

ULTRABOND HYB-2CC CARTRIDGES USING FRACTIONAL THREADED ROD AND REBAR

TABLE 1: Number of anchors installed using a 9.5 oz. (281 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	77	51	38	31	25	22	19	17	15	14	12	11	11	10	9	9	8
1/2	9/16	55	36	27	22	18	15	13	12	11	10	9	8	7	7	6	6	6
5/8	3/4	27	18	13	11	9	7	6	6	5	5	4	4	3	3	3	3	3
3/4	7/8	22	15	11	9	7	6	5	5	4	4	3	3	3	3	2	2	2
7/8	1	18	12	9	7	6	5	4	4	3	3	3	2	2	2	2	2	2
1	1 1/8	15	10	7	6	5	4	3	3	3	2	2	2	2	2	1	1	1
1 1/4	1 3/8	11	7	5	4	3	3	2	2	2	2	1	1	1	1	1	1	1

TABLE 2: Number of anchors installed using a 9.5 oz. (281 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	66	44	33	26	22	18	16	14	13	12	11	10	9	8	8	7	7
#4	5/8	51	34	25	20	17	14	12	11	10	9	8	7	7	6	6	6	5
#5	3/4	41	27	20	16	13	11	10	9	8	7	6	6	5	5	5	4	4
#6	7/8	33	22	16	13	11	9	8	7	6	6	5	5	4	4	4	3	3
#7	1	29	19	14	11	9	8	7	6	5	5	4	4	4	3	3	3	3
#8	1 1/8	24	16	12	9	8	7	6	5	4	4	4	3	3	3	3	2	2
#9	1 3/8	12	8	6	4	4	3	3	2	2	2	2	1	1	1	1	1	1
#10	1 1/2	11	7	5	4	3	3	2	2	2	2	1	1	1	1	1	1	1

TABLE 3: Number of anchors installed using a 13.9 oz. (410 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	119	79	59	47	39	34	29	26	23	21	19	18	17	15	14	14	13
1/2	9/16	84	56	42	33	28	24	21	18	16	15	14	13	12	11	10	9	9
5/8	3/4	42	28	21	17	14	12	10	9	8	7	7	6	6	5	5	5	4
3/4	7/8	34	23	17	13	11	9	8	7	6	6	5	5	4	4	4	4	3
7/8	1	28	19	14	11	9	8	7	6	5	5	4	4	4	3	3	3	3
1	1 1/8	23	15	11	9	7	6	5	5	4	4	3	3	3	3	2	2	2
1 1/4	1 3/8	18	12	9	7	6	5	4	4	3	3	3	2	2	2	2	2	2

TABLE 4: Number of anchors installed using a 13.9 oz. (410 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	102	68	51	40	34	29	25	22	20	18	17	15	14	13	12	12	11
#4	5/8	79	53	39	31	26	22	19	17	15	14	13	12	11	10	9	9	8
#5	3/4	64	42	32	25	21	18	16	14	12	11	10	9	9	8	8	7	7
#6	7/8	51	34	25	20	17	14	12	11	10	9	8	7	7	6	6	6	5
#7	1	44	29	22	17	14	12	11	9	8	8	7	6	6	5	5	5	4
#8	1 1/8	38	25	19	15	12	10	9	8	7	6	6	5	5	5	4	4	4
#9	1 3/8	19	12	9	7	6	5	4	4	3	3	3	2	2	2	2	2	2
#10	1 1/2	18	12	9	7	6	5	4	4	3	3	3	2	2	2	2	2	2

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)).

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TABLE 5: Number of anchors installed using a **27.9 oz. (825 ml)** cartridge with **FRACTIONAL THREADED ROD**¹

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	253	168	126	101	84	72	63	56	50	46	42	38	36	33	31	29	28
1/2	9/16	179	119	89	71	59	51	44	39	35	32	29	27	25	23	22	21	19
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	48	36	29	24	20	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 6: Number of anchors installed using a **27.9 oz. (825 ml)** cartridge with **FRACTIONAL REBAR**¹

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	216	144	108	86	72	61	54	48	43	39	36	33	30	28	27	25	24
#4	5/8	168	112	84	67	56	48	42	37	33	30	28	25	24	22	21	19	18
#5	3/4	135	90	67	54	45	38	33	30	27	24	22	20	19	18	16	15	15
#6	7/8	108	72	54	43	36	31	27	24	21	19	18	16	15	14	13	12	12
#7	1	94	63	47	37	31	27	23	21	18	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.