



GENERAL INFORMATION CHAIN REQUIREMENTS

The general guidelines for securing wheeled vehicles on chain-equipped cars by diameter of chains are as follows:

4 chains 3/8-inch with a maximum breaking strength of 36,000 LBS. for vehicles weighing less than 16,000 pounds.

8 chains 3/8-inch with a maximum breaking strength of 36,000 LBS. for vehicles weighing 16,000 pounds to 25,000 pounds.

4 chains 1/2-inch with a maximum breaking strength of 55,000 LBS. for vehicles weighing 25,000 pounds to 40,000 pounds.

8 chains 1/2-inch with a maximum breaking strength of 55,000 LBS. for vehicles weighing 40,000 pounds to 55,000 pounds.

12 chains 1/2-inch with a maximum breaking strength of 55,000 LBS. for vehicles weighing 55,000 pounds to 80,000 pounds.

However, the user must realize that it yields the least number of chains required. If the resulting number of chains required does not provide for the symmetrical configuration, add chains such that each tie-down has the same number. For example, if the formulated number of chains required is 9, use 12 to establish symmetry about the four tie-down provisions.

VEHICLE SUMMARY TIE-DOWN TABLE

VEHICLE TYPE	VEHICLE WEIGHT (LBS.)	ALLOY STEEL CHAIN		
		Dia (in.)	Minimum Breaking Strength (LBS.)	Number of Chains per vehicle
AHSVS	26,500	1/2	55,000	4
AHSVS 16 Ton Palletized Loading	54,120	1/2	55,000	8
Ambulance 4X4	15,013	3/8	36,000	4
APC M113 family including M548 and M577	19,775	1/2	55,000	4
ATV	851	3/8	36,000	4
Bison	28,459	3/8	36,000	4
Bison AMB	27,999	3/8	36,000	4
Bison C31	28,660	3/8	36,000	4
Bison MRT	32,066	1/2	55,000	4
BV-206	13,977	3/8	36,000	4
COUGAR Engineer rapid response	64,000	1/2	55,000	12
COUGAR	52,000	1/2	55,000	8
Cargo Body SEV SEC SCRN 6ft	19,181	3/8	36,000	8
Coyote MTD	32,827	1/2	55,000	4
Crane Wheeled MTD DED All Terrain 4X4 hydraulic Boom	53,612	1/2	55,000	8
Crew Cab 1.5T 4X4	6,113 Empty	3/8	36,000	4



VEHICLE TYPE	VEHICLE WEIGHT (LBS.)	ALLOY STEEL CHAIN		
		Dia (in.)	Minimum Breaking Strength (LBS.)	Number of Chains per vehicle
Dump Truck HD	33,863 Empty	1/2	55,000	4
Excavator Tracked 6.4M Digging Bucket	44,313	1/2	55,000	8
Excavator wheeled with Digging Bucket	30,000	1/2	55,000	8
Forklift 4X4 9,000 LBS.	33,691	1/2	55,000	4
Grader Road Motorized	30,159	1/2	55,000	4
HLVW 10TM with Winch and Crane	30,810 Empty	1/2	55,000	4
HLVW Cargo SCR N 10TM	29,542 Empty	1/2	55,000	4
HLVW PLS 16TM	35,274	1/2	55,000	4
HLVW Refueller (FAR)	29,983 Empty	1/2	55,000	4
HLVW Wrecker	42,990 Empty	1/2	55,000	8
Husky MRT	23,589	3/8	36,000	4
Husky MKIII	19,140	3/8	36,000	8
Husky towing	19,140	3/8	36,000	8
Kitchen trailer MTD 1.5TM	5,631 Empty	3/8	36,000	4



VEHICLE TYPE	VEHICLE WEIGHT (LBS.)	ALLOY STEEL CHAIN		
		Dia (in.)	Minimum Breaking Strength (LBS.)	Number of Chains per vehicle
LAV III APC CP	38,000	1/2	55,000	8
LAV III Engineer APC	42,000	1/2	55,000	8
LAV III ICS	42,000	1/2	55,000	8
Leopard C1	93,696	1/2	55,000	16
Leopard C2	93,696	1/2	55,000	16
Leopard A6M	143000	1/2	55,000	20
LHS	66,039	1/2	55,000	12
LHS Trailer	34,118	1/2	55,000	8
LSVW 1.5TM	11,574	3/8	36,000	4
LSVW 1.5TM Ambulance SEV	11,574	3/8	36,000	4
LSVW 1.5TM DES	11,575	3/8	36,000	4
LSVW 1.5TM LCSS HQ LAN Server	11,618	3/8	36,000	4
LSVW 1.5TM MCT with S805 Shelter	12,037	3/8	36,000	4
LSVW 1.5TM Radio Node	11,574	3/8	36,000	4
LUVW 1TM 4X4 MILCOT Basic	8,223	3/8	36,000	4
LUVW 3/4 C and R	10,251	3/8	36,000	4
LUVW 3/4T	10,252	3/8	36,000	4
M777 A1	8,700	1/2	55,000	6



VEHICLE TYPE	VEHICLE WEIGHT (LBS.)	ALLOY STEEL CHAIN		
		Dia (in.)	Minimum Breaking Strength (LBS.)	Number of Chains per vehicle
Maintline 4X4	37,077	1/2	55,000	4
MIV Buffalo	83,824	1/2	55,000	16
MLVW 2.5TM	14,349 Empty	1/2	55,000	4
MRR	22,000	3/8	36,000	8
MRT	56,070	1/2	55,000	12
MSVS MILCOT	27,101	1/2	55,000	4
PDB and WHEEL TRUCK	10,000	3/8	36,000	4
RG31 MK3	23,386	3/8	36,000	4
Roller Towed Pneum Tires Hopper 13 WHL	53,196	1/2	55,000	8
Roller Towed Sheep foot Type SGL/DBL Roller	6,736	3/8	36,000	4
Roller Towed Vibrating DED Smooth Faced	12,980	3/8	36,000	4
Semi-trailer attached to prime mover	32,070	1/2	55,000	8
Scoop Loader	30,159	1/2	55,000	4
Scoop Loader type Wheeled 4X4 Skid Steer	7,068	3/8	36,000	4
Semi Trailer Bull Hauler Fuel disp 32000L	15,256 Empty	3/8	36,000	4



Semi trailer Low Bed 35TM Variable deck	22,300 Empty	3/8	36,000	8
VEHICLE TYPE	VEHICLE WEIGHT (LBS.)	ALLOY STEEL CHAIN		
		Dia (in.)	Minimum Breaking Strength (LBS.)	Number of Chains per vehicle
Semi Trailer Low Bed 45TM 24Ft deck	24,471 Empty	3/8	36,000	8
Semi Trailer Low bed 45T 24ft Deck REM ADJ Gooseneck	24,471 Empty	3/8	36,000	8
Snow blower Self Contained	11,475	3/8	36,000	4
Spreader Sandbagger	6,420 Empty	3/8	36,000	4
Towed artillery gun	2,440	3/8	36,000	4
Trailer Tank 2.5T Self contained FAR (TFAR)	5,199 Empty	3/8	36,000	4
T-LAV M577	30,999	1/2	55,000	12
T-LAV Maint Vehicle (Engineer)	40,124	1/2	55,000	12
T-LAV Maint Vehicle with Turret (Engineer)	36,156	1/2	55,000	12
Trackway Surfacing Outfit Vehicle Mounted	33,523	1/2	55,000	8
Tractor Full Track Low Speed 152to250 Net FLYW	44,520	1/2	55,000	8
Tractor Wheeled Industrial High Mobility 4X4	59,730	1/2	55,000	8
Trailer 3.5T 2WHL	10,121	3/8	36,000	4



M353 w/Hydraulic Tool System				
VEHICLE TYPE	VEHICLE WEIGHT (LBS.)	ALLOY STEEL CHAIN		
		Dia (in.)	Minimum Breaking Strength (LBS.)	Number of Chains per vehicle
Trailer cargo 850LBS.	1,477 Empty	3/8	36,000	4
Trailer Cargo 4 wheeled /ski Amph 1000Kg Payload	2,403 Empty	3/8	36,000	4
Trailer Cargo Combat Engineer ATV Trailer	1,650	3/8	36,000	4
Trailer Flatbed Beavertail Tilt Deck 30K LBS.	7,785 Empty	3/8	36,000	4
Trailer Flatbed Beavertail 40K LBS.	9,800 Empty	3/8	36,000	4
Trailer PLS Full 15ft	6,614 Empty	3/8	36,000	4
Trailer Tank water 1.5TM	2,403 Empty	3/8	36,000	4
Truck Multi Stop Delivery 2.0T	5,190 Empty	3/8	36,000	4
Truck Tractor 50K LBS.	27,337 Empty	1/2	55,000	4