

Flat Steel System



Plate Anchor (Square Base)

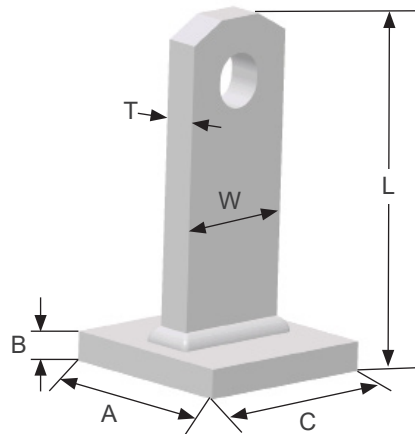
The CONAC FPA-S Series Anchors have been developed with a large square base, increasing the shear cone within the concrete and eliminating the requirement for additional rebar reinforcement over the base plate in achieving the listed SWL.

TON	SYS CODE	ITEM CODE	ANCHOR DEPTH (L)	BODY WIDTH (W)	BODY THICK. (T)	BASE THICK. (B)	BASE WIDTH (A)	BASE LENGTH (C)	MIN EDGE DIST.	SWL TENSION (LBS)	SWL SHEAR (LBS)	UML (LBS)
4	5	FPA-S043916	3-9/16"	1-1/2"	5/8"	3/8"	3"	3"	7-1/2"	5500	5500	32000
4	5	FPA-S044916	4-9/16"	1-1/2"	5/8"	3/8"	3"	3"	9"	7000	7000	32000
8	10	FPA-S08538	5-3/8"	2-1/2"	3/4"	5/8"	4"	4"	11"	11200	11200	64000
8	10	FPA-S08638	6-3/8"	2-1/2"	3/4"	5/8"	4"	4"	12-1/2"	15250	15250	64000
8	10	FPA-S08738	7-3/8"	2-1/2"	3/4"	5/8"	4"	4"	14"	16000	16000	64000

Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.

UML= Ultimate Mechanical Load

When used in shear, the load should be perpendicular to the face of the anchor.



The larger square base allows achieving listed SWL without additional rebar reinforcement over the base plate.

Plate Anchor

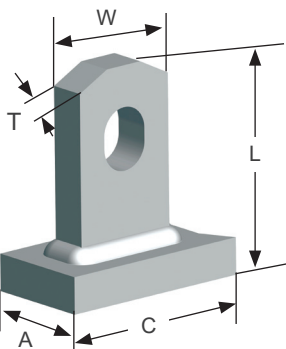
Bottom plate allows high strength for stripping and erecting. Reinforcement required to develop SWL.

When used in shear, the load should be perpendicular to the face of the anchor.

TON	SYS CODE	ITEM CODE	ANCHOR DEPTH (L)	BODY WIDTH (W)	BODY THICK. (T)	BASE WIDTH (A)	BASE LENGTH (C)	MIN EDGE DIST.	SWL TENSION (LBS)	SWL SHEAR (LBS)	SWL TENSION REINFORCED (LBS)	SWL SHEAR REINFORCED (LBS)	UML (LBS)
2	2.5	FPA02023	2-1/4"	1-1/4"	3/8"	1-1/4"	3-3/4"	4-1/2"	2043	2043	4000	4000	16000
4	5	FPA04030	3"	1-1/2"	5/8"	1-1/2"	3"	5-3/4"	3422	3422	8000	8000	32000
4	5	FPA04035	3-1/2"	1-1/2"	5/8"	1-1/2"	3"	6-1/2"	4095	4095	8000	8000	32000
4	5	FPA04044	4-3/8"	1-1/2"	5/8"	1-1/2"	3-7/8"	7-3/4"	5178	5178	8000	8000	32000
4	5	FPA04063	6-1/8"	1-1/2"	5/8"	1-1/2"	3-7/8"	10-1/2"	8000	8000	8000	8000	32000
8	10	FPA08061	6-1/4"	2-1/2"	3/4"	2-1/2"	5"	11-1/2"	7726	7726	12000	12000	64000
8	10	FPA08071-1	7-1/8"	2-1/2"	3/4"	2-1/2"	4"	12"	9054	9054	16000	16000	64000
8	10	FPA08073	7"	3"	3/4"	3"	4"	12"	9054	9054	16000	16000	64000
8	10	FPA08093	9"	3"	3/4"	3"	4"	15-1/2"	12920	12920	16000	16000	64000

Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.

UML= Ultimate Mechanical Load



Reinforced Allowable Tension Capacities require the use of additional rebars positioned as shown over the base plate of the anchor.

- For 2 Ton anchors, use 2 x #4 rebars x 12" long each direction (in 3500 psi concrete).
- For 4 and 8 Ton anchors (FPA08061), use 2 x #4 rebars x 18" long each direction (in 3500 psi concrete).
- For 8 Ton anchors (FPA08071-1 and longer), use 2 x #4 rebars x 21" long each direction (in 3500 psi concrete).

