

FAP/FJA/FSA Foundation Anchors

This series is for retrofit or new construction. These products may be used together as a system or in individual applications, designed and tested for earthquake and high wind conditions.

The FAP Plate connects the mudsill to the foundation. Designed to provide lateral load resistance.

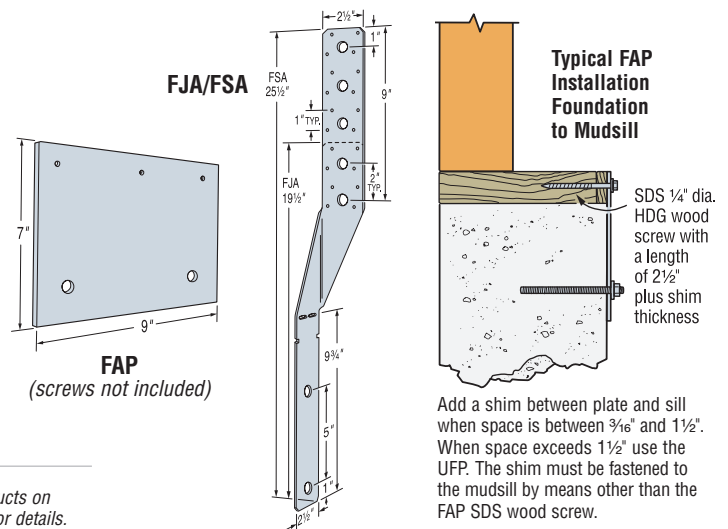
FJA Foundation Joist Anchor nails or bolts directly into floor joist, and provides a direct connection between the foundation and joist. It provides uplift and lateral resistance. FSA Foundation Stud Anchor nails or bolts to floor joist, or nails to stud. Plywood shearwall may require notching with stud-to-foundation installation.

MATERIAL: FAP—7 gauge; all others—12 gauge

FINISH: Galvanized; may be ordered HDG, check with Simpson Strong-Tie. See Corrosion Information, page 10-11

INSTALLATION: • Use all specified fasteners; see General Notes.

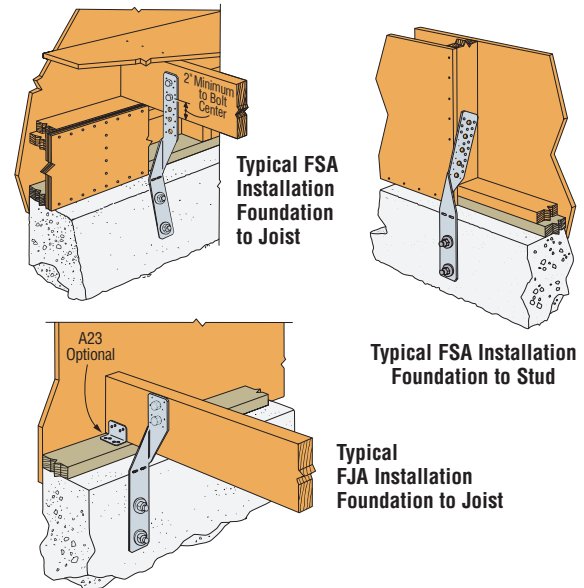
- Select and install concrete anchor bolts in accordance with the manufacturer's recommendations.
- See Acrylic-Tie® adhesive, page 31 and RFB, page 21.
- Spacing to be specified by the Designer.



These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model No.	Fasteners			Factored Resistance (K _D =1.15)					
	Anchor Bolt		Stud/Joist/Plate	D.Fir-L			S-P-F		
	Qty.	Dia. (in)		Uplift	F ₁	F ₂	Uplift	F ₁	F ₂
				lbs	lbs	lbs	lbs	lbs	lbs
FAP	2	1/2	3-SDS 1/4"x2 1/2" + shim thickness	—	1475	690	—	1305	290
				—	6.57	3.07	—	5.81	1.29
FJA	2	1/2	8-10dx1 1/2	2085	—	—	1495	—	—
				9.29	—	—	6.66	—	—
			2-1/2" dia. MB	1000	—	—	860	—	—
				4.45	—	—	3.83	—	—
FSA	2	1/2	8-10dx1 1/2	2170	—	—	1555	—	—
				9.67	—	—	6.93	—	—
			2-1/2" dia. MB	1000	—	—	860	—	—
				4.45	—	—	3.83	—	—

1. Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed; reduce where other load durations govern.
2. Use the RFB#4x6 with the Acrylic-Tie for the anchorage system.
3. FAP uses a minimum SDS wood screw length of 2 1/2" plus the shim thickness.
4. The shim must be fastened to the mudsill by means other than the FAP wood screw.
5. See page 15 for SDS wood screw information.
6. **NAILS:** 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.



UFP Universal Foundation Plate

The UFP10 Retrofit Foundation Plate cuts installation time in half. Designed to connect when the mudsill is offset from the foundation up to 2 1/2" or extended beyond the foundation up to 1/2".

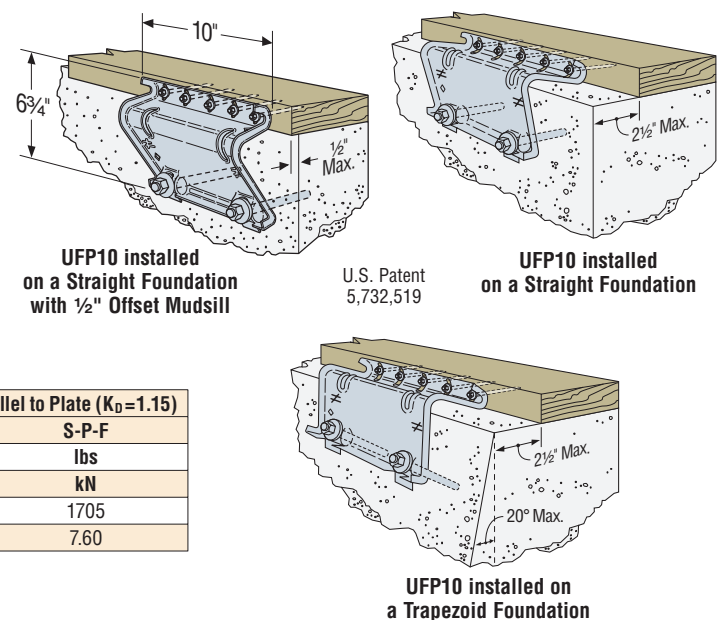
The UFP may be used in place of the FA, HFA and FAP connectors.

MATERIAL: 14 gauge

FINISH: Galvanized. May be ordered HDG, check with Simpson Strong-Tie. See Corrosion Information, page 10-11.

INSTALLATION: • Use all specified fasteners; see General Notes.

- Loads are based on Simpson Strong-Tie SDS 1/4"x3" screw's factored lateral resistance, which are supplied with the UFP10.
- Alternate lag screws will not achieve published loads.
- The retrofit bolt RFB#4x7 with Epoxy-Tie® or Acrylic-Tie adhesive embedded 4 1/4" or equivalent 1/2"x4 1/4" Wedge-All® mechanical anchor embedded 2 1/4" will meet the tabulated factored resistances.



Model No.	Fasteners			Factored Resistance Parallel to Plate (K _D =1.15)	
	Anchor Bolt		Plate	D.Fir-L	
	Qty.	Dia. (in)		lbs	lbs
				kN	kN
UFP10-SDS3	2	1/2	5-SDS 1/4"x3"	1945	1705
				8.66	7.60

1. Factored resistances have been increased 15% for earthquake or wind loading, with no further increase allowed. Reduce where other load durations apply.
2. Each anchor bolt requires a standard cut washer.