

2:1 CARTRIDGES USING FRACTIONAL THREADED ROD AND REBAR

TABLE 1: Number of anchors installed using a 16 oz. (473 ml) cartridge with FRACTIONAL THREADED ROD¹

Threaded Rod Size in.	Drill Bit in.	Embedment Depth in. (mm)																
		2 (51)	3 (76)	4 (102)	5 (127)	6 (152)	7 (178)	8 (203)	9 (229)	10 (254)	11 (279)	12 (305)	13 (330)	14 (356)	15 (381)	16 (406)	17 (432)	18 (457)
3/8	7/16	132	88	66	53	44	37	33	29	26	24	22	20	18	17	16	15	14
1/2	9/16	94	62	47	37	31	26	23	20	18	17	15	14	13	12	11	11	10
5/8	3/4	47	31	23	19	15	13	11	10	9	8	7	7	6	6	5	5	5
3/4	7/8	38	25	19	15	12	11	9	8	7	7	6	5	5	5	4	4	4
7/8	1	32	21	16	12	10	9	8	7	6	5	5	4	4	4	4	3	3
1	1 1/8	26	17	13	10	8	7	6	5	5	4	4	4	3	3	3	3	2
1 1/4	1 3/8	20	13	10	8	6	5	5	4	4	3	3	3	2	2	2	2	2
1 1/2	1 5/8	26	17	13	10	8	7	6	5	5	4	4	4	3	3	3	3	2

TABLE 2: Number of anchors installed using a 16 oz. (473 ml) cartridge with FRACTIONAL REBAR¹

Rebar Size	Drill Bit in.	Embedment Depth in. (mm)																
		2 (51)	3 (76)	4 (102)	5 (127)	6 (152)	7 (178)	8 (203)	9 (229)	10 (254)	11 (279)	12 (305)	13 (330)	14 (356)	15 (381)	16 (406)	17 (432)	18 (457)
#3	1/2	113	75	56	45	37	32	28	25	22	20	18	17	16	15	14	13	12
#4	5/8	88	58	44	35	29	25	22	19	17	16	14	13	12	11	11	10	9
#5	3/4	71	47	35	28	23	20	17	15	14	12	11	10	10	9	8	8	7
#6	7/8	56	37	28	22	18	16	14	12	11	10	9	8	8	7	7	6	6
#7	1	49	33	24	19	16	14	12	11	9	9	8	7	7	6	6	5	5
#8	1 1/8	42	28	21	17	14	12	10	9	8	7	7	6	6	5	5	5	4
#9	1 3/8	21	14	10	8	7	6	5	4	4	3	3	3	3	2	2	2	2
#10	1 1/2	20	13	10	8	6	5	5	4	4	3	3	3	2	2	2	2	2

TABLE 3: Number of anchors installed using a 31.8 oz. (940 ml) cartridge with FRACTIONAL THREADED ROD¹

Threaded Rod Size in.	Drill Bit in.	Embedment Depth in. (mm)																
		2 (51)	3 (76)	4 (102)	5 (127)	6 (152)	7 (178)	8 (203)	9 (229)	10 (254)	11 (279)	12 (305)	13 (330)	14 (356)	15 (381)	16 (406)	17 (432)	18 (457)
3/8	7/16	279	186	139	111	93	79	69	62	55	50	46	42	39	37	34	32	31
1/2	9/16	197	131	98	79	65	56	49	43	39	35	32	30	28	26	24	23	21
5/8	3/4	99	66	49	39	33	28	24	22	19	18	16	15	14	13	12	11	11
3/4	7/8	80	53	40	32	26	23	20	17	16	14	13	12	11	10	10	9	8
7/8	1	67	45	33	27	22	19	16	15	13	12	11	10	9	9	8	7	7
1	1 1/8	55	36	27	22	18	15	13	12	11	10	9	8	7	7	6	6	6
1 1/4	1 3/8	42	28	21	16	14	12	10	9	8	7	7	6	6	5	5	4	4
1 1/2	1 5/8	54	36	27	21	18	15	13	12	10	9	9	8	7	7	6	6	6

TABLE 4: Number of anchors installed using a 31.8 oz. (940 ml) cartridge with FRACTIONAL REBAR¹

Rebar Size	Drill Bit in.	Embedment Depth in. (mm)																
		2 (51)	3 (76)	4 (102)	5 (127)	6 (152)	7 (178)	8 (203)	9 (229)	10 (254)	11 (279)	12 (305)	13 (330)	14 (356)	15 (381)	16 (406)	17 (432)	18 (457)
#3	1/2	238	159	119	95	79	68	59	53	47	43	39	36	34	31	29	28	26
#4	5/8	185	123	92	74	61	53	46	41	37	33	30	28	26	24	23	21	20
#5	3/4	149	99	74	59	49	42	37	33	29	27	24	23	21	19	18	17	16
#6	7/8	119	79	59	47	39	34	29	26	23	21	19	18	17	15	14	14	13
#7	1	104	69	52	41	34	29	26	23	20	18	17	16	14	13	13	12	11
#8	1 1/8	89	59	44	35	29	25	22	19	17	16	14	13	12	11	11	10	9
#9	1 3/8	44	29	22	17	14	12	11	9	8	8	7	6	6	5	5	5	4
#10	1 1/2	42	28	21	17	14	12	10	9	8	7	7	6	6	5	5	5	4

1. Estimates based on theoretical calculations using hammer drilled holes, including waste factor for nozzle and cartridge balancing. To add a typical usage Waste Factor (WF), Multiply the number of anchors reported in chart by 1-WF (Example: Waste factor of 15% = Number of anchors x (1-0.15)). Actual results may vary and should be used for estimating purposes only.