

3. CARGO SECUREMENT

49 CFR PART 393.102

Tables to Sec. 393.102(b)(6)--Working Load Limits (WLL)

Chain WLL in pounds (kg)

Size inch (mm)	Grade 3 proof coil	Grade 4 high test	Grade 7 transport	Grade 8 alloy
$\frac{1}{4}$ (7)	1300 (590)	2600 (1180)	3150 (1430)	3500 (1590)
$\frac{5}{16}$ (8)	1900 (860)	3900 (1770)	4700 (2130)	5100 (2310)
$\frac{3}{8}$ (10)	2650 (1200)	5400 (2450)	6600 (2990)	7100 (3220)
$\frac{7}{16}$ (11)	3500 (1590)	5800 (2630)	8750 (3970)	
$\frac{1}{2}$ (13)	4500 (2040)	9200 (4170)	11300 (5130)	12000 (5440)
$\frac{5}{8}$ (16)	6900 (3130)	11500 (5220)	15800 (7170)	18100 (8210)
Chain Mark	PC	HT		T
Examples	3 30	4 40	7 70	8 80

Synthetic Webbing WLL

Width inch (mm)	WLL pounds (kg)
1- $\frac{3}{4}$ (45)	1750 (790)
2 (50)	2000 (910)
3 (75)	3000 (1360)
4(100)	4000 (1810)

Wire Rope (6 X 37, Fiber Core) WLL

Diameter inch (mm)	WLL pounds (kg)
$\frac{1}{4}$ (7)	1400 (640)
$\frac{5}{16}$ (8)	2100 (950)
$\frac{3}{8}$ (10)	3000 (1360)
$\frac{7}{16}$ (11)	4100 (1860)
$\frac{1}{2}$ (13)	5300 (2400)
$\frac{5}{8}$ (16)	8300 (3770)
$\frac{3}{4}$ (20)	10900 (4940)
$\frac{7}{8}$ (22)	16100 (7300)
1 (25)	20900 (9480)

Manila Rope WLL

Diameter inch (mm)	WLL pounds (kg)
$\frac{3}{8}$ (10)	205 (90)
$\frac{7}{16}$ (11)	265 (120)
$\frac{1}{2}$ (13)	315 (150)
$\frac{5}{8}$ (16)	465 (210)
$\frac{3}{4}$ (20)	640 (290)
1 (25)	1050 (480)

Polypropylene Fiber Rope WLL (3-Strand and 8-Strand Constructions)

Diameter inch (mm)	WLL pounds (kg)
$\frac{3}{8}$ (10)	400 (180)
$\frac{7}{16}$ (11)	525 (240)
$\frac{1}{2}$ (13)	625 (280)
$\frac{5}{8}$ (16)	925 (420)
$\frac{3}{4}$ (20)	1275 (580)
1 (25)	2100 (950)

Polyester Fiber Rope WLL (3-Strand and 8-Strand Constructions)

Diameter inch (mm)	WLL pounds (kg)
$\frac{3}{8}$ (10)	555 (250)
$\frac{7}{16}$ (11)	750 (340)
$\frac{1}{2}$ (13)	960 (440)
$\frac{5}{8}$ (16)	1500 (680)
$\frac{3}{4}$ (20)	1880 (850)
1 (25)	3300 (1500)

Nylon Rope WLL

Diameter inch (mm)	WLL pounds (kg)
$\frac{3}{8}$ (10)	278 (130)
$\frac{7}{16}$ (11)	410 (190)
$\frac{1}{2}$ (13)	525 (240)
$\frac{5}{8}$ (16)	935 (420)
$\frac{3}{4}$ (20)	1420 (640)
1 (25)	2520 (1140)

Double Braided Nylon Rope WLL

Diameter inch (mm)	WLL pounds (kg)
$\frac{3}{8}$ (10)	336 (150)
$\frac{7}{16}$ (11)	502 (230)
$\frac{1}{2}$ (13)	655 (300)
$\frac{5}{8}$ (16)	1130 (510)
$\frac{3}{4}$ (20)	1840 (830)
1 (25)	3250 (1470)

Steel Strapping WLL

Diameter inch (mm)	WLL pounds (kg)
1- $\frac{1}{4}$ x 0.029	1190 (540)
1- $\frac{1}{4}$ x 0.031	1190 (540)
1- $\frac{1}{4}$ x 0.035	1190 (540)
1- $\frac{1}{4}$ x 0.044	1690 (770)
1- $\frac{1}{4}$ x 0.050	1690 (770)
1- $\frac{1}{4}$ x 0.057	1925 (870)
2 x 0.044	2650 (1200)
2 x 0.050	2650 (1200)