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		Working Load Limit (lbs.) (kq.)		Minimum number of chains reguired to secure loads in forward direction by Weight of article in lbs. (kg.)										
OF CHAIN	Size			5,000 (2,270)	10,000	15,000 (6,800)	20,000	25,000 (11,340)	30,000	35,000	40,000	45,000	50,000	
	(in.)	_ ,	(kg.)		(4,540)	(0,000)	(9,070)	_ , ,	(13,600)	(15,870)	(18,140)	(20,410)	(22,680)	
CM Grade 30	5/16	1,900	862	3	5	7	9	11	13	15	17	19	22	
Proof Coil	3/8	2,650	1,202	2	4	5	7	8	10	11	13	14	16	
CM Grade 43	5/16	3,900	1,770	2	3	4	5	6	7	8	9	10	11	
High Test	3/8	5,400	2,450	1	2	3	3	4	5	6	6	7	8	
OM Overde 70	1/4	3,150	1,429	2	3	4	6	7	8	9	11	12	13	
CM Grade 70 Transport	5/16	4,700	2,132	1	2	3	4	5	6	6	7	8	9	
папороге	3/8	6,600	2,994	1	2	2	3	4	4	5	5	6	7	
	7/32	2,100	953	2	4	6	8	10	12	14	16	18	20	
CM Grade 80	9/32	3,500	1,588	2	3	4	5	6	7	9	10	11	12	
Herc-Alloy HA800	5/16	4,500	2,041	1	2	3	4	5	6	7	8	9	10	
7171000	3/8	7,100	3,220	1	2	2	3	3	4	4	5	6	6	
CM Grade 100	7/32	2,700	1,225	2	3	5	6	8	9	11	12	14	15	
Herc-Alloy	9/32	4,300	1,950	1	2	3	4	5	6	7	8	9	10	
HA1000	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		CM Grade 43 High Test Chain CM Embossing G43 Other Embossing includes: HT, PH, M MHT, H, M4, C4, 4, 43, G4, G40			CM Grade 70 Transport Chain CM Embossing G70 Other Embossing includes: 7, 70, G7, M7, C7			CM Grade 80 Herc-Alloy Chain HA800 CM Embossing HA800 Other Embossing includes: A8A, C8, 8, TC8, CA8, G80			CM Grade 100 Herc-Alloy Chain HA1000 CM Embossing HA100 Other Embossing includes: W10, VIP, PW, H26, P10, C10, A10, GC10			
Size (in.)	(lbs.)	.L.L. (kg.)	Size (in.)	(lbs.)	.L.L. (kg.)	Size (in.)	W.L.L. (lbs.) (kg.)		Size (in.)	W.L.L. (lbs.) (kg.)		Size (in.)	(lbs.)	/.L.L. (kg.)
3/16	800	363	1/4	2,600	1,180	1/4	3,150	1,429	7/32	2,100	953	7/32	2,700	1,225
1/4	1,300	590	5/16	3,900	1,770	5/16	4,700	2,132	9/32	3,500	1,588	9/32	4,300	1,950
5/16	1,900	862	3/8	5,400	2,450	3/8	6,600	2,994	5/16	4,500	2,041	3/8	8,800	3,992
3/8	2,650	1,202	7/16	7,200	3,266	7/16	8,750	3,969	3/8	7,100	3,220	1/2	15,000	6,804
7/16	3,700	1,678	1/2	9,200	4,173	1/2	11,300	5,126	1/2	12,000	5,443	5/8	22,600	10,251
1/2	4,500	2,041	5/8	13,000	5,897				5/8	18,100	8,210	3/4	35,300	16,012
5/8	6,900	3,130	3/4	20,200	9,163				3/4	28,300	12,837			
3/4	10,600	4,808												

†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.



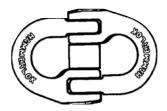
Your source for CM Tiedown Components is:



Acceptable types of repair links

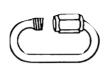


Mid-Link including Big Orange® Mid-Link



Coupling Link including Hammerlok® Coupling Link

Unsuitable for all applications



QuickLink



Repair (Lap) Link

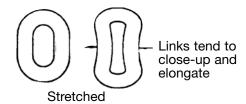


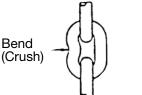
Connecting Link



Cold Shut

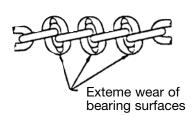
North American Uniform Out-of-Service Criteria for Chain Links and Load Binders

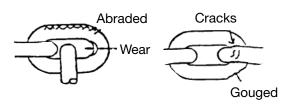




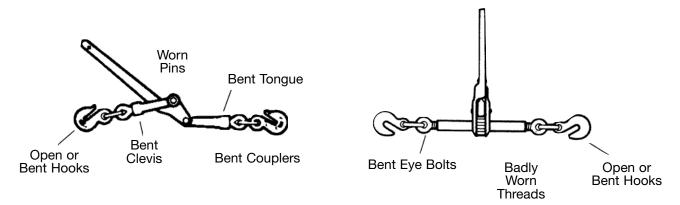








Obviously Distorted or Stretched Load Binders and Fittings





INDUSTRIAL PRODUCTS

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