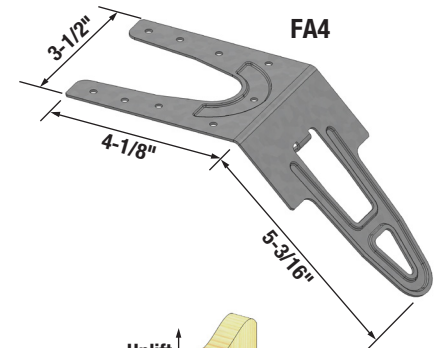


FA4 Foundation Anchor



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



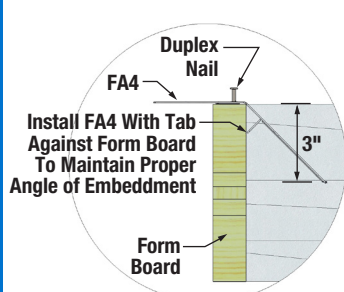
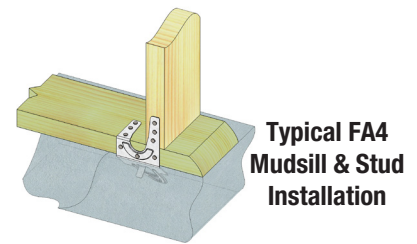
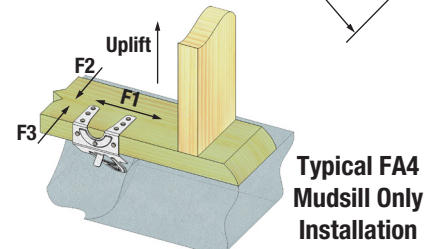
Features:

- Tested to meet the requirements of for uncracked and cracked concrete.
- 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.

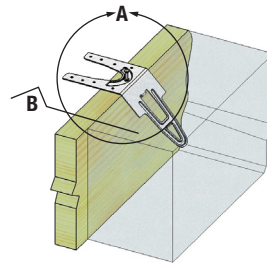
Materials: 16 gauge
Finish: G90 galvanizing
Options: FA4 is available in Triple Zinc. To order, add TZ to stock number, as in FA4-TZ.

Installation:

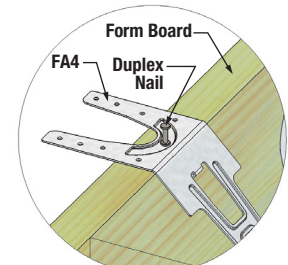
- The FA4 can be mounted to the form board before placing the concrete or inserted into the wet concrete after it is poured. See Detail A installation.
- Place the mudsill in position after the concrete cures. Secure the FA4 to the mudsill (and stud, if applicable) by bending the flanges as needed for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



Section B



FA4 Form Board Installation



Detail A

USP supplies quality products to build Stronger Safer Structures

Customer Service:

Phone: 1-855-633-2725
 Fax: 1-905-952-2903
 Email: mbp-orders@mitek.ca

www.USPconnectors.com

Plate Size	USP Stock No.	Ref. No.	Ga.	Fastener Schedule ⁵				Concrete ³	Unit	DF												Ctn								
				Sill Plate ⁴		Stud	Type			Factored Resistance ^{1,2,5}																				
				Side	Top					Wind and $I_e F_u S_a(0.2) < 0.35$						$I_e F_u S_a(0.2) \geq 0.35$														
				Qty	Qty	Qty	Qty			Uplift	F1	F2	F3	Uplift	F1	F2	F3	Uplift	F1	F2	F3									
2 x 4 or 2 x 6	FA4 Mudsill Only	MASA	16	3	6	---	10d x 1-1/2	Uncracked	Lbs	1615	2265	1825	990	1395	2035	1395	990	1450	2030	1635	885	1395	2030	1395	885					
								Cracked	kN	7.18	10.08	8.12	4.40	6.21	9.05	6.21	4.40	6.45	9.03	7.27	3.94	6.21	9.03	6.21	3.94	6.21	3.94			
				FA4 Mudsill & Stud	3	3	3	10d x 1-1/2	Uncracked	Lbs	1395	1485	1915	780	1395	1485	1395	780	1250	1335	1915	700	1250	1335	1395	700	1250	1335	1395	700
									Cracked	kN	6.21	6.61	8.52	3.47	6.21	6.61	6.21	3.47	5.56	5.94	8.52	3.11	5.56	5.94	6.21	3.11	5.56	5.94	6.21	3.11
										Lbs	1340	1485	1340	780	1005	1425	1005	730	1250	1335	1340	700	1005	1335	1005	700	1005	700		
										kN	5.96	6.61	5.96	3.47	4.47	6.34	4.47	3.25	5.56	5.94	5.96	3.11	4.47	5.94	4.47	5.94	4.47	3.11		

1) Short-term load duration factor 115% for wind and earthquake has been taken into consideration; no further increased is allowed.
 2) Factored resistances are based on a minimum stemwall thickness of 6-inches, minimum end distance of 5-1/2" and minimum spacing of 7 inches.
 3) Minimum 28-day concrete compressive strength $f'_c = 2500$ psi (17.25 MPa).
 4) Factored resistances are based on using a single-ply 2x sill plate. Sill plate may be treated lumber.
 5) When loads in more than one direction are present, interaction effects shall be considered using the unity equation - Refer to USP catalog Design Notes (1).
 6) **NAILS:** 10d x 1-1/2" nails are 0.148" dia. x 1-1/2" long.