

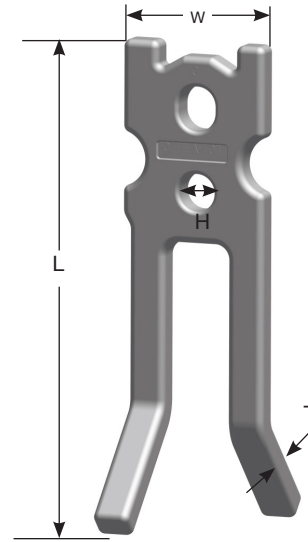
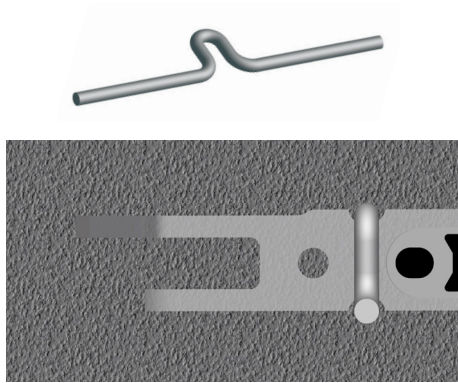
# Flat Steel System



## Forged Erection Anchor

Designed to edge lift panel to vertical position with use of shear bar or shear plate.

See page 39 for shear bar information.



TON	SYS CODE	RING CLUTCH	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	HOLE DIA. (H)	SPREAD (S)	SWLTENSION (LBS)	UML (LBS)
3	2.5T	2-3 T	CFEA3T	8"	2"	3/8"	1/2"	3-1/4"	6,000	24,000
6	5.0T	4-6 T	CFEA6T	10-1/2"	2-3/4"	5/8"	3/4"	4-3/16"	12,000	48,000
11	10T	11 T	CFEA11T*	12-13/16"	4"	3/4"	1-1/8"	6"	24,000	96,000

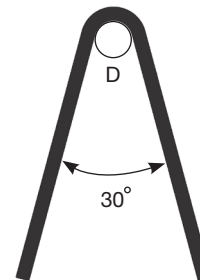
Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.

UML=Ultimate Mechanical Load

\* Note: Using this anchor to its 11 ton capacity requires use of CONAC FRC11B Ring Clutch.



Rebar V's are required to develop SWL.



TENSION VEES		REQUIRED TO DEVELOP REINFORCED ALLOWABLE TENSION CAPACITY							
Nominal System Capacity	Rebar Size	Min. Bend Diameter (D)	Concrete Strength [psi]						
			2,200	2,500	3,000	3,500	4,000	4,500	5,000
			Length of Rebar Before Bending [in]						
3 Ton	#4	3"	37	35	32	30	28	27	25
6 Ton	#5	3-3/4"	59	56	51	48	45	43	41
11 Ton	#7	5-1/4"	97	91	84	78	73	69	66
12 Ton	#7	5-1/4"	106	100	91	85	80	76	72

Based on ACI 318-14 requirements.

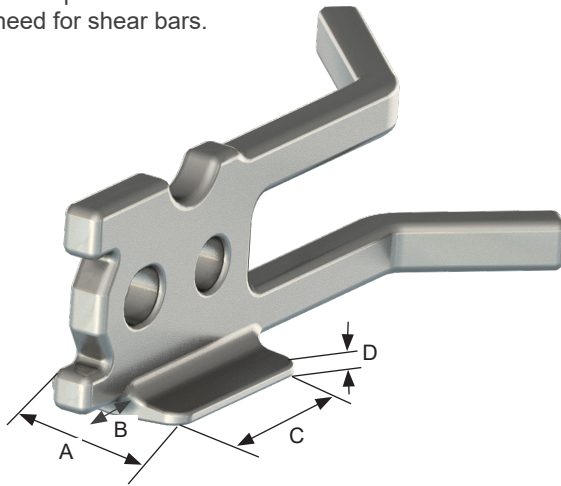
For single bar application.

Multiply chart values by 1.3 for lightweight concrete.

Multiply chart values by 1.2 for epoxy coated bars.

## Forged Erection Anchor With Shear Plate

Shear plate eliminates need for shear bars.



TON	SYS CODE	ITEM CODE	PLATE WIDTH (A)	PLATE POSITION (B)	PLATE LENGTH (C)	PLATE THICK. (D)
3	2.5	CFEA3TS	2-1/2"	3/4"	3-1/2"	5/16"
6	5	CFEA6TS	2-1/2"	1-1/4"	3"	3/8"
11	10	CFEA11TS	3"	1-5/8"	4"	3/8"

TON	SYSTEM CODE	ITEM CODE	PANEL THICKNESS	SWL SHEAR W/SHEAR PLATE (LBS)	SWL TENSION W/O TENSION BAR (LBS)	SWL TENSION W/TENSION BAR (LBS)
<b>2-3 Ton Ring Clutch (3 Ton Anchor)</b>						
3	2.5T	CFEA3TS	4"	1980	3190	6000
			5"	2110	3885	
			6"	2360	4000	
			7"	2610	4380	
			8"	2880	5010	
			9"	3160	5640	
			10"	3440	6000	
			11"	3720	6000	
<b>4-6 Ton Ring Clutch (6 Ton Anchor)</b>						
6	5.0T	CFEA6TS	5-1/2"	2840	4970	12000
			6"	2980	5185	
			7"	3260	6015	
			8"	3550	6900	
			9"	3850	7785	
			10"	4160	8590	
			11"	4480	9450	
			12"	4800	10310	
<b>11-Ton Ring Clutch (11 Ton Anchor)</b>						
11	10T	CFEA11TS	8"	3800	7695	24000
			9"	4100	8625	
			10"	4410	9565	
			11"	4730	10680	
			12"	5060	11660	

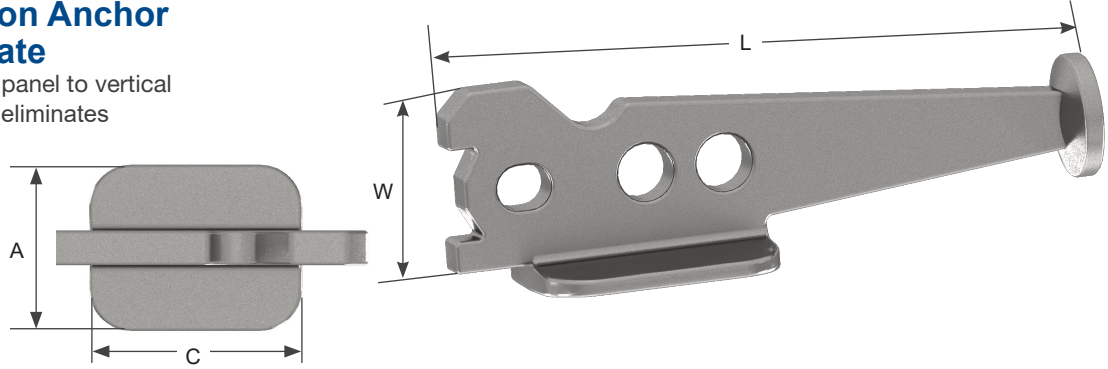
Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.

# Flat Steel System



## Forged Erection Anchor With Shear Plate

Designed to edge lift panel to vertical position. Shear plate eliminates need for shear bars.



TON	SYS CODE	RING CLUTCH	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	PLATE WIDTH (A)	PLATE LENGTH (C)	SWL TENSION (LBS)	UML (LBS)
3	2.5T	2-3 T	CNFEA3TS	8"	2-3/8"	3/8"	2-1/2"	3-1/2"	6000	24000
6	5.0T	4-6 T	CNFEA6TS	10-1/2"	2-7/8"	5/8"	3"	4"	12000	48000
12	10T	12 T	CNFEA12TS	12-13/16"	4-5/16"	3/4"	3-1/4"	4"	24000	96000

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

TON	SYSTEM CODE	ITEM CODE	PANEL THICKNESS	SWL SHEAR W/SHEAR PLATE (LBS)	SWL TENSION W/O TENSION BAR (LBS)	SWL TENSION W/TENSION BAR (LBS)
<b>2-3 Ton Ring Clutch</b>						
3	2.5T	CNFEA3TS	4"	1800	6000	6000
			5"	2300		
			6"	2800		
			7"	3400		
			8"	4000		
			9"	4400		
			10"	4800		
			11"	5200		
12"	5700					
<b>4-6 Ton Ring Clutch</b>						
6	5.0T	CNFEA6TS	5-1/2"	3100	10000	12000
			6"	3250		
			7"	3700		
			8"	4040		
			9"	4600		
			10"	5000		
			11"	5500		
			12"	6100		
<b>12 Ton Ring Clutch</b>						
12	10T	CNFEA12TS	7-1/2"	4600	17890	24000
			8"	4800		
			9"	5450		
			10"	6100		
			11"	6800		
			12"	7600		

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