

PRE-ASSEMBLED ANCHOR RODS

PAR series

The PAR is a high-uplift, cast-in-place anchor bolt- perfect for rod tie-downs and shear walls. Preassembled with a plate washer and nuts, it's fully assembled and ready to install.

Materials: Standard Strength – ASTM A36 steel, also conforms to ASTM F1554, Grade 36

High Strength – ASTM A139 B7

Finish: None. May be ordered in HDG.

Options: Available in diameters from 1/2" to 1-1/4" and lengths from 12" to 36" in 6" increments.

PAR Stock Number Naming Key

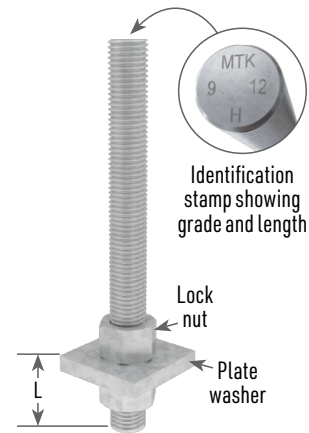
PAR9H-12

Anchor rod series Diameter and Grade Length (12", 18", 24", 30" or 36")

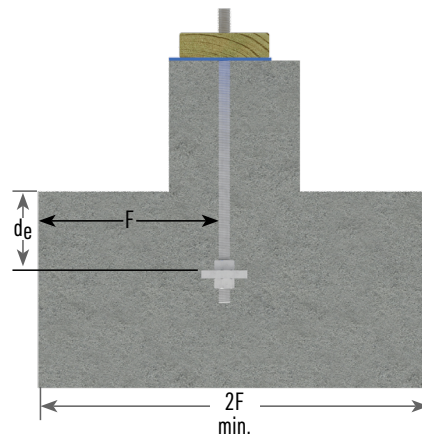
The first set of numerals in the PAR Stock number indicate diameter in 1/8" increments (i.e. 4=4/8" or 1/2", 9 = 9/8 or 1-1/8"). The addition of an "H" indicates a high-strength rod. The last 2 numerals in the PAR Stock number indicate length.

Installation:

- Follow all edge distance and embedment depth requirements per allowable load table.



PAR9H-12 assembly



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PAR series

Diameter (in)	MiTek ⁵ Stock No.	Ref. No.	PlateWasher		L (in)	2,500 psi Concrete				3,000 psi Concrete			
			Hole Dia. (in)	Washer Size (in)		Embedment Depth (in)	Edge Distance (in)	Anchor Tension ¹ (lb)		Embedment Depth (in)	Edge Distance (in)	Anchor Tension ¹ (lb)	
								d _e ^{2,4}	F ³			ASD	LRFD
Wind Design SDC A & B													
1/2	PAR4XX	PAB4	11/16	1/2 x 2 x 2	1-1/8	4-1/2	7	4,270	6,405	4	6	4,270	6,405
5/8	PAR5XX	PAB5	11/16	1/2 x 2 x 2	1-3/8	4	6	4,030	6,720	4	6	4,415	7,360
						6	9	6,675	10,010	5-1/2	8-1/2	6,675	10,010
3/4	PAR6XX	PAB6	15/16	1/2 x 2 x 2	1-1/2	5-1/2	8-1/2	6,500	10,835	5	7-1/2	6,175	10,290
						7-1/2	11-1/2	9,610	14,415	7	10-1/2	9,610	14,415
7/8	PAR7XX	PAB7	15/16	1/2 x 3 x 3	1-5/8	6	9	7,405	12,345	5-1/2	8-1/2	7,120	11,870
						9	13-1/2	13,080	19,620	8-1/2	13	13,080	19,620
	PAR7HXX	PAB7H	15/16	1/2 x 3 x 3	1-5/8	9	13-1/2	13,610	22,680	8-1/2	13	13,680	22,805
1	PAR8XX	PAB8	1-1/16	1/2 x 3 x 3	1-7/8	14	21	27,060	40,590	13-1/2	20-1/2	27,060	40,590
						8	12	11,405	19,005	7-1/2	11-1/2	11,340	18,900
						10-1/2	16	17,080	25,625	10	15	17,080	25,625
						10-1/2	16	17,150	28,580	10	15	17,460	29,100
1-1/8	PAR9XX	PAB9	1-5/16	1/2 x 3 x 3	2	16-1/2	25	35,345	53,015	15-1/2	23-1/2	35,345	53,015
						9	13-1/2	13,610	22,680	8	12	12,495	20,820
1-1/4	PAR10XX	PAB10	1-5/16	1/2 x 3 x 3	2-1/4	12-1/2	19	21,620	32,430	12	18	21,620	32,430
						14	21	26,690	40,035	13-1/2	20-1/2	26,690	40,035
Seismic Design Category C – F													
1/2	PAR4XX	PAB4	11/16	1/2 x 2 x 2	1-1/8	5	7-1/2	4,270	6,405	4-1/2	7	4,270	6,405
5/8	PAR5XX	PAB5	11/16	1/2 x 2 x 2	1-3/8	6-1/2	10	6,675	10,010	6	9	6,675	10,010
3/4	PAR6XX	PAB6	15/16	1/2 x 2 x 2	1-1/2	7-1/2	11-1/2	9,060	12,940	7	10-1/2	8,945	12,780
						8	12	9,610	14,415	7-1/2	11-1/2	9,610	14,415
7/8	PAR7XX	PAB7	15/16	1/2 x 3 x 3	1-5/8	9	13-1/2	11,905	17,010	8-1/2	13	11,970	17,100
						10	15	13,080	19,620	9-1/2	14-1/2	13,080	19,620
	PAR7HXX	PAB7H	15/16	1/2 x 3 x 3	1-5/8	14-1/2	22	25,350	36,215	13-1/2	20-1/2	24,650	35,215
1	PAR8XX	PAB8	1-1/16	1/2 x 3 x 3	1-7/8	15-1/2	23-1/2	27,060	40,590	14-1/2	22	27,060	40,590
						11	16-1/2	15,996	22,850	10-1/2	16	16,435	23,480
						11-1/2	17-1/2	17,080	25,625	11	16-1/2	17,080	25,625
						17	25-1/2	33,045	47,205	16	24	32,720	46,740
1-1/8	PAR9XX	PAB9	1-5/16	1/2 x 3 x 3	2	18	27	35,345	53,015	17	25-1/2	35,345	53,015
						12-1/2	19	19,795	28,275	12	18	20,255	28,940
1-1/4	PAR10XX	PAB10	1-5/16	1/2 x 3 x 3	2-1/4	13-1/2	20-1/2	21,620	32,430	12-1/2	19	21,620	32,430
						14-1/2	22	25,350	36,215	14	21	26,190	37,415
						15	22-1/2	26,690	40,035	14-1/2	22	26,690	40,035

- 1) ACI 318-11/14 design assumptions:
 - a. Cracked concrete.
 - b. No supplementary reinforcement.
 - c. Seismic design includes Seismic Design Categories (SDC) C through F with the following exception
 - Detached 1- and 2-family dwellings in SDC C may use wind design criteria.
 - d. Wind designs criteria apply to SDC A and B.
 - e. Recommended foundation dimensions are for tension (uplift) forces ONLY in accordance with ACI 318-11/14. Foundation design is the responsibility of the Registered Design Professional.

2) d_e = minimum depth of embedment

3) F = minimum perpendicular distance from anchor axis to edge of foundation.

4) d_e values rounded to the nearest 1/2".

5) "H" in the stock number denotes High Strength Rod.

