

***MINIMUM # OF CHAINS REQUIRED TO SECURE LOAD IN FORWARD DIRECTION BY WEIGHT IN LBS.**

G43 HIGH TEST

SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000
1/4	2,600	2	4	5	7	8	10	11	13	14	16
5/16	3,900	2	3	4	5	6	7	8	9	10	11
3/8	5,400	1	2	3	3	4	5	6	6	7	8
1/2	9,200	1	1	2	2	3	3	4	4	4	5
5/8	13,000	1	1	1	2	2	2	3	3	3	4

G70 TRANSPORT

SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000
1/4	3,150	2	3	4	6	7	8	9	11	12	13
5/16	4,700	1	2	3	4	5	6	6	7	8	9
3/8	6,600	1	2	2	3	4	4	5	5	6	7
7/16	8,750	1	1	2	2	3	3	4	4	5	5
1/2	11,300	1	1	2	2	2	3	3	3	4	4
5/8	15,800	1	1	1	2	2	2	2	3	3	3

G80 ALLOY

SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000
9/32	3,500	2	3	4	5	6	7	8	10	11	12
5/16	4,500	1	2	3	4	5	6	7	8	8	9
3/8	7,100	1	2	2	3	3	4	4	5	6	6
1/2	12,000	1	1	2	2	2	2	3	3	3	4
5/8	18,100	1	1	1	1	2	2	2	2	2	3

G100 ALLOY

SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000
9/32	4,300	1	2	3	4	5	6	7	8	9	10
5/16	5,700	1	2	3	3	4	5	5	6	7	8
3/8	8,800	1	1	2	2	3	3	4	4	5	5
1/2	15,000	1	1	1	2	2	2	2	3	3	3
5/8	22,600	1	1	1	1	1	2	2	2	2	2

G120 ALLOY

SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000
9/32	5,200	1	2	3	4	4	5	6	7	7	8
5/16	6,600	1	2	2	3	4	4	5	5	6	7
3/8	10,600	1	1	2	2	2	3	3	4	4	4
1/2	18,000	1	1	1	1	2	2	2	2	2	3

*Number of "Required Chains" value is calculated by $((0.8 \times \text{load value}) / (\text{Working Load Limit}))$ and rounding up to the nearest whole number

This chart indicates the minimum number of chains required to secure loads in the forward direction (0.8g deceleration)* per Federal Motor Carriers Safety 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.

This material is intended for reference only. Check Federal Motor Carriers Safety Administration Rules to review current tiedown procedures. www.fmcsa.dot.gov/regulations

Like many rules and regulations, it can be difficult to decipher the guidelines that enforcement will follow. We hope this information will cause you to review the current procedures.