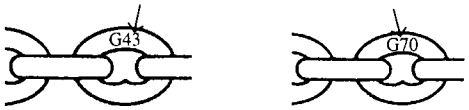
BINDER CHAIN SPECIFICATIONS

This chart indicates the minimum number of chains required to secure loads in the forward direction (0.8g deceleration)* per Federal Motor Carriers Saftey Administration, DOT Regulations; per 49CFR, Part 393 – Paragraph 393.102.

*Refer to 49CFR, Parts 392 and 393, for North American Standard for Protection Against Falling and Shifting Cargo for complete regulations

GRADE OF CHAIN	Size (in.)	Working Load Limit (lbs.)	Working Load Limit (kg.)	Minimum number of chains reguired to secure loads in forward direction by Weight of article in lbs. (kg.) 5,000 (2,270)	10,000 (4,540)	15,000 (6,800)	20,000 (9,070)	25,000 (11,340)	30,000 (13,600)	35,000 (15,870)	40,000 (18,140)	45,000 (20,410)	50,000 (22,680)
CM Grade 30 Proof Coil	5/16	1,900	862	3	5	7	9	11	13	15	17	19	22
	3/8	2,650	1,202	2	4	5	7	8	10	11	13	14	16
CM Grade 43 High Test	5/16	3,900	1,770	2	3	4	5	6	7	8	9	10	11
	3/8	5,400	2,450	1	2	3	3	4	5	6	6	7	8
CM Grade 70 Transport	1/4	3,150	1,429	2	3	4	6	7	8	9	11	12	13
	5/16	4,700	2,132	1	2	3	4	5	6	6	7	8	9
	3/8	6,600	2,994	1	2	2	3	4	4	5	5	6	7
CM Grade 80 Herc-Alloy *HA800*	7/32	2,100	953	2	4	6	8	10	12	14	16	18	20
	9/32	3,500	1,588	2	3	4	5	6	7	9	10	11	12
	5/16	4,500	2,041	1	2	3	4	5	6	7	8	9	10
	3/8	7,100	3,220	1	2	2	3	3	4	4	5	6	6
CM Grade 100 Herc-Alloy *HA1000*	7/32	2,700	1,225	2	3	5	6	8	9	11	12	14	15
	9/32	4,300	1,950	1	2	3	4	5	6	7	8	9	10
	3/8	8,800	3,992	1	1	2	2	3	3	4	4	5	5

CHAIN GRADE IDENTIFICATION†



GRADES OF CHAIN

CM Grade 30 Proof Coil Chain

CM Embossing G30
Other Embossing includes: PC, 3, 30, C, C3, M3
NOTE: Unmarked chain is to be treated as proof coil

Size (in.)	W.L.L. (lbs.)	W.L.L. (kg.)
3/16	800	363
1/4	1,300	590
5/16	1,900	862
3/8	2,650	1,202
7/16	3,700	1,678
1/2	4,500	2,041
5/8	6,900	3,130
3/4	10,600	4,808

CM Grade 43 High Test Chain

CM Embossing G43
Other Embossing includes: HT, PH, M MHT, H, M4, C4, 4, 43, G4, G40

Size (in.)	W.L.L. (lbs.)	W.L.L. (kg.)
1/4	2,600	1,180
5/16	3,900	1,770
3/8	5,400	2,450
7/16	7,200	3,266
1/2	9,200	4,173
5/8	13,000	5,897
3/4	20,200	9,163

CM Grade 70 Transport Chain

CM Embossing G70
Other Embossing includes: 7, 70, G7, M7, C7

Size (in.)	W.L.L. (lbs.)	W.L.L. (kg.)
1/4	3,150	1,429
5/16	4,700	2,132
3/8	6,600	2,994
7/16	8,750	3,969
1/2	11,300	5,126

CM Grade 80 Herc-Alloy Chain *HA800*

CM Embossing HA800
Other Embossing includes: A8A, C8, 8, TC8, CA8, G80

Size (in.)	W.L.L. (lbs.)	W.L.L. (kg.)
7/32	2,100	953
9/32	3,500	1,588
5/16	4,500	2,041
3/8	7,100	3,220
1/2	12,000	5,443
5/8	18,100	8,210
3/4	28,300	12,837

CM Grade 100 Herc-Alloy Chain *HA1000*

CM Embossing HA100
Other Embossing includes: W10, VIP, PW, H26, P10, C10, A10, GC10

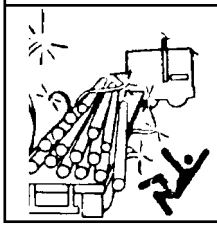
Size (in.)	W.L.L. (lbs.)	W.L.L. (kg.)
7/32	2,700	1,225
9/32	4,300	1,950
3/8	8,800	3,992
1/2	15,000	6,804
5/8	22,600	10,251
3/4	35,300	16,012

†Markings shown are for CM chain. Samples of other markings are displayed in Chain Grade boxes.

Depending on product and manufacturer, chain grade identification mark spacing varies from every link to one every 3 feet (91.5 cm).

Chain grade identification is accomplished using embossed (raised) numbers and letters. Embossing may be difficult to see on chain which has been in service and is rusty, dirty or worn. Typically, marked links contain only one marked area. Wire brushing and illumination will help improve visibility of markings.

⚠ WARNING



DEATH / INJURY CAN OCCUR FROM IMPROPER USE OR MAINTENANCE OF TIE DOWN EQUIPMENT.

TO AVOID INJURY:

- INSPECT BEFORE USE-REMOVE FROM SERVICE IF CRACKED, WORN, OR DEFORMED.
- DO NOT OVERLOAD. (LOAD BINDERS DEVELOP APPROXIMATE WORKING LOAD WITH HAND EFFORT.)
- DO NOT USE HANDLE EXTENDER ON LOAD BINDER(S).
- DO NOT USE BINDER COMPONENTS FOR OVERHEAD LIFTING.