

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 8 1 9	6,533	2 10 0 0	6,906
1 1/4	13/32	3 15 0 0	8,400	3 11 2 18	8,026	3 6 2 18	7,466
1 1/2	7/16	4 6 2 18	9,706	4 5 0 0	9,520	4 3 1 9	9,333
1 3/4	15/32	5 6 2 18	11,946	5 0 0 0	11,200	5 5 0 0	11,760
1 7/8	1/2	6 8 1 9	14,373	5 15 0 0	12,880	6 0 0 0	13,440
2	9/16	7 3 1 9	16,053	7 1 2 18	15,866	7 1 2 18	15,866
2 1/8	19/32	8 8 1 9	18,853	8 1 2 18	18,106	8 3 1 9	18,293
2 1/4	5/8	9 15 0 0	21,840	9 1 2 18	20,346	9 8 1 9	21,093
2 1/2	11/16	10 15 0 0	24,080	10 3 1 9	22,773	10 15 0 0	24,080
2 3/4	23/32	12 16 2 18	28,746	11 16 2 18	26,506	12 1 2 18	27,066
2 7/8	3/4	13 18 1 9	31,173	13 1 2 18	29,306	13 11 2 18	30,426
3	13/16	15 0 0 0	33,600	14 6 2 19	32,107	14 15 0 0	33,040
	27/32	16 3 1 9	36,213	15 13 1 9	35,093	16 15 0 0	37,520
	7/8	18 1 2 18	40,506	17 1 2 18	38,266	18 10 0 0	41,440
	29/32	20 0 0 0	44,800	18 10 0 0	41,440	20 0 0 0	44,800
	15/16	21 6 2 18	47,786	20 16 2 18	46,666	22 3 1 9	49,653

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	3 10 0 0	7,840	3 10 0 0	7,840	3 14 0 0	8,288
1 1/4	13/32	4 10 0 0	10,080	4 6 0 0	9,632	4 0 0 0	8,960
1 1/2	7/16	5 4 0 0	11,648	5 2 0 0	11,424	5 0 0 0	11,200
1 3/4	15/32	6 8 0 0	14,336	6 0 0 0	13,440	6 6 0 0	14,112
1 7/8	1/2	7 14 0 0	17,248	6 18 0 0	15,456	7 4 0 0	16,128
2	9/16	8 12 0 0	19,264	8 10 0 0	19,040	8 10 0 0	19,040
2 1/8	19/32	10 2 0 0	22,624	9 14 0 0	21,728	9 16 0 0	21,952
2 1/4	5/8	11 14 0 0	26,208	10 18 0 0	24,416	11 6 0 0	25,312
2 1/2	11/16	12 18 0 0	28,896	12 4 0 0	27,328	12 18 0 0	28,896
2 3/4	23/32	15 8 0 0	34,496	14 4 0 0	31,808	14 10 0 0	32,480
2 7/8	3/4	16 14 0 0	37,408	15 14 0 0	35,168	16 6 0 0	36,512
3	13/16	18 0 0 0	40,320	17 4 0 0	38,528	17 14 0 0	39,648
	27/32	19 8 0 0	43,456	18 16 0 0	42,112	20 2 0 0	45,024
	7/8	21 14 0 0	48,608	20 10 0 0	45,920	22 4 0 0	49,728
	29/32	24 0 0 0	53,760	22 4 0 0	49,728	24 0 0 0	53,760
	15/16	25 12 0 0	57,344	25 0 0 0	56,000	26 12 0 0	59,584