

Table No. 17.—Galvanized-wire-rope Purchases.

TABLE OF SAFE-WORKING LOADS FOR A PURCHASE CARRYING THE LOAD ON FIVE PARTS (DIAGRAM NO. 13).

(Ropes are to be equal to the breaking-loads specified in Appendix III.)

Size of Rope.		Strands and Wires 6/19.		Strands and Wires 6/24.		Strands and Wires 6/37.	
Circumference, in Inches.	Diameter, in Inches (approx.).	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.
1	5/16	T. cwt. qr. lb.	5,413	T. cwt. qr. lb.	4,853	T. cwt. qr. lb.	5,600
1 1/8	3/8	2 8 1 9	6,533	2 3 1 9	6,533	2 10 0 0	6,906
1 1/4	13/32	2 18 1 9	8,400	2 18 1 9	8,026	3 1 2 18	7,466
1 1/2	7/16	3 15 0 0	9,706	3 11 2 18	9,520	3 6 2 18	9,333
1 3/4	15/32	4 6 2 18	11,946	4 5 0 0	11,200	4 3 1 9	11,760
1 7/8	1/2	5 6 2 18	14,373	5 0 0 0	12,880	5 5 0 0	13,440
1 5/8	9/16	6 8 1 9	16,053	5 15 0 0	15,866	6 0 0 0	15,866
1 3/2	19/32	7 3 1 9	18,853	7 1 2 18	18,106	7 1 2 18	18,293
2	5/8	8 8 1 9	21,840	8 1 2 18	20,346	8 3 1 9	21,093
2 1/8	11/16	9 15 0 0	24,080	9 1 2 18	22,773	9 8 1 9	24,080
2 1/4	23/32	10 15 0 0	28,746	10 3 1 9	26,506	10 15 0 0	27,066
2 1/2	3/4	12 16 2 18	31,173	11 16 2 18	29,306	12 1 2 18	30,426
2 3/4	13/16	13 18 1 9	33,600	13 1 2 18	32,107	13 11 2 18	33,040
2 7/8	27/32	15 0 0 0	36,213	14 6 2 19	35,093	14 15 0 0	37,520
2 5/8	7/8	16 3 1 9	40,506	15 13 1 9	38,266	16 15 0 0	41,440
2 3/2	29/32	18 1 2 18	44,800	17 1 2 18	41,440	18 10 0 0	44,800
2 7/4	15/16	20 0 0 0	47,786	18 10 0 0	46,666	20 0 0 0	49,653
3		21 6 2 18		20 16 2 18		22 3 1 9	

Table No. 18.—Galvanized-wire-rope Purchases.

TABLE OF SAFE-WORKING LOADS FOR A PURCHASE CARRYING THE LOAD ON SIX PARTS (DIAGRAM NO. 14).

(Ropes are to be equal to the breaking-loads specified in Appendix III.)

Size of Rope.		Strands and Wires 6/19.		Strands and Wires 6/24.		Strands and Wires 6/37.	
Circumference, in Inches.	Diameter, in Inches (approx.).	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.
1	5/16	T. cwt. qr. lb.	6,496	T. cwt. qr. lb.	5,824	T. cwt. qr. lb.	6,720
1 1/8	3/8	2 18 0 0	7,840	2 12 0 0	7,840	3 0 0 0	8,288
1 1/4	13/32	3 10 0 0	10,080	3 10 0 0	9,632	3 14 0 0	8,960
1 1/2	7/16	4 10 0 0	11,648	4 6 0 0	11,424	4 0 0 0	11,200
1 3/4	15/32	5 4 0 0	14,336	5 2 0 0	13,440	5 0 0 0	14,112
1 5/8	1/2	6 8 0 0	17,248	6 0 0 0	15,456	6 6 0 0	16,128
1 3/2	9/16	7 14 0 0	19,264	6 18 0 0	19,040	7 4 0 0	19,040
1 7/8	19/32	8 12 0 0	22,624	8 10 0 0	21,728	8 10 0 0	21,952
2	5/8	10 2 0 0	26,208	9 14 0 0	24,416	9 16 0 0	25,312
2 1/8	11/16	11 14 0 0	28,896	10 18 0 0	27,328	11 6 0 0	28,896
2 1/4	23/32	12 18 0 0	34,496	12 4 0 0	31,808	12 18 0 0	32,480
2 1/2	3/4	15 8 0 0	37,408	14 4 0 0	35,168	14 10 0 0	36,512
2 3/4	13/16	16 14 0 0	40,320	15 14 0 0	38,528	16 6 0 0	39,648
2 7/8	27/32	18 0 0 0	43,456	17 4 0 0	42,112	17 14 0 0	45,024
2 5/8	7/8	19 8 0 0	48,608	18 16 0 0	45,920	20 2 0 0	49,728
2 3/2	29/32	21 14 0 0	53,760	20 10 0 0	49,728	22 4 0 0	53,760
2 7/4	15/16	24 0 0 0	57,344	22 4 0 0	56,000	24 0 0 0	59,584
3		25 12 0 0		25 0 0 0		26 12 0 0	