

10:1 CARTRIDGES USING FRACTIONAL THREADED ROD AND REBAR

TABLE 1: Number of anchors installed using a 10.1 oz. (298 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	84	56	42	33	28	24	21	18	16	15	14	13	12	11	10	9	9
1/2	9/16	60	40	30	24	20	17	15	13	12	10	10	9	8	8	7	7	6
5/8	3/4	30	20	15	12	10	8	7	6	6	5	5	4	4	4	3	3	3
3/4	7/8	24	16	12	9	8	7	6	5	4	4	4	3	3	3	3	2	2
7/8	1	20	13	10	8	6	5	5	4	4	3	3	3	2	2	2	2	2
1	1 1/8	16	11	8	6	5	4	4	3	3	3	2	2	2	2	2	1	1
1 1/4	1 3/8	12	8	6	5	4	3	3	2	2	2	2	1	1	1	1	1	1

TABLE 2: Number of anchors installed using a 10.1 oz. (298 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	72	48	36	29	24	20	18	16	14	13	12	11	10	9	9	8	8
#4	5/8	56	37	28	22	18	16	14	12	11	10	9	8	8	7	7	6	6
#5	3/4	45	30	22	18	15	13	11	10	9	8	7	7	6	6	5	5	5
#6	7/8	36	24	18	14	12	10	9	8	7	6	6	5	5	4	4	4	4
#7	1	31	21	15	12	10	9	7	7	6	5	5	4	4	4	3	3	3
#8	1 1/8	27	18	13	10	9	7	6	6	5	4	4	4	3	3	3	3	3
#9	1 3/8	13	9	6	5	4	3	3	3	2	2	2	2	1	1	1	1	1
#10	1 1/2	13	8	6	5	4	3	3	2	2	2	2	2	1	1	1	1	1

TABLE 3: Number of anchors installed using a 28 oz. (828 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	254	169	127	101	84	72	63	56	50	46	42	39	36	33	31	29	28
1/2	9/16	180	120	90	72	60	51	45	40	36	32	30	27	25	24	22	21	20
5/8	3/4	90	60	45	36	30	25	22	20	18	16	15	13	12	12	11	10	10
3/4	7/8	73	49	36	29	24	21	18	16	14	13	12	11	10	9	9	8	8
7/8	1	61	40	30	24	20	17	15	13	12	11	10	9	8	8	7	7	6
1	1 1/8	50	33	25	20	16	14	12	11	10	9	8	7	7	6	6	5	5
1 1/4	1 3/8	38	25	19	15	12	10	9	8	7	6	6	5	5	5	4	4	4

TABLE 4: Number of anchors installed using a 28 oz. (828 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	217	144	108	86	72	62	54	48	43	39	36	33	31	28	27	25	24
#4	5/8	169	112	84	67	56	48	42	37	33	30	28	26	24	22	21	19	18
#5	3/4	136	90	68	54	45	38	34	30	27	24	22	20	19	18	17	16	15
#6	7/8	109	72	54	43	36	31	27	24	21	19	18	16	15	14	13	12	12
#7	1	95	63	47	38	31	27	23	21	19	17	15	14	13	12	11	11	10
#8	1 1/8	81	54	40	32	27	23	20	18	16	14	13	12	11	10	10	9	9
#9	1 3/8	40	26	20	16	13	11	10	8	8	7	6	6	5	5	5	4	4
#10	1 1/2	38	25	19	15	12	11	9	8	7	7	6	5	5	5	4	4	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.