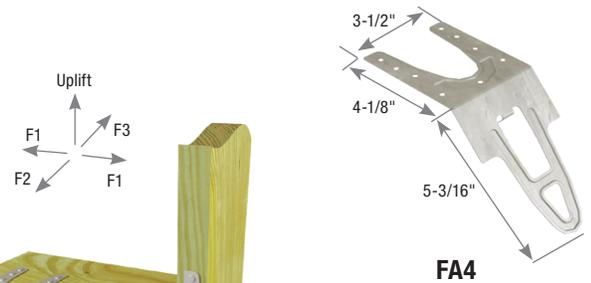


The FA4 foundation anchors can be installed as a replacement for 5/8" diameter anchor bolts or also commonly used 1/2" diameter anchor bolts while achieving the same load capacity.

Features:

- Tested to meet the requirements of ICC-ES Acceptance Criteria AC-308 for uncracked and cracked concrete. ICC-ES evaluation report pending.
- Use as a replacement for 5/8" or 1/2" anchor bolts with cut or plate washers and nuts.
- Embedded leg with flow-thru design reduces spalling by minimizing the size of the concrete fracture plane.



Typical FA4 standard installation

Typical FA4 one-tab-up installation

Materials: 16 gauge

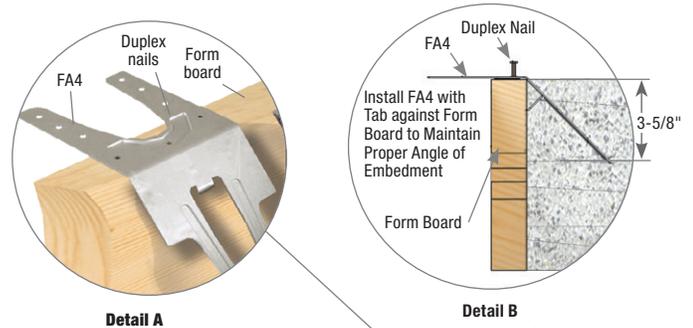
Finish: G90 galvanizing

Options: FA4 is available in Triple Zinc. To order, add TZ to stock number, as in FA4-TZ.

Codes: IBC, FL, LA

Installation:

- The FA4 can be mounted to the form board before placing the concrete or inserted into wet concrete after it is poured. See DETAIL A installation.
- Place the mudsill in position after the concrete cures. Secure the FA4 to the mudsill (and stud, if applicable) by bending the flanges as needed for a tight fit and nailing into place with the size and quantity of fasteners specified in the chart.



Typical FA4 form board installation

MiTek Stock No.	Ref. No.	GA	Plate Size	Fastener Schedule ⁴				Installation Type	Concrete ³	DF/SP Allowable Loads (Lbs.) ^{1,2}			
				Sill Plate		Stud Qty	Type			Uplift 160%	F1 160%	F2 160%	F3 160%
				Side Qty	Top Qty								
Wind and ASCE Seismic Design A & B													
FA4	MASA	16	Single 2x	3	6	--	10d x 1-1/2	Standard	Uncracked	905	1460	1070	655
				3	3	3			Cracked	750	1225	750	585
			Single 3x	5	4	--	10d x 1-1/2	Standard	Uncracked	780	955	1070	515
				Cracked	750	955			755	515			
			Varies	9	--	--	10d x 1-1/2	Two-Tabs-Up	Uncracked	1070	650	650	400
				Cracked	750	650			650	400			
ASCE Seismic Design C-F													
FA4	MASA	16	Single 2x	3	6	--	10d x 1-1/2	Standard	Uncracked	875	1460	875	655
				3	3	3			Cracked	655	1075	655	510
			Single 3x	5	4	--	10d x 1-1/2	Standard	Uncracked	780	955	875	515
				Cracked	655	955			655	510			
			Varies	9	--	--	10d x 1-1/2	Two-Tabs-Up	Uncracked	875	1130	--	--
				Cracked	655	1075			--	--			

- 1) Allowable loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
- 2) Allowable loads are based on a minimum stemwall thickness of 6", minimum distance from the end of the concrete wall of 4" and minimum anchor spacing of 8".
- 3) Minimum concrete strength f'c = 2,500 psi.
- 4) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long.

Prescriptive Spacing to Replace 1/2" or 5/8" Diameter Anchor Bolts

Anchor Bolt Diameter	Anchor Bolt Spacing	DF/SP 2x Mudsill O.C. Spacing				Hem-Fir 2x Mudsill O.C. Spacing				Min End Distance	Min C-C Spacing
		ASCE Seismic Design A & B		ASCE Seismic Design C-E		ASCE Seismic Design A & B		ASCE Seismic Design C-E			
		Wind	ASCE Seismic Design A & B	ASCE Seismic Design C-E	Wind	ASCE Seismic Design A & B	ASCE Seismic Design C-E				
1/2"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	5-1/2"	7-1/4"
	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"		
5/8"	6'-0"	5'-4"	5'-4"	5'-4"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5-1/2"	7-1/4"
	4'-0"	3'-7"	3'-7"	3'-7"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"		

- 1) Place anchors not more than 1'-0" from end of each mudsill per code.
- 2) Spacing is based on parallel to mudsill load direction only.
- 3) Concrete shall have a minimum f'c = 2,500 psi.
- 4) Spacing applies to a maximum of 1 in 4 FA4 Foundation Anchors being installed to mudsill and stud.
- 5) Spacing requirements are based on lateral load capacities of anchor bolts published in the 2018 NDS.