          | 20,000  | 2 1/4             | 25.0 |
| 7/8              | 9,400  | 7,000                       | 18,800      | 16,400  | 12,200          | 12,000          | 24,000  | 3                 | 32.0 |
| 1                | 11,200 | 8,200                       | 22,400      | 19,600  | 14,400          | 14,200          | 28,400  | 3 1/2             | 36.0 |
| 1 1/8            | 13,000 | 9,500                       | 26,000      | 22,800  | 17,000          | 16,800          | 33,600  | 4                 | 42.7 |
| 1 1/4            | 15,000 | 11,000                      | 30,000      | 26,400  | 19,600          | 19,400          | 38,800  | 4 1/2             | 47.9 |
| 1 1/2            | 17,000 | 12,500                      | 34,000      | 29,800  | 22,200          | 22,000          | 44,000  | 5                 | 53.6 |
| 1 3/4            | 19,000 | 14,000                      | 38,000      | 33,200  | 24,800          | 24,600          | 49,200  | 5 1/2             | 58.9 |
| 2                | 22,000 | 16,000                      | 44,000      | 38,400  | 28,400          | 28,200          | 56,400  | 6                 | 64.0 |

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

| Load Factors & Weight Distribution                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5,000 lb 5,000 lb Tension in A = length B = share of load wt. B = Load Factor</p> <p>Tension in A = <math>\frac{B}{3} \times 4,000</math></p> <p>Tension in A = 5,333 lb</p>                                                                                                                          | <p>Known Ropes</p> <p>Stops of Load on A</p> <p><math>R_A = R_B = T_B</math></p> <p><math>P \times W = \text{Share of Load}</math></p> <p>CG in Feet from A</p> <p><math>R_A = W_L - T_B</math></p> <p><math>T_B = P \times W</math></p> <p><math>P \times C = CG \times T_B \text{ from A}</math></p>                                                                                     |
| <p>Known Weights</p> <p>Stops of Load on B</p> <p><math>R_B = R_A = T_A</math></p> <p><math>P \times W = \text{Share of Load}</math></p> <p>CG in Feet from B</p> <p><math>R_B = W_L - T_A</math></p> <p><math>T_A = P \times W</math></p> <p><math>P \times C = CG \times T_A \text{ from B}</math></p> | <p>Legend</p> <p><math>R_A = \text{Rope 1 Tension}</math></p> <p><math>R_B = \text{Rope 2 Tension}</math></p> <p><math>T_A = \text{Total Tension}</math></p> <p><math>T_B = \text{Total Tension}</math></p> <p><math>P = \text{Percentage}</math></p> <p><math>W = \text{Weight}</math></p> <p><math>C = \text{Center of Gravity}</math></p> <p><math>W_L = \text{Total Weight}</math></p> |

| Sling Capacities |        | DESIGN FACTORS - CHAIN 4:1 |             |         |                 |                 |         | ROPE 5:1       |      |
|------------------|--------|----------------------------|-------------|---------|-----------------|-----------------|---------|----------------|------|
| Size in inches   | WLL    | 1/2" x 1/2"                | 3/4" x 3/4" | 1" x 1" | 1 1/4" x 1 1/4" | 1 1/2" x 1 1/2" | 2" x 2" | Size in inches | WLL  |
| 1/8              | 1,300  | 900                        | 2,600       | 2,200   | 1,600           | 1,500           | 3,300   | 5/8            | 6.4  |
| 5/16             | 2,000  | 1,400                      | 4,000       | 3,400   | 2,600           | 2,500           | 5,100   | 3/4            | 8.0  |
| 3/8              | 2,800  | 2,000                      | 5,600       | 4,800   | 3,600           | 3,500           | 7,100   | 1              | 10.7 |
| 7/16             | 3,800  | 2,800                      | 7,600       | 6,600   | 5,000           | 4,800           | 9,600   | 1 1/4          | 13.6 |
| 1/2              | 5,000  | 3,800                      | 10,000      | 8,800   | 6,600           | 6,400           | 12,800  | 1 1/2          | 16.0 |
| 5/8              | 6,400  | 4,800                      | 12,800      | 11,200  | 8,400           | 8,200           | 16,400  | 2              | 21.3 |
| 3/4              | 7,800  | 5,800                      | 15,600      | 13,600  | 10,200          | 10,000          | 20,000  | 2 1/4          | 25.0 |
| 7/8              | 9,400  | 7,000                      | 18,800      | 16,400  | 12,200          | 12,000          | 24,000  | 3              | 32.0 |
| 1                | 11,200 | 8,200                      | 22,400      | 19,600  | 14,400          | 14,200          | 28,400  | 3 1/2          | 36.0 |
| 1 1/8            | 13,000 | 9,500                      | 26,000      | 22,800  | 17,000          | 16,800          | 33,600  | 4              | 42.7 |
| 1 1/4            | 15,000 | 11,000                     | 30,000      | 26,400  | 19,600          | 19,400          | 38,800  | 4 1/2          | 47.9 |
| 1 1/2            | 17,000 | 12,500                     | 34,000      | 29,800  | 22,200          | 22,000          | 44,000  | 5              | 53.6 |
| 1 3/4            | 19,000 | 14,000                     | 38,000      | 33,200  | 24,800          | 24,600          | 49,200  | 5 1/2          | 58.9 |
| 2                | 22,000 | 16,000                     | 44,000      | 38,400  | 28,400          | 28,200          | 56,400  | 6              | 64.0 |

| Block & Fairlead Loading |              | Example   |            |
|--------------------------|--------------|-----------|------------|
| Angle A                  | Block Factor | Line Pull | Block Load |
| 180                      | 0.50         | 5,000     | 2,500      |
| 150                      | 0.63         | 5,000     | 3,125      |
| 120                      | 1.00         | 5,000     | 5,000      |
| 90                       | 1.41         | 5,000     | 7,071      |
| 60                       | 1.73         | 5,000     | 8,660      |
| 30                       | 2.00         | 5,000     | 10,000     |

Formula: Block Factor x Line Pull = Block Load

| Rigging Hardware Capacities |        | WIRE ROPES     |        |
|-----------------------------|--------|----------------|--------|
| Size in inches              | WLL    | Size in inches | WLL    |
| 1/4                         | 500    | 1/4            | 1,000  |
| 5/16                        | 600    | 5/16           | 1,200  |
| 3/8                         | 1,000  | 3/8            | 2,000  |
| 7/16                        | 1,300  | 7/16           | 2,600  |
| 1/2                         | 2,000  | 1/2            | 4,000  |
| 5/8                         | 2,800  | 5/8            | 5,600  |
| 3/4                         | 3,800  | 3/4            | 7,600  |
| 7/8                         | 5,000  | 7/8            | 10,000 |
| 1                           | 6,400  | 1              | 12,800 |
| 1 1/8                       | 8,200  | 1 1/8          | 16,400 |
| 1 1/4                       | 10,000 | 1 1/4          | 20,000 |
| 1 1/2                       | 12,000 | 1 1/2          | 24,000 |
| 1 3/4                       | 14,000 | 1 3/4          | 28,000 |
| 2                           | 16,000 | 2              | 32,000 |

| Coefficients of Friction |             | D:d Ratios |       |
|--------------------------|-------------|------------|-------|
| Material                 | Coefficient | D:d        | Ratio |
| Steel on steel           | 0.15        | 20:1       | 0.15  |
| Steel on steel           | 0.15        | 15:1       | 0.15  |
| Steel on steel           | 0.15        | 10:1       | 0.15  |
| Steel on steel           | 0.15        | 8:1        | 0.15  |
| Steel on steel           | 0.15        | 6:1        | 0.15  |
| Steel on steel           | 0.15        | 5:1        | 0.15  |
| Steel on steel           | 0.15        | 4:1        | 0.15  |
| Steel on steel           | 0.15        | 3:1        | 0.15  |
| Steel on steel           | 0.15        | 2:1        | 0.15  |
| Steel on steel           | 0.15        | 1:1        | 0.15  |

| Load Weights - Calculating |        | Pounds / sq. ft. |        |
|----------------------------|--------|------------------|--------|
| Material                   | Weight | Material         | Weight |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |
| Aluminum                   | 168    | Steel plate      | 490    |

| Hitch Types            |                        | Hitch Types            |                        |
|------------------------|------------------------|------------------------|------------------------|
| 1                      | 2                      | 3                      | 4                      |
| Single Vertical        | Single Vertical        | Single Vertical        | Single Vertical        |
| 2-Leg Basket           | 2-Leg Basket           | 2-Leg Basket           | 2-Leg Basket           |
| 3-Leg Basket           | 3-Leg Basket           | 3-Leg Basket           | 3-Leg Basket           |
| 4-Leg Basket           | 4-Leg Basket           | 4-Leg Basket           | 4-Leg Basket           |
| Double Wrap Basket     | Double Wrap Basket     | Double Wrap Basket     | Double Wrap Basket     |
| Two-Single Basket      | Two-Single Basket      | Two-Single Basket      | Two-Single Basket      |
| Inverted Basket        | Inverted Basket        | Inverted Basket        | Inverted Basket        |
| Single Choker          | Single Choker          | Single Choker          | Single Choker          |
| Double Choker          | Double Choker          | Double Choker          | Double Choker          |
| Double Choker Eye-up   | Double Choker Eye-up   | Double Choker Eye-up   | Double Choker Eye-up   |
| Double Inverted Basket | Double Inverted Basket | Double Inverted Basket | Double Inverted Basket |
| Single Inverted Basket | Single Inverted Basket | Single Inverted Basket | Single Inverted Basket |

| #  | Hitch Type             | EOG   | Leg Loading | Load Control | #  |
|----|------------------------|-------|-------------|--------------|----|
| 1  | Single Vertical        | Above | One         | Poor         | 1  |
| 2  | 2-Leg Basket           | Above | Two         | Average      | 2  |
| 3  | 3-Leg Basket           | Both  | Three       | Excellent    | 3  |
| 4  | 4-Leg Basket           | Both  | Four        | Excellent    | 4  |
| 5  | Double Wrap Basket     | Both  | Two         | Good         | 5  |
| 6  | Two-Single Basket      | Both  | Two         | Good         | 6  |
| 7  | Inverted Basket        | Both  | Four        | Excellent    | 7  |
| 8  | Single Choker          | Both  | Single      | Average      | 8  |
| 9  | Double Choker          | Both  | Two         | Good         | 9  |
| 10 | Double Choker Eye-up   | Both  | Two         | Good         | 10 |
| 11 | Double Inverted Basket | Both  | Two         | Poor         | 11 |
| 12 | Single Inverted Basket | Above | Two         | Poor         | 12 |
| 13 | Double Inverted Basket | Above | Two         | Poor         | 13 |
| 14 | Single Inverted Basket | Above | Two         | Poor         | 14 |

| Mobile Crane Hand Signals  |                            | Mobile Crane Hand Signals  |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 1                          | 2                          | 3                          | 4                          |
| Crane Forward              | Crane Forward              | Crane Forward              | Crane Forward              |
| Crane Backward             | Crane Backward             | Crane Backward             | Crane Backward             |
| Crane Left                 | Crane Left                 | Crane Left                 | Crane Left                 |
| Crane Right                | Crane Right                | Crane Right                | Crane Right                |
| Crane Stop                 | Crane Stop                 | Crane Stop                 | Crane Stop                 |
| Crane Emergency Stop       | Crane Emergency Stop       | Crane Emergency Stop       | Crane Emergency Stop       |
| Crane Hoist                | Crane Hoist                | Crane Hoist                | Crane Hoist                |
| Crane Lower                | Crane Lower                | Crane Lower                | Crane Lower                |
| Crane Swing                | Crane Swing                | Crane Swing                | Crane Swing                |
| Crane Swing Stop           | Crane Swing Stop           | Crane Swing Stop           | Crane Swing Stop           |
| Crane Swing Emergency Stop | Crane Swing Emergency Stop | Crane Swing Emergency Stop | Crane Swing Emergency Stop |

| Checklists                 |                            | Overhead Crane Op. Hand Signals |                            |
|----------------------------|----------------------------|---------------------------------|----------------------------|
| 1                          | 2                          | 3                               | 4                          |
| Crane Forward              | Crane Forward              | Crane Forward                   | Crane Forward              |
| Crane Backward             | Crane Backward             | Crane Backward                  | Crane Backward             |
| Crane Left                 | Crane Left                 | Crane Left                      | Crane Left                 |
| Crane Right                | Crane Right                | Crane Right                     | Crane Right                |
| Crane Stop                 | Crane Stop                 | Crane Stop                      | Crane Stop                 |
| Crane Emergency Stop       | Crane Emergency Stop       | Crane Emergency Stop            | Crane Emergency Stop       |
| Crane Hoist                | Crane Hoist                | Crane Hoist                     | Crane Hoist                |
| Crane Lower                | Crane Lower                | Crane Lower                     | Crane Lower                |
| Crane Swing                | Crane Swing                | Crane Swing                     | Crane Swing                |
| Crane Swing Stop           | Crane Swing Stop           | Crane Swing Stop                | Crane Swing Stop           |
| Crane Swing Emergency Stop | Crane Swing Emergency Stop | Crane Swing Emergency Stop      | Crane Swing Emergency Stop |

WARNING: This poster is provided for quick reference only. OSHA regulations and ASME standards have been paraphrased. Inspectors should be well trained in rigging inspection.



# Journeyman Rigger Study Guide

**Albert A Gayle**



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