

Table H - 18 (b)
Polyester Rope Slings
[Angle of rope to vertical shown in parentheses]

| Rope Dia. Normal In (in.) | Nominal Weight per 100 ft. in (lbs.) | Minimum Breaking Strength in (lbs.) | Rated Capacity in pounds (Safety factor=9) | | | | | |
|--|---|--|--|-----------------|--------------------------------|----------|-----------|-----------|
| | | | Eye to Eye Sling | | | | | |
| | | | Vertical Hitch | Choker Hitch | Basket Hitch; Angle of Rope to | | | |
| | | | | | Horizontal | 90° (0°) | 60° (30°) | 45° (45°) |
| 1/2 | 4.7 | 3,990 | 1,200 | 600 | 2,400 | 2,100 | 1,700 | 1,200 |
| 9/16 | 6.1 | 4,845 | 1,500 | 750 | 2,900 | 2,500 | 2,100 | 1,500 |
| 5/8 | 7.5 | 5,890 | 1,800 | 900 | 3,500 | 3,100 | 2,500 | 1,800 |
| 3/4 | 10.7 | 8,075 | 2,400 | 1,200 | 4,900 | 4,200 | 3,400 | 2,400 |
| 13/16 | 12.7 | 9,405 | 2,800 | 1,400 | 5,600 | 4,900 | 4,000 | 2,800 |
| 7/8 | 15.0 | 10,925 | 3,300 | 1,600 | 6,600 | 5,700 | 4,600 | 3,300 |
| 1 | 18.0 | 13,300 | 4,000 | 2,000 | 8,000 | 6,900 | 5,600 | 4,000 |
| 1 1/16 | 20.4 | 15,200 | 4,600 | 2,300 | 9,100 | 7,900 | 6,500 | 4,600 |
| 1 1/8 | 23.7 | 17,385 | 5,200 | 2,600 | 10,500 | 9,000 | 7,400 | 5,200 |
| 1 1/4 | 27.0 | 19,950 | 6,000 | 3,000 | 12,000 | 10,500 | 8,500 | 6,000 |
| 1 5/16 | 30.5 | 22,325 | 6,700 | 3,400 | 13,500 | 11,500 | 9,500 | 6,700 |
| 1 1/2 | 38.5 | 28,215 | 8,500 | 4,200 | 17,000 | 14,500 | 12,000 | 8,500 |
| 1 5/8 | 47.5 | 34,200 | 10,500 | 5,100 | 20,500 | 18,000 | 14,500 | 10,500 |
| 1 3/4 | 57.0 | 40,850 | 12,500 | 6,100 | 24,500 | 21,000 | 17,500 | 12,500 |
| 2 | 69.0 | 49,400 | 15,000 | 7,400 | 29,500 | 25,500 | 21,000 | 15,000 |
| 2 1/8 | 80.0 | 57,950 | 17,500 | 8,700 | 35,000 | 30,100 | 24,500 | 17,500 |
| 2 1/4 | 92.0 | 65,550 | 19,500 | 9,900 | 39,500 | 34,000 | 28,000 | 19,500 |
| 2 1/2 | 107.0 | 76,000 | 23,000 | 11,500 | 45,500 | 39,500 | 32,500 | 23,000 |
| 2 5/8 | 120.0 | 85,500 | 25,500 | 13,000 | 51,500 | 44,500 | 36,500 | 25,500 |