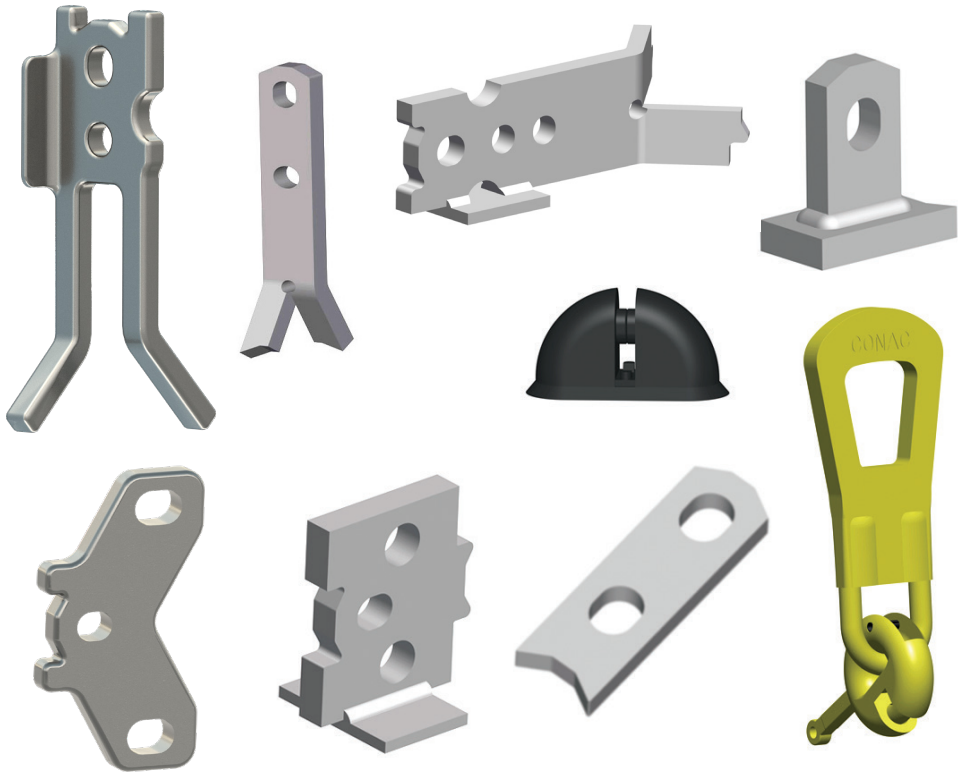
Flat Steel

Lifting System

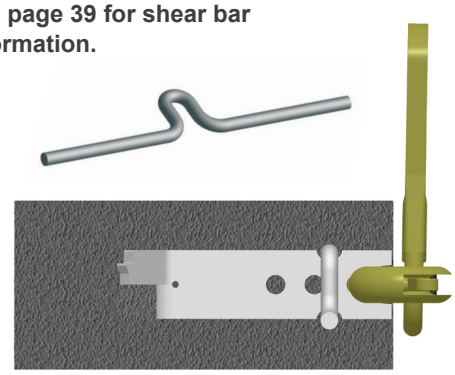


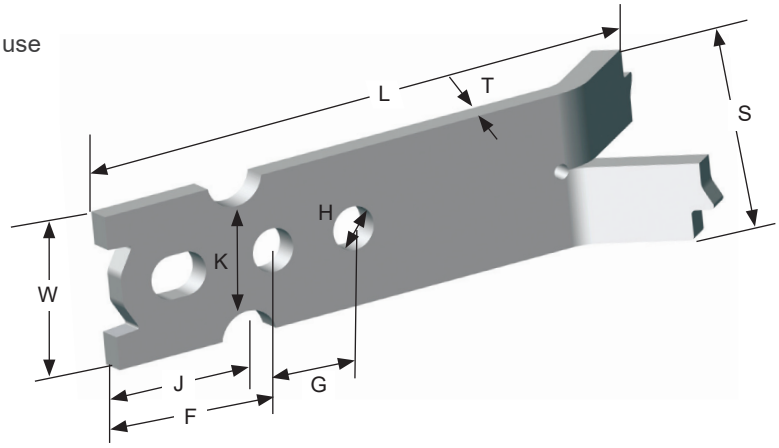
Flat Steel System

CONAC
Concrete Lifting Solutions

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	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	NOTCH LOCATION (J)	NECK WIDTH (K)	HOLE DIA. (H)	HOLE CENTERS (G)	HOLE LOCATION (F)	SPREAD (S)
2	2.5	FEA02080	8"	2"	3/8"	1-13/16"	1-3/8"	9/16"	1-1/8"	2-1/4"	2-3/4"
4	5	FEA04105	10-1/2"	2-1/2"	5/8"	2-1/2"	1-13/16"	3/4"	1-1/4"	3-3/16"	3-3/8"
8	10	FEA08128	12-13/16"	3-3/4"	3/4"	3-1/8"	2-7/16"	1"	1-3/4"	4"	5"
10	10	FEA08128-10T	12-13/16"	3-3/4"	3/4"	3-1/8"	2-7/16"	1"	1-3/4"	4"	5"

TON	SYSTEM CODE	ITEM CODE	PANEL THICKNESS	SWL SHEAR W/SHEAR BAR (LBS)	SWL TENSION W/O TENSION BAR (LBS)	SWL TENSION W/TENSION BAR (LBS)
	2-Ton Ring Clutch (2 Ton Anchor)					
2	2.5T	FEA02080	4"	**1950**	**3190**	**4000**
			5"	**2105**	**3885**	
			6"	**2535**	**4000**	
			7"	**2885**	**4000**	
			8"	**3145**	**4000**	
			9"	**3445**	**4000**	
			10"	**3625**	**4000**	
			11"	**3885**	**4000**	
			12"	**4000**	**4000**	
	4-Ton Ring Clutch (4 Ton Anchor)					
4	5T	FEA04105	6"	**3000**	**5185**	**8000**
			7"	**3155**	**6015**	
			8"	**3445**	**6900**	
			9"	**3635**	**7785**	
			10"	**3845**	**8000**	
			11"	**3945**	**8000**	
			12"	**4000**	**8000**	
	8-Ton Ring Clutch (8 Ton Anchor)					
8	10T	FEA08128	8"	**4000**	**7695**	**16000**
			9"	**4165**	**8625**	
			10"	**4265**	**9565**	
			11"	**4485**	**10680**	
			12"	**4535**	**11660**	

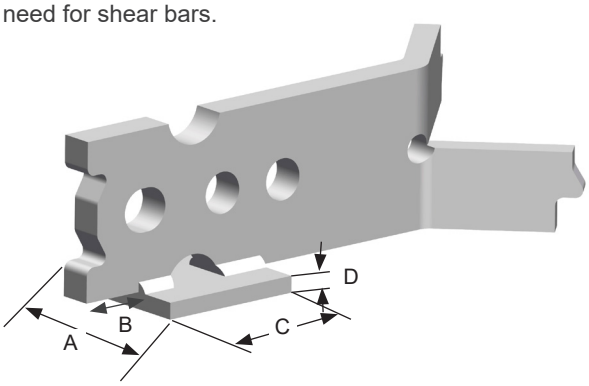
Safe working loads based on 4:1 Safety Factor in 3,500 psi normal weight concrete.
See page 26 for Tension Vee Bar information.

Flat Steel System

CONAC
Concrete Lifting Solutions

Erection Anchor with Shear Plate

Welded shear plate eliminates need for shear bars.



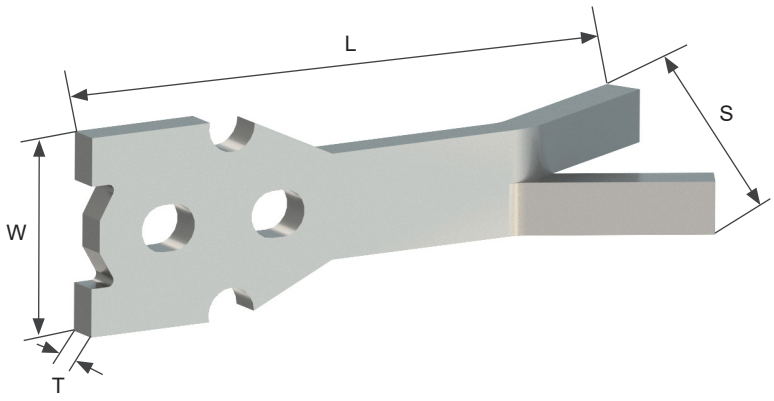
TON	SYS CODE	ITEM CODE	PLATE WIDTH (A)	PLATE POSITION (B)	PLATE LENGTH (C)	PLATE THICK. (D)
2	2.5	FEA02080S	2-1/2"	3/4"	3"	1/4"
4	5	FEA04105S	2-1/2"	1-1/4"	3"	3/8"
8	10	FEA08128S	3"	1-5/8"	3-1/2"	3/8"
10	10	FEA08128S-10T	3"	1-5/8"	3-1/2"	3/8"

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)
	2-Ton Ring Clutch (2 Ton Anchor)					
2	2.5T	FEA02080S	4"	**1950**	**3190**	**4000**
			5"	**2100**	**3885**	
			6"	**2500**	**4000**	
			7"	**2870**	**4000**	
			8"	**3160**	**4000**	
			9"	**3420**	**4000**	
			10"	**3640**	**4000**	
			11"	**3840**	**4000**	
			12"	**4000**	**4000**	
	4-Ton Ring Clutch (4 Ton Anchor)					
4	5T	FEA04105S	4"	**1800**	**3400**	**8000**
			5"	**2660**	**4730**	
			6"	**2860**	**5185**	
			7"	**3170**	**6015**	
			8"	**3430**	**6900**	
			9"	**3650**	**7785**	
			10"	**3860**	**8000**	
			11"	**3930**	**8000**	
			12"	**4010**	**8000**	
	8-Ton Ring Clutch (8 Ton Anchor)					
8	10T	FEA08128S	7"	**4010**	**7100**	**16000**
			8"	**4010**	**7695**	
			9"	**4120**	**8625**	
			10"	**4280**	**9565**	
			11"	**4420**	**10680**	
			12"	**4550**	**11660**	

Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.
See page 26 for Tension Vee Bar information.

Erection Split Tail Anchor

CONAC Erection Split Tail Anchor is ideal for use in thick precast wall panels and edge lifting applications. The protrusions on the anchor head prevent lifting device interaction with the concrete that could cause spalling, and enables a wider shear cone to achieve higher shear loads.

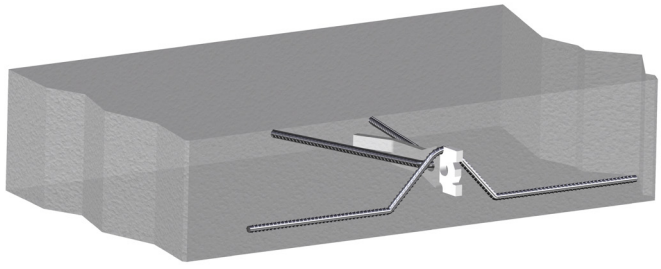


TON	SYS CODE	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	HOLE DIA. (H)	SPREAD (S)	SWL (LBS)	UML
12.5	22	FEA-S1720	19-5/8"	5-7/8"	7/8"	1-3/8"	3-1/8"	**25000**	**100000**
17	22	FEA-S1720	19-5/8"	5-7/8"	1"	1-3/8"	3-1/8"	**34000**	**158000**
21	22	FEA-S2120	19-5/8"	5-7/8"	1-1/8"	1-3/8"	3-1/8"	**42000**	**168000**

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

TON	SYS CODE	ITEM CODE	MIN. EDGE DISTANCE	MIN. ANCHOR SPACING	PANEL THICKNESS	SWL SHEAR W/SHEAR BAR (LBS)	SWL TENSION W/TENSION BAR (LBS)
12.5	22	FEA-S1720	36"	72"	10"	**10538**	**25000**
17	22	FEA-S1720	36"	72"	12"	**14332**	**34000**
21	22	FEA-S2120	36"	72"	14"	**18547**	**42000**

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



	SHEAR BAR	
TON	REBAR SIZE (DIA)	REBAR LENGTH (BEFORE BENDING)
12.5	#8	72"
17	#8	72"
21	#8	72"

Rebar V's are required to develop SWL.

TENSION VEES	REQUIRED TO DEVELOP REINFORCED ALLOWABLE TENSION CAPACITY								
			Concrete Strength [psi]						
Nominal System Capacity	Rebar Size	Min. Bend Diameter (D)	2,200	2,500	3,000	3,500	4,000	4,500	5,000
			Length of Rebar Before Bending [in]						
12.5 Ton	#7	5-1/4"	110	104	95	89	83	79	75
17 Ton	#8	6"	130	122	112	105	98	93	89
21 Ton	#9	9-1/2"	143	134	123	115	108	102	97

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.

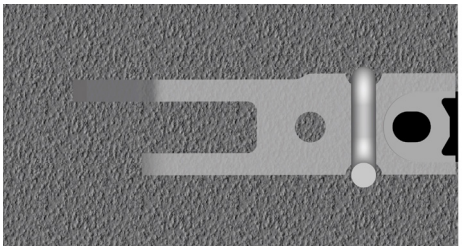
Flat Steel System

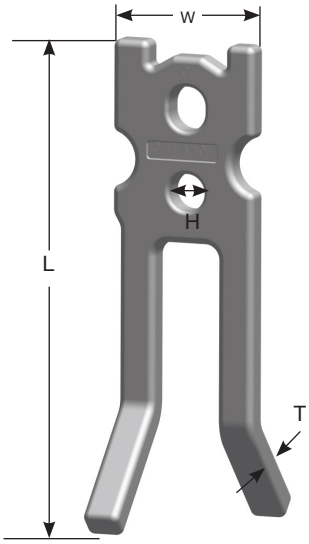
CONAC
Concrete Lifting Solutions

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.

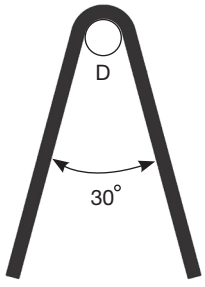




TON	SYS CODE	RING CLUTCH	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	HOLE DIA. (H)	SPREAD (S)	SWLTENSION (LBS)	UML (LBS)
3	2.5T	2-3 T	CFEA3T	8"	2"	3/8"	1/2"	3-1/4"	**6,000**	**24,000**
6	5.0T	4-6 T	CFEA6T	10-1/2"	2-3/4"	5/8"	3/4"	4-3/16"	**12,000**	**48,000**
11	10T	11 T	CFEA11T*	12-13/16"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

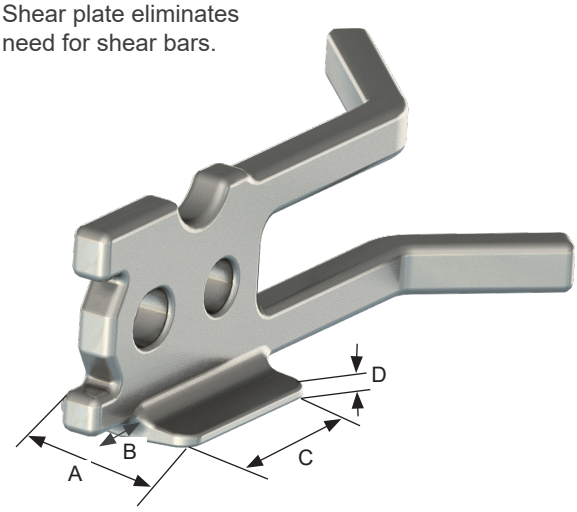


TENSION VEES	REQUIRED TO DEVELOP REINFORCED ALLOWABLE TENSION CAPACITY								
			Concrete Strength [psi]						
Nominal System Capacity	Rebar Size	Min. Bend Diameter (D)	2,200	2,500	3,000	3,500	4,000	4,500	5,000
			Length of Rebar Before Bending [in]						
3 Ton	#4	3"	37	35	32	30	28	27	25
6 Ton	#5	3-3/4"	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)
	2-3 Ton Ring Clutch (3 Ton Anchor)					
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**	
			12"	**4110**	**6000**	
	4-6 Ton Ring Clutch (6 Ton Anchor)					
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**	
	11-Ton Ring Clutch (11 Ton Anchor)					
11	10T	CFEA11TS	8"	**3800**	**7695**	**24000**
			9"	**4100**	**8625**	
			10"	**4410**	**9565**	
			11"	**4730**	**10680**	
			12"	**5060**	**11660**	

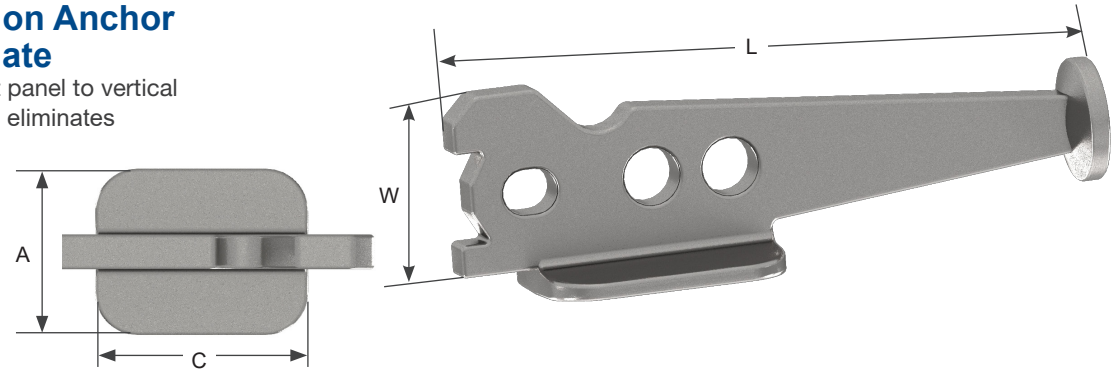
Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.

Flat Steel System

CONAC
Concrete Lifting Solutions

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)
	2-3 Ton Ring Clutch					
3	2.5T	CNFEA3TS	4"	**1800**	**6000**	**6000**
			5"	**2300**		
			6"	**2800**		
			7"	**3400**		
			8"	**4000**		
			9"	**4400**		
			10"	**4800**		
			11"	**5200**		
			12"	**5700**		
	4-6 Ton Ring Clutch					
6	5.0T	CNFEA6TS	5-1/2"	**3100**	**10000**	**12000**
			6"	**3250**	**10500**	
			7"	**3700**	**11500**	
			8"	**4040**	**12000**	
			9"	**4600**	**12000**	
			10"	**5000**	**12000**	
			11"	**5500**	**12000**	
			12"	**6100**	**12000**	
	12 Ton Ring Clutch					
12	10T	CNFEA12TS	7-1/2"	**4600**	**17890**	**24000**
			8"	**4800**	**18825**	
			9"	**5450**	**19760**	
			10"	**6100**	**20695**	
			11"	**6800**	**21630**	
			12"	**7600**	**22565**	

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

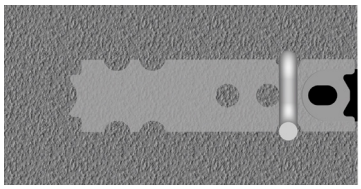
Flat Steel System

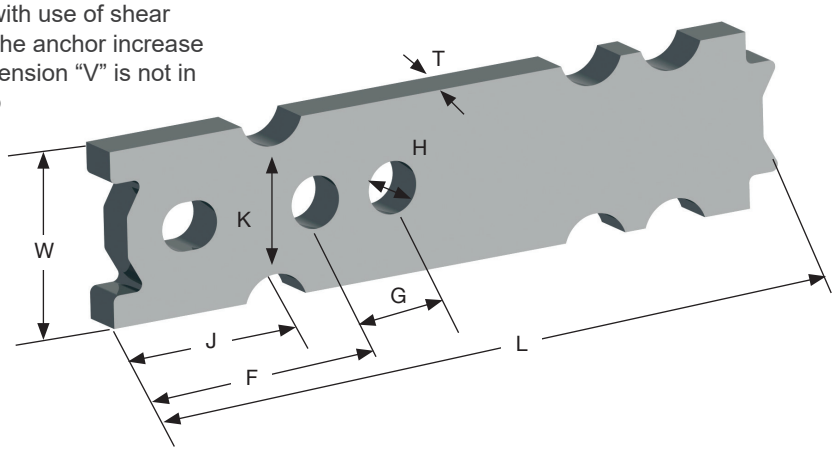
CONAC
Concrete Lifting Solutions

Tech Erection Anchor

Designed to edge lift panel to vertical position with use of shear bar or shear plate. Indentations in the sides of the anchor increase bond to develop additional tension load when Tension “V” is not in use. Tension "V"s are still necessary to develop the full mechanical capacity of the anchor.

See page 39 for shear bar information.





TON	SYS CODE	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	NOTCH LOCATION (J)	NECK WIDTH (K)	HOLE LOCA. (F)	HOLE CENTER (G)	HOLE DIA. (H)	SWL TENSION (LBS)	UML TENSION (LBS)
2	2.5	FEA-T02080	8”	2”	3/8”	1-13/16”	1-3/8”	2-1/4”	1-1/8”	9/16”	**4,000**	**16,000**
4	5	FEA-T04105	10-1/2”	2-1/2”	5/8”	2-1/2”	1-13/16”	3-3/16”	1-1/4”	3/4”	**8,000**	**32,000**
8	10	FEA-T08128	13-3/8”	3-3/4”	3/4”	3-3/16”	2-9/16”	4”	1-3/4”	1”	**16,000**	**64,000**

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

TON	SYSTEM CODE	ITEM CODE	PANEL THICKNESS	SWL SHEAR W/SHEAR BAR (LBS)	SWL TENSION W/O TENSION BAR (LBS)	SWL TENSION W/TENSION BAR (LBS)
	2-Ton Ring Clutch (2 Ton Anchor)					
2	2.5T	FEA-T02080	4"	**1950**	**3190**	**4000**
			5"	**2105**	**3885**	
			6"	**2535**	**4000**	
			7"	**2885**	**4000**	
			8"	**3145**	**4000**	
			9"	**3445**	**4000**	
			10"	**3625**	**4000**	
			11"	**3885**	**4000**	
			12"	**4000**	**4000**	
	4-Ton Ring Clutch (4 Ton Anchor)					
4	5T	FEA-T04105	6"	**3000**	**5185**	**8000**
			7"	**3155**	**6015**	
			8"	**3445**	**6900**	
			9"	**3635**	**7785**	
			10"	**3845**	**8000**	
			11"	**3945**	**8000**	
			12"	**4000**	**8000**	
	8-Ton Ring Clutch (8 Ton Anchor)					
8	10T	FEA-T08128	8"	**4000**	**7695**	**16000**
			9"	**4165**	**8625**	
			10"	**4265**	**9565**	
			11"	**4485**	**10680**	
			12"	**4535**	**11660**	

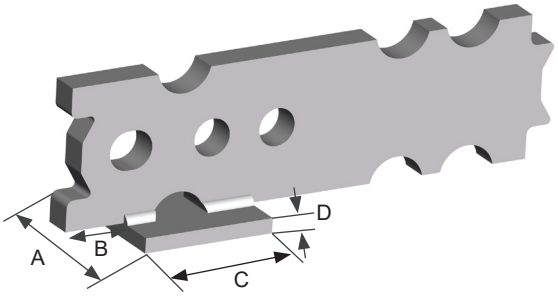
Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.
See page 26 for Tension Vee Bar information.

Flat Steel System

CONAC
Concrete Lifting Solutions

Tech Erection Anchor with Shear Plate

Welded shear plate eliminates
need for shear bars.



TON	SYS CODE	ITEM CODE	PLATE WIDTH (A)	PLATE POSITION (B)	PLATE LENGTH (C)	PLATE THICK. (D)
2	2.5	FEA-T02080S	2-1/2"	3/4"	3"	1/4"
4	5	FEA-T04105S	2-1/2"	1-1/4"	3"	3/8"
8	10	FEA-T08128S	3"	1-5/8"	3-1/2"	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)
	2-Ton Ring Clutch (2 Ton Anchor)					
2	2.5T	FEA-T02080S	4"	**1950**	**3190**	**4000**
			5"	**2100**	**3885**	
			6"	**2500**	**4000**	
			7"	**2870**	**4000**	
			8"	**3160**	**4000**	
			9"	**3420**	**4000**	
			10"	**3640**	**4000**	
			11"	**3840**	**4000**	
			12"	**4000**	**4000**	
	4-Ton Ring Clutch (4 Ton Anchor)					
4	5T	FEA-T04105S	4"	**1800**	**3400**	**8000**
			5"	**2660**	**4730**	
			6"	**2860**	**5185**	
			7"	**3170**	**6015**	
			8"	**3430**	**6900**	
			9"	**3650**	**7785**	
			10"	**3860**	**8000**	
			11"	**3930**	**8000**	
			12"	**4010**	**8000**	
	8-Ton Ring Clutch (8 Ton Anchor)					
8	10T	FEA-T08128S	7"	**4010**	**7100**	**16000**
			8"	**4010**	**7695**	
			9"	**4120**	**8625**	
			10"	**4280**	**9565**	
			11"	**4420**	**10680**	
			12"	**4550**	**11660**	

Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.
See page 26 for Tension Vee Bar information.

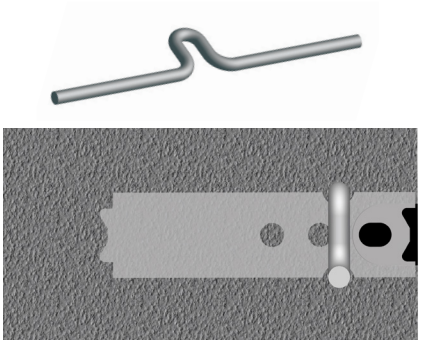
Flat Steel System

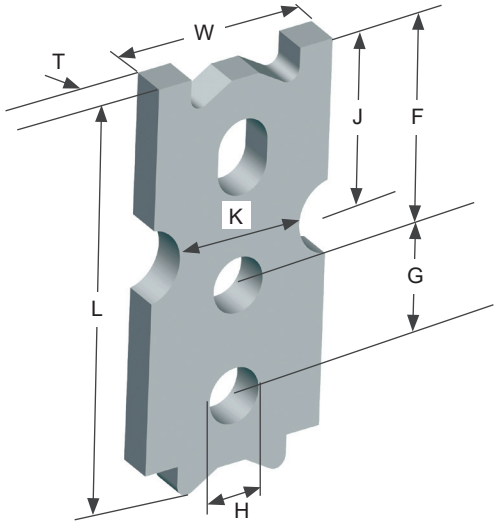
CONAC
Concrete Lifting Solutions

Erection Head Anchor

Ideal for lifting in shear position, such as a tilt table or A-frame when shear plate or shear bar is used.
Rebar V's are required to develop SWL.

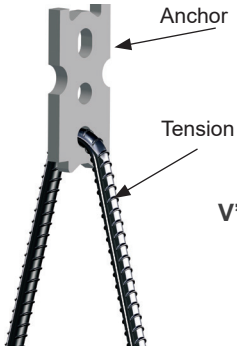
See page 39 for shear bar information.



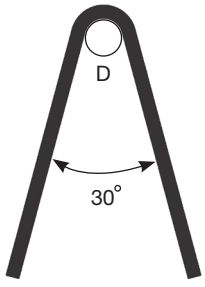


TON	SYS CODE	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	NOTCH LOCATION (J)	NECK WIDTH (K)	HOLE LOCA. (F)	HOLE CENTER (G)	HOLE DIA. (H)	SWL TENSION (LBS)	UML (LBS)
2	2.5	FEH02043	4-1/4"	2"	3/8"	1-13/16"	1-3/8"	2-1/4"	1-1/8"	9/16"	**4,000**	**16000**
2	2.5	FEH02080	7-7/8"	2"	3/8"	1-13/16"	1-3/8"	2-1/4"	1-1/8"	9/16"	**4,000**	**16000**
4	5	FEH04075	7-7/16"	2-1/2"	5/8"	2-1/2"	1-13/16"	3-3/16"	1-1/4"	3/4"	**8,000**	**32000**
4	5	FEH04105	10-1/2"	2-1/2"	5/8"	2-1/2"	1-13/16"	3-3/16"	1-1/4"	3/4"	**8,000**	**32000**
8	10	FEH08133	13-1/4	3-3/4"	3/4"	3-1/8"	2-7/16"	4"	1-3/4"	1"	**16,000**	**64000**

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



V's are required to develop SWL.



TENSION VEES	REQUIRED TO DEVELOP REINFORCED ALLOWABLE TENSION CAPACITY								
			Concrete Strength [psi]						
Nominal System Capacity	Rebar Size	Min. Bend Diameter (D)	2,200	2,500	3,000	3,500	4,000	4,500	5,000
			Length of Rebar Before Bending [in]						
2 Ton	#3	2-1/4"	33	32	29	27	25	24	24
4 Ton	#4	3"	49	46	43	40	37	35	34
8 Ton	#6	4-1/2"	67	63	58	54	51	48	46
10 Ton	#7	5-1/4"	88	83	76	71	67	63	60

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.

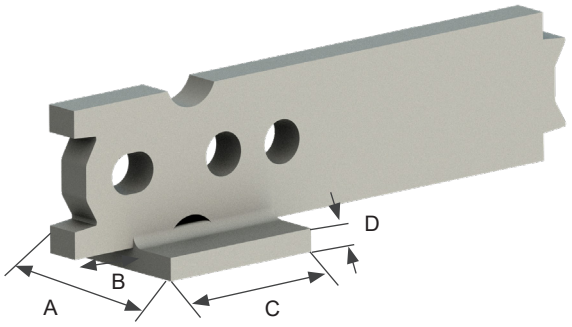
Flat Steel System

CONAC
Concrete Lifting Solutions

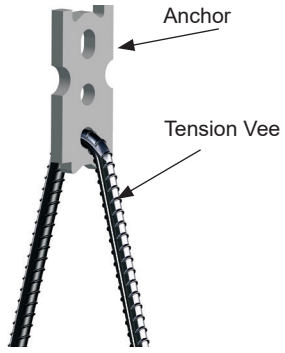
Erection Head Anchor with Shear Plate

Welded shear plate eliminates need for shear bars.

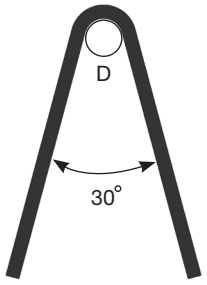
TON	SYS CODE	ITEM CODE	PLATE WIDTH (A)	PLATE POSITION (B)	PLATE LENGTH (C)	PLATE THICK. (D)
2	2.5	FEH02043S	2-1/2"	3/4"	3"	1/4"
2	2.5	FEH02080S	2-1/2"	3/4"	3"	1/4"
4	5	FEH04075S	2-1/2"	1-1/4"	3	3/8"
4	5	FEH04105S	2-1/2"	1-1/4"	3"	3/8"
8	10	FEH08133S	3"	1-5/8"	3-1/2"	3/8"



TON	SYSTEM CODE	ITEM CODE	PANEL THICKNESS	SWL SHEAR W/SHEAR PLATE (LBS)	SWL TENSION W/TENSION BAR (LBS)
	2-Ton Ring Clutch (2 Ton Anchor)				
2	2.5	FEH02043S	4"	**1235**	**4000**
			5"	**1525**	
			6"	**1750**	
			7"	**1900**	
			8	**2075**	
2	2.5T	FEH02080S	4"	**1950**	**4000**
			5"	**2100**	
			6"	**2500**	
			7"	**2870**	
			8"	**3160**	
	4-Ton Ring Clutch (4 Ton Anchor)				
4	5T	FEH04075S	5-1/2"	**2025**	**8000**
			6"	**2250**	
			7"	**2600**	
			8"	**3000**	
			9"	**3375**	
			10"	**3750**	
4	5T	FEH04105S	5"	**2660**	**8000**
			6"	**2920**	
			7"	**3170**	
			8"	**3430**	
			9"	**3650**	
			10"	**3860**	
			11"	**3930**	
			12"	**4010**	
	8-Ton Ring Clutch (8 Ton Anchor)				
8	10T	FEH08133S	7"	**4010**	**16000**
			8"	**4010**	
			9"	**4120**	
			10"	**4280**	
			11"	**4420**	
			12"	**4550**	



V's are required to develop SWL.



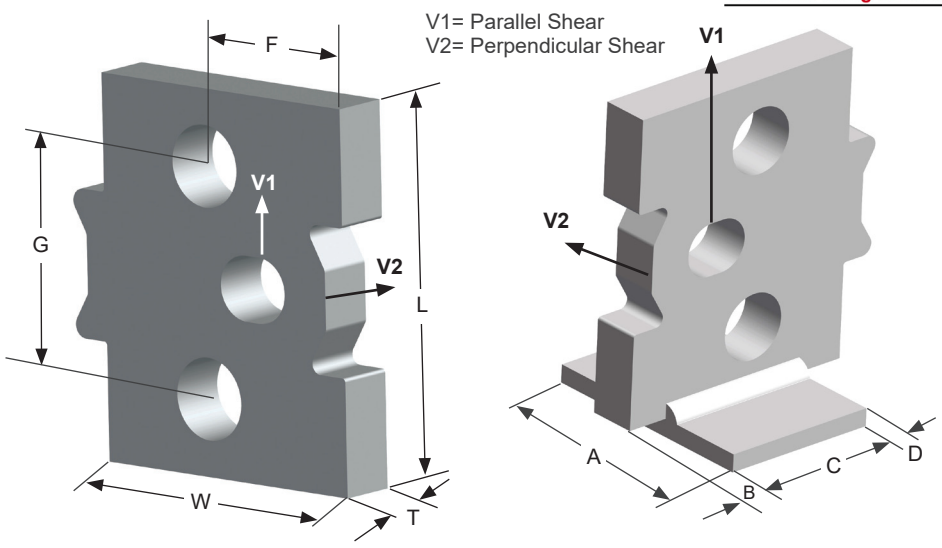
Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi normal weight concrete.
See page 26 for Tension Vee Bar information.

Flat Steel System

CONAC
Concrete Lifting Solutions

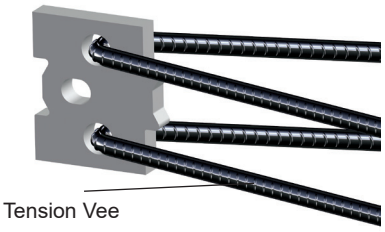
Insulated Panel Erection Anchor

Used for insulated/sandwich wall panels. Delivers load distribution to both wythes. Shear plate maximizes shear loads. Rebar Vees required to develop SWL.



TON	ITEM CODE	ANCH. LENG. (L)	ANCH. WIDTH (W)	THICK. (T)	HOLE LOCAT. (F)	HOLE CENT. (G)	PLATE WIDTH (A)	PLATE POS. (B)	PLATE LENG. (C)	PLATE THICK. (D)	UML TENS. (LBS)	SWL TENS. (LBS)	V1 SHEAR (LBS)	V2 SHEAR (LBS)
FOR 6" THICK PANEL 2+2+2														
4	FIN043X4	4"	3-3/8"	5/8"	2-1/4"	2-3/8"	n/a	n/a	n/a	n/a	**32000**	**6400**	**3640**	**3700**
4	FIN043X4S	4"	3-3/8"	5/8"	2-1/4"	2-3/8"	3"	1/2"	2"	1/4"	**32000**	**6400**	**3605**	**3700**
FOR 8" THICK PANEL 3+2+3														
4	FIN 043X6	6"	3-1/4"	5/8"	1-7/8"	4-3/8"	n/a	n/a	n/a	n/a	**32000**	**8000**	**4600**	**8000**
4	FIN043X6S	6"	3-1/4"	5/8"	1-7/8"	4-3/8"	3"	5/8"	2"	1/4"	**32000**	**8000**	**4875**	**8000**
8	FIN084X6	6"	4-3/4"	3/4"	3-3/8"	4-3/8"	n/a	n/a	n/a	n/a	**64000**	**16000**	**4310**	**9500**
8	FIN084X6S	6"	4-3/4"	3/4"	3-3/8"	4-3/8"	3"	3/4"	3-1/2"	3/8"	**64000**	**16000**	**4409**	**9500**
FOR 8" THICK PANEL 4+2+2														
4	FIN043X6	6"	3-1/4"	5/8"	1-7/8"	4-3/8"	n/a	n/a	n/a	n/a	**32000**	**8000**	**5050**	**8000**
4	FIN043X6S	6"	3-1/4"	5/8"	1-7/8"	4-3/8"	3"	5/8"	2"	1/4"	**32000**	**8000**	**5350**	**8000**
8	FIN084X6	6"	4-3/4"	3/4"	3-3/8"	4-3/8"	n/a	n/a	n/a	n/a	**64000**	**16000**	**5110**	**10500**
8	FIN084X6S	6"	4-3/4"	3/4"	3-3/8"	4-3/8"	3"	3/4"	3-1/2"	3/8"	**64000**	**16000**	**5427**	**10500**
FOR 9" THICK PANEL 3+3+3														
10	FIN084X7	7"	4-3/4"	3/4"	3-3/8"	5"	n/a	n/a	n/a	n/a	**80000**	**20000**	**5210**	**10900**
10	FIN084X7S	7"	4-3/4"	3/4"	3-3/8"	5"	8"	1"	3"	3/8"	**80000**	**20000**	**5520**	**10900**
FOR 10" THICK PANEL 3+4+3														
10	FIN084X8	8"	4-3/4"	3/4"	3-3/8"	6"	n/a	n/a	n/a	n/a	**80000**	**20000**	**4910**	**9700**
10	FIN084X8S	8"	4-3/4"	3/4"	3-3/8"	6"	8"	1"	3"	3/8"	**80000**	**20000**	**5210**	**9700**

Safe working loads based on approximate 4:1 Safety Factor in 3,500 psi (4,500 psi for 10T anchors) normal weight concrete.
UML= Ultimate Mechanical Load



Tension Vee

Based on ACI 318-14 requirements.
For two-bar application.
Multiply chart values by 1.3 for lightweight concrete.
Multiply chart values by 1.2 for epoxy coated bars.

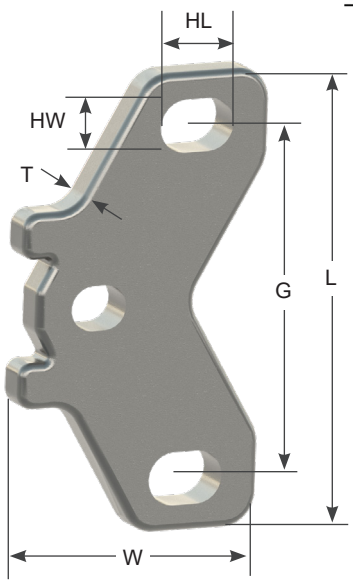
TENSION VEES	REQUIRED TO DEVELOP REINFORCED ALLOWABLE TENSION CAPACITY								
			Concrete Strength [psi]						
Nominal System Capacity	Rebar Size	Min. Bend Diameter (D)	2,200	2,500	3,000	3,500	4,000	4,500	5,000
			Length of Rebar Before Bending [in]						
4 Ton	2 #4s	3"	37	35	32	30	30	30	30
6 Ton	2 #4s	3"	55	52	48	45	42	40	38
8 Ton	2 #5s	3-3/4"	59	56	51	48	45	43	41
9 Ton	2 #5s	3-3/4"	67	75	69	65	61	58	55
10 Ton	2 #6s	4-1/2"	63	59	54	51	48	45	43
12 Ton	2 #6s	4-1/2"	75	71	65	61	57	54	52

Flat Steel System

CONAC
Concrete Lifting Solutions

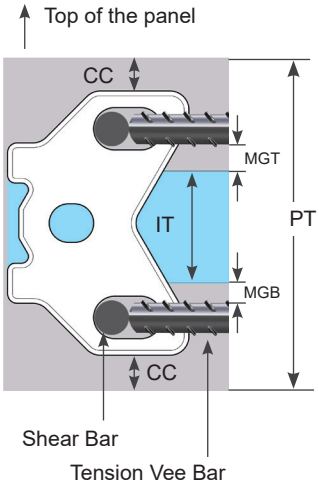
Forged Insulated Panel Erection Anchor

CONAC's CFIN Forged Insulated Panel Erection Anchor is designed for use in insulated panels. The design spans the insulation with minimal effect on thermal efficiency and achieves even load distribution throughout both wythes for optimal performance. The forging process ensures higher anchor strength and increased load capacity. Use of tension rebar V's is required to achieve full SWL, and shear bars develop maximum shear capacity.



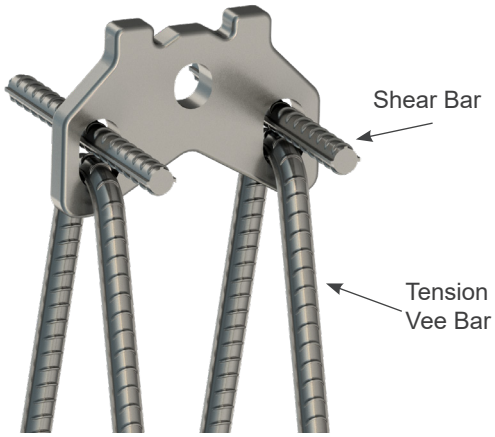
TON	RING CLUTCH	ITEM CODE	LENGTH (L)	WIDTH (W)	THICK. (T)	HOLE CENT. (G)	HOLE LENGTH (HL)	HOLE WIDTH (HW)	UML TENSION (LBS)
6	4-6 T	CFIN6T	7"	4"	5/8"	5-3/8"	1-3/16"	13/16"	**48000**
9	8-11 T	CFIN9T	5-3/4"	4-3/16"	3/4"	3-3/4"	1-1/2"	15/16"	**72000**
12	12 T	CFIN12X7	7"	4-13/16"	3/4"	5"	1-13/16"	1-1/8"	**96000**
12	12 T	CFIN12X8	8"	4-13/16"	3/4"	6"	1-13/16"	1-1/8"	**96000**

UML= Ultimate Mechanical Load



ITEM CODE	LENGTH (L)	PANEL THICKNESS	BOTTOM WYTHE	INSUL. THICK.	TOP WYTHE	MGT	MGB	CONCRETE COVER
CFIN6T	7"	8"	2"	4"	2"	7/16"	7/16"	1/2"
		9"	3"	3"	3"	15/16"	15/16	1"
CFIN9T	5-3/4"	8"	3"	2"	3"	9/16"	9/16"	1-1/8"
CFIN12X7	7"	9"	3"	3"	3"	5/8"	5/8"	1"
CFIN12X8	8"	10"	3"	4"	3"	5/8"	5/8"	1"
		11"	2-1/2"	4'	2-1/2"	5/8"	5/8"	1/2"

Minimum 1/2" concrete cover required on top and bottom of Insulated Panel Anchor.



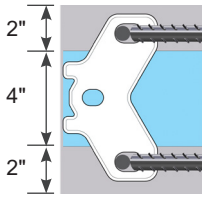
Flat Steel System

CONAC
Concrete Lifting Solutions

Forged Insulated Panel Erection Anchor Load Chart

TON	ITEM CODE	V1 SHEAR 4:1 (LBS)	V1 SHEAR 2.66:1 (LBS)	V2 SHEAR 4:1 (LBS)	SWL TENSION 4:1 (LBS)	UML TENSION (LBS)	TENSION REBAR GR 60	SHEAR REBAR GR 60
FOR 8" THICK PANEL 2+4+2								
6	CFIN6T	**2670**	**4020**	**8200**	**12000**	**48000**	#4 x 45"	#5 x 6"

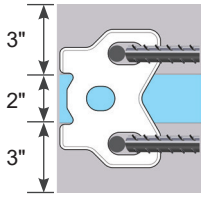
Safe working loads based on aproximate 4:1 Safety Factor in 3,500 psi for 6 T anchor and 4,500 psi for 9T and 12T anchors normal weight concrete.
2.66:1 safety factor in shear may be used at the discretion of the engineer for stripping.
V1= Parallel Shear
V2= Perpendicular Shear



6 Ton Forged Anchor for 8" Panel

TON	ITEM CODE	V1 SHEAR 4:1 (LBS)	V1 SHEAR 2.66:1 (LBS)	V2 SHEAR 4:1 (LBS)	SWL TENSION 4:1 (LBS)	UML TENSION (LBS)	TENSION REBAR GR 60	SHEAR REBAR GR 60
FOR 8" THICK PANEL 4+2+2								
9	CFIN9T	**4600**	**6910**	**9260**	**18000**	**72000**	#5 x 58"	#6 x 6"
FOR 8" THICK PANEL 3+2+3								
9	CFIN9T	**4400**	**6610**	**8700**	**18000**	**72000**	#5 x 58"	#6 x 6"

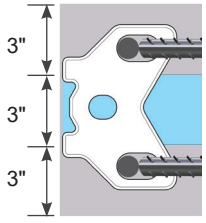
Safe working loads based on aproximate 4:1 Safety Factor in 3,500 psi for 6 T anchor and 4,500 psi for 9T and 12T anchors normal weight concrete.
2.66:1 safety factor in shear may be used at the discretion of the engineer for stripping.
V1= Parallel Shear
V2= Perpendicular Shear



9 Ton Forged Anchor for 8" Panel

TON	ITEM CODE	V1 SHEAR 4:1 (LBS)	V1 SHEAR 2.66:1 (LBS)	V2 SHEAR 4:1 (LBS)	SWL TENSION 4:1 (LBS)	UML TENSION (LBS)	TENSION REBAR GR 60	SHEAR REBAR GR 60
FOR 9" THICK PANEL 3+3+3								
6	CFIN6T	**4500**	**6780**	**9600**	**12000**	**48000**	#4 x 45"	#5 x 6"
12	CFIN12X7	**4700**	**7060**	**10900**	**24000**	**96000**	#6 x 54"	#7 x 6"

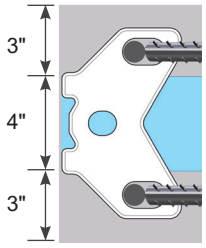
Safe working loads based on aproximate 4:1 Safety Factor in 3,500 psi for 6 T anchor and 4,500 psi for 9T and 12T anchors normal weight concrete.
2.66:1 safety factor in shear may be used at the discretion of the engineer for stripping.
V1= Parallel Shear
V2= Perpendicular Shear



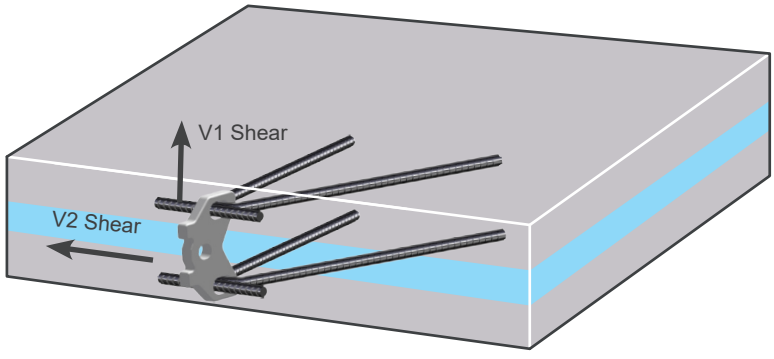
12 Ton Forged Anchor for 9" Panel

TON	ITEM CODE	V1 SHEAR 4:1 (LBS)	V1 SHEAR 2.66:1 (LBS)	V2 SHEAR 4:1 (LBS)	SWL TENSION 4:1 (LBS)	UML TENSION (LBS)	TENSION REBAR GR 60	SHEAR REBAR GR 60
FOR 10" THICK PANEL 3+4+3								
12	CFIN12X8	**4400**	**6610**	**9200**	**24000**	**96000**	#6 x 54"	#7 x 6"

Safe working loads based on aproximate 4:1 Safety Factor in 3,500 psi for 6 T anchor and 4,500 psi for 9T and 12T anchors normal weight concrete.
2.66:1 safety factor in shear may be used at the discretion of the engineer for stripping.
V1= Parallel Shear
V2= Perpendicular Shear



12 Ton Forged Anchor for 10" Panel

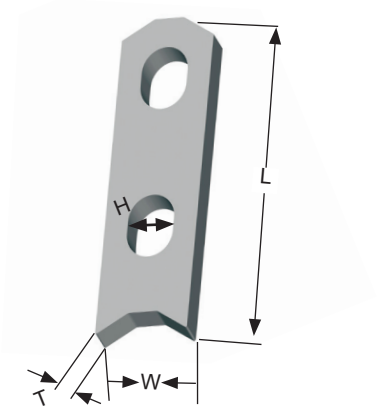


Flat Steel System

CONAC
Concrete Lifting Solutions

Two Hole Anchor

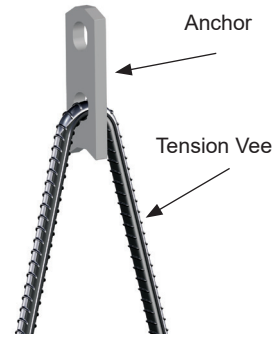
Lower hole accommodates rebar V's which are required to develop the SWL. Use only in tension.



TON	SYS CODE	ITEM CODE	ANCHOR LENGTH (L)	REBAR HOLE (H)	BODY THICK. (T)	BODY WIDTH (W)	SWL TENSION (LBS)	UML (LBS)
2	2.5	FTH02040	4"	5/8"	3/8"	1-1/4"	**4000**	**16000**
2	2.5	FTH02028	2-3/4"	9/16"	3/8"	1-1/4"	**4000**	**16000**
4	5	FTH04040	4"	5/8"	5/8"	1-1/2"	**8000**	**32000**
4	5	FTH04055	5-1/2"	11/16"	5/8"	1-1/2"	**8000**	**32000**
8	10	FTH08070	7"	1"	3/4"	2-1/2"	**16000**	**64000**
22	22	FTH22118	11-3/4"	1-1/2"	1"	3-3/4"	**44000**	**176000**

UML= Ultimate Mechanical Load

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



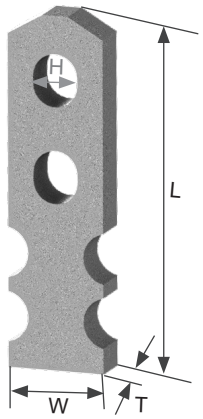
V's are required to develop SWL.

TENSION VEES	REQUIRED TO DEVELOP REINFORCED ALLOWABLE TENSION CAPACITY							
		Concrete Strength [psi]						
Nominal System Capacity	Rebar Size	2,200	2,500	3,000	3,500	4,000	4,500	5,000
		Length of Rebar Before Bending [in]						
2 Ton	#3	33	32	29	27	25	24	24
4 Ton	#4	49	46	43	40	37	35	34
8 Ton	#6	67	63	58	54	51	48	46
10 Ton	#7	88	83	76	71	67	63	60
22 Ton	#9	150	141	129	120	113	107	102

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.

Two Hole Tech Anchor

Indentations in the sides of the anchor increase bond to develop additional tensile capacity without the tension "V"s.
(Tension "V"s are still necessary to develop the full mechanical capacity of the anchor). Use only in tension.



TON	SYS CODE	ITEM CODE	ANCHOR LENGTH (L)	REBAR HOLE (H)	BODY THICK. (T)	BODY WIDTH (W)	SWL TENSION (LBS)	UML (LBS)
2	2.5	FTH-T02050	4-15/16"	5/8"	3/8"	1-1/4"	**4000**	**16000**
4	5	FTH-T04055	5-7/16"	5/8"	5/8"	1-1/2"	**8000**	**32000**

UML= Ultimate Mechanical Load

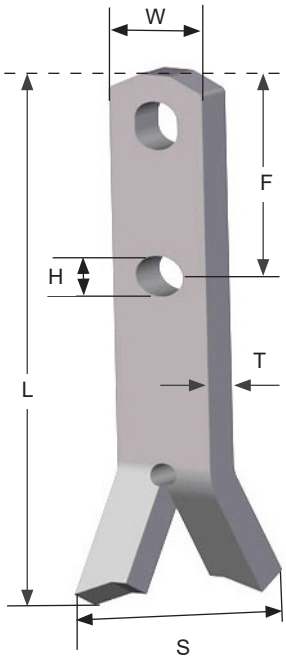
Safe working loads based on aproximate 4:1 Safety Factor in 3,500 psi normal weight concrete.

Flat Steel System

CONAC
Concrete Lifting Solutions

Spread Anchor

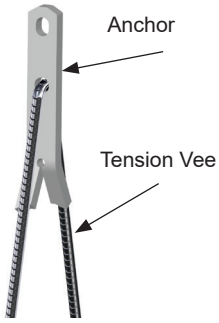
Used for both stripping and erecting. With proper edge distances can be pulled in any direction.



TON	SYS CODE	ITEM CODE	BODY LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	BASE SPREAD (S)	HOLE LOCA. (F)	HOLE DIA. (H)	MIN EDGE DIST.	SWL TENSION (LBS)	SWL TENSION W/TENSION BAR (LBS)
1	2.5	FSP02048	4-3/4"	1-1/4"	3/16"	2-3/4"	N/A	N/A	5-3/8"	**2000**	**2000**
2	2.5	FSP02040	4"	1-1/4"	3/8"	2-3/4"	N/A	N/A	4-5/8"	**2993**	**4000**
2	2.5	FSP02055	5-1/2"	1-1/4"	3/8"	2-3/4"	2-1/4"	1/2"	6-1/8"	**4000**	**4000**
4	5	FSP04040	4"	1-1/2"	1/2"	3-3/8"	N/A	N/A	4-3/4"	**2994**	**8000**
4	5	FSP04048	4-3/4"	1-1/2"	1/2"	3-3/8"	N/A	N/A	5-1/2"	**3805**	**8000**
4	5	FSP04068	6-3/4"	1-1/2"	1/2"	3-3/8"	3-3/4"	7/8"	7-1/2"	**6262**	**8000**
4	5	FSP04063	6-1/4"	1-1/2"	5/8"	3-3/8"	3-3/4"	11/16"	7-1/8"	**5703**	**8000**
4	5	FSP04095	9-1/2"	1-1/2"	5/8"	3-3/8"	3-3/4"	11/16"	10-1/4"	**8000**	**8000**
6	10	FSP06110	11"	2-1/2"	5/8"	5-1/4"	5"	1"	12-1/4"	**12000**	**12000**
8	10	FSP08110	11"	2-1/2"	3/4"	5-1/4"	5"	1"	12-1/4"	**12859**	**16000**
16	22	FSP22150	15"	3-3/4"	1"	6-1/4"	7-1/2"	1-3/8"	16-5/8"	**21593**	**32000**
22	22	FSP22189	18-7/8"	3-3/4"	1"	6-1/4"	13"	1-3/8"	20-1/2"	**31042**	**44000**

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

V's are required to develop SWL.

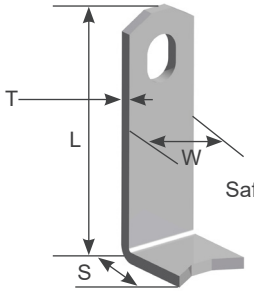


TENSION VEES	REQUIRED TO DEVELOP REINFORCED ALLOWABLE TENSION CAPACITY							
		Concrete Strength [psi]						
Nominal System Capacity	Rebar Size	2,200	2,500	3,000	3,500	4,000	4,500	5,000
		Length of Rebar Before Bending [in]						
2 Ton	#3	33	32	29	27	25	24	24
4 Ton	#4	49	46	43	40	37	35	34
8 Ton	#6	67	63	58	54	51	48	46
10 Ton	#7	88	83	76	71	67	63	60
16 Ton	#8	130	122	112	105	98	93	89
22 Ton	#9	150	141	129	120	113	107	102

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.

L-Anchor

Used for back stripping precast panels.



TON	SYS CODE	ITEM CODE	ANCHOR LENGTH (L)	BODY WIDTH (W)	BODY THICK. (T)	FOOT LENGTH (S)	SWL TENSION (LBS)	UML (LBS)
1	2.5	FL 1-1/4"X4"	4"	1-1/4"	3/16"	1-1/2"	**2000**	**8000**

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

Flat Steel System

CONAC
Concrete Lifting Solutions

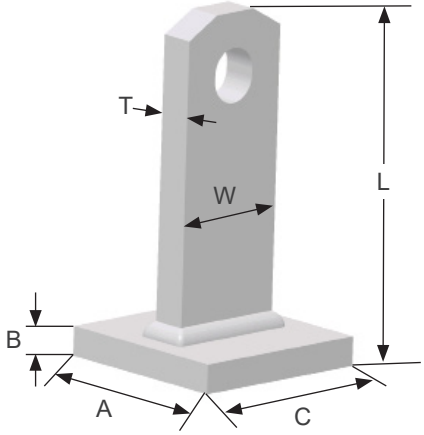
Plate Anchor (Square Base)

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-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 aproximate 4:1 Safety Factor in 3,500 psi normal weight concrete.
UML= Ultimate Mechanical Load

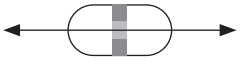
When used in shear, the load should be perpendicular to the face of the anchor.



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

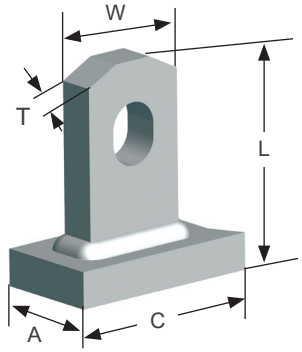
Plate Anchor

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.

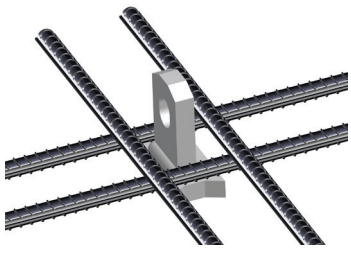
TON	SYS CODE	ITEM CODE	ANCHOR DEPTH (L)	BODY WIDTH (W)	BODY THICK. (T)	BASE WIDTH (A)	BASE LENGTH (C)	MIN EDGE DIST.	SWL TENSION (LBS)	SWL SHEAR (LBS)	SWL TENSION REINFORCED (LBS)	SWL SHEAR REINFORCED (LBS)	UML (LBS)
2	2.5	FPA02023	2-1/4"	1-1/4"	3/8"	1-1/4"	3-3/4"	4-1/2"	**2043**	**2043**	**4000**	**4000**	**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 aproximate 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).

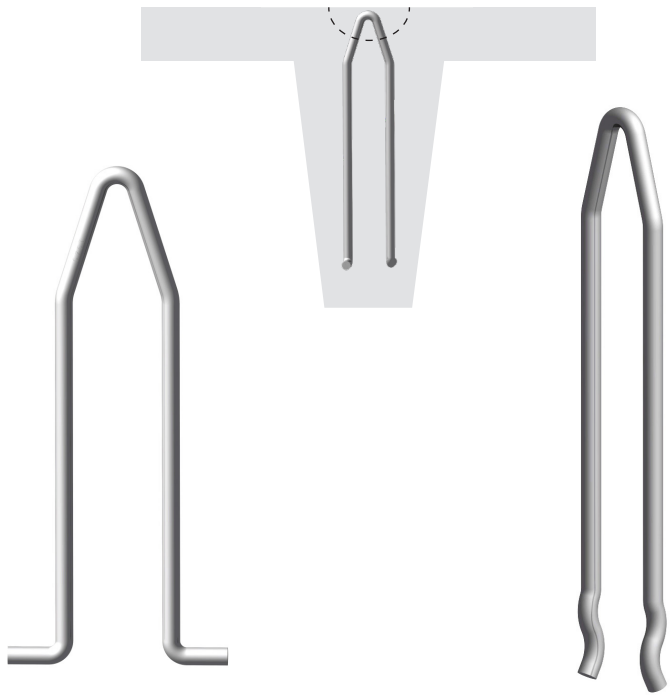


Flat Steel System

CONAC
Concrete Lifting Solutions

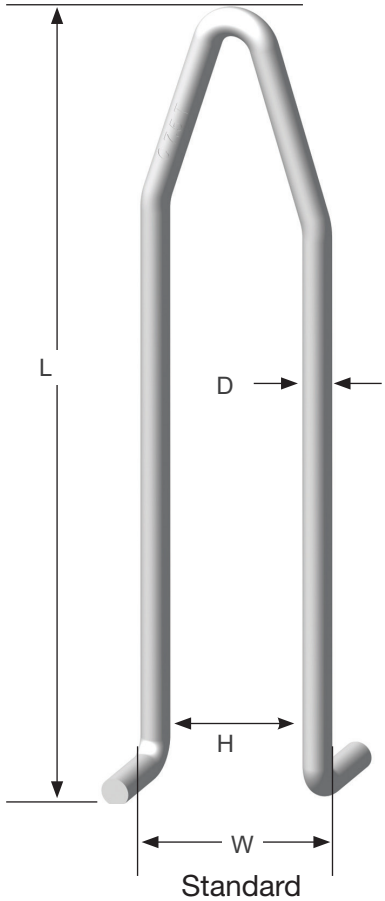
TT Anchor System

Designed for lifting precast double tees, available in 7.5T and 10T.
Available in three styles to accommodate different strand configurations.



Special

Wavy



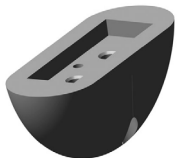
Standard

				Standard	Special	Wavy				
TON	SYS CODE	ITEM CODE	LENGTH (L)	OUTSIDE WIDTH (W)	OUTSIDE WIDTH (W)	OUTSIDE WIDTH (W)	INSIDE WIDTH (H)	DIAMETER (D)	SWL TENSION (LBS)	UML TENSION (LBS)
7.5	10	TT 7.5T	18”	4-3/8"	7-3/4”	N/A	3-1/8”	16 MM	**15000**	**60000**
10*	10	TT 10T	22-7/8”	3-7/8"	7-7/8”	3-7/8"	2-5/16”	20 MM	**20000**	**80000**

UML= Ultimate Mechanical Load in tension
Safe working loads based on aproximate 4:1 Safety Factor in 3,500 psi normal weight concrete.
*CONAC FRC11B (11 Ton Ring Clutch) must be used for 20,000 SWL.

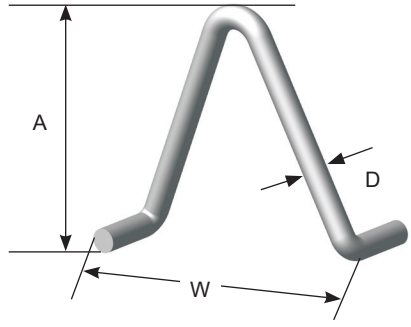
TT Recess Former

Designed for use with CONAC Double Tee and Safe Lift anchors.



Safe Lift Anchor

Designed for face-lifting solid panels or insulated panels with sufficient thickness of back wythe.



ITEM CODE	ANCHOR DEPTH (A)	ANCHOR WIDTH (W)	BODY DIAMETER (D)	PANEL DEPTH	SWL TENSION (LBS)	SWL SHEAR (LBS)
SF-ANCHOR 6T	7-3/4”	6”	.70”	8”	**10000**	**13000**

Safe working loads based on aproximate 4:1 Safety Factor in 4,000 psi normal weight concrete

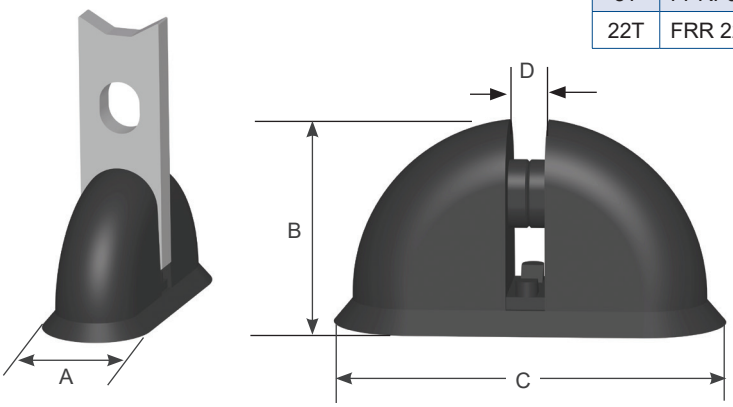
Flat Steel System

CONAC
Concrete Lifting Solutions

Rubber Recess Former

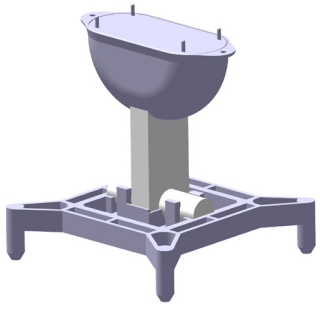
Reusable recess member. When attached to holding plate, allows positioning and handling of anchor.

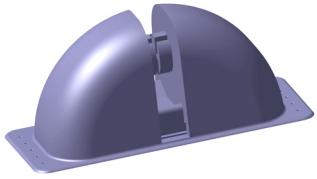
TON	ITEM CODE	A	B	C	D	SYSTEM CODE
2T	FPRF02	1-3/4"	2"	3-5/8"	3/8"	2.5T
4T	FPRF04	2-1/8"	2-5/16"	4-1/2"	5/8"	5.0T
8T	FPRF08	2-3/4"	3-1/2"	6-1/2"	3/4"	10.0T
22T	FRR 22	4-1/4"	4-5/8"	9-3/8"	1-1/4"	22.0T



Plastic Recess Former

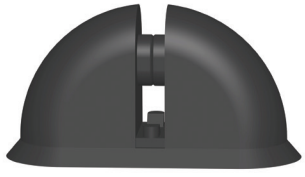
TON	ITEM CODE	A	B	C	D	SYSTEM CODE
4T	FPRF04-EA	1-7/8"	2-1/4"	4-15/16"	5/8"	5.0T
8T	FPRF08-EA	3-1/8"	3-1/4	7-7/8"	3/4"	10.0T
4T	FTARRF	PLASTIC FORMER FOR T-BAR ANCHOR				
4T	FTA BASE	PLASTIC BASE FOR T-BAR ANCHOR				





Magnetic Rubber Recess Former

To attach flat steel anchors to steel forms.

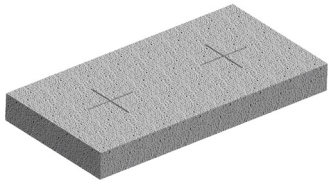


TON	ITEM CODE	A	B	C	D	SYSTEM CODE
2T	FRR02M	1-3/4"	2"	3-5/8"	3/8"	2.5T
4T	FRR04M	2-1/8"	2-5/16"	4-1/2"	5/8"	5.0T
8T	FRR08M	2-3/4"	3-1/2"	6-1/2"	3/4"	10.0T

Other sizes available by request.

Foam Strips

Prevents concrete entering the void when using steel recess former.



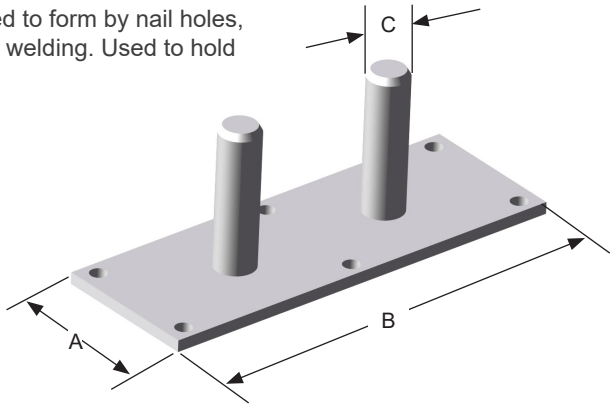
TON	ITEM CODE	A	SYSTEM CODE
2T	FEA02RF	1/4" X 1-3/4" X 4"	2.5T
4T	FEA04RF	1/4" X 1-3/4" X 4"	5.0T
8T	FEA08RF	5/8" X 3" X 6"	10.0T

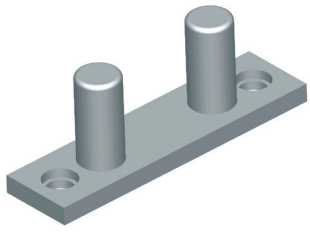
Flat Steel System

CONAC
Concrete Lifting Solutions

Holding Plate

May be attached to form by nail holes, screw holes, or welding. Used to hold recess former.

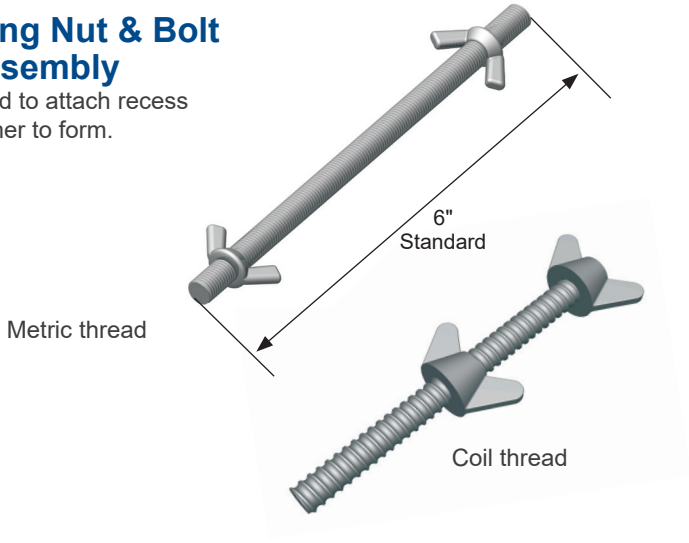




TON	ITEM CODE	A	B	C	SYSEM CODE
2T	FHP02	5/8"	2-3/4"	10mm	2.5T
4T	FHP04	1-1/4"	3-3/8"	10mm	5.0T
8T	FHP08	1-3/4"	4-7/8"	12mm	10.0T
22T	FHP22	2-1/2"	7"	16mm	22.0T

Wing Nut & Bolt Assembly

Used to attach recess former to form.

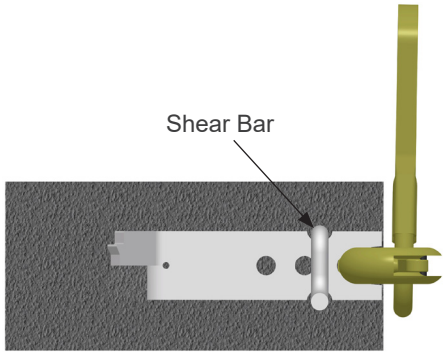


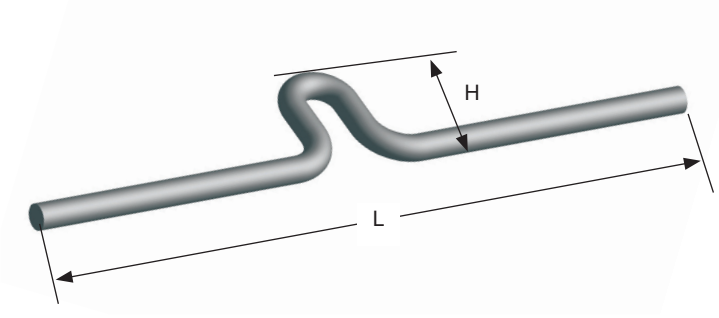
TON	ITEM CODE	STANDARD ROD LENGTH	THREAD DIAMETER & TYPE	SYSTEM CODE
2T	FWN02	6"	M8	2.5T
4T	FWN04	6"	M8	5.0T
8T	FWN08	6"	M12	10.0T
22T	FWNC 1/2"	5-1/2"	1/2" COIL	22.0T
	FWNC 1/2"	5-1/2"	1/2" COIL	5.0T
	FWNC 3/8"	6"	3/8" COIL	5.0T

Shear Bar

Used with flat steel erection anchor to increase shear capacity.

TON	ITEM CODE	SHEAR BAR DIAMETER	MIN. PANEL THICKNESS	HIGH (H)	LENGTH (L)	SYSTEM CODE
2T	FSB02	1/2"	4"	2-1/2"	13-7/8"	2.5T
4T	FSB04	1/2"	5-1/2"	3-5/16"	13-7/8"	5.0T
8T	FSB08	1/2"	7-1/2"	4-15/16"	13-7/8"	10.0T





Flat Steel System

CONAC
Concrete Lifting Solutions

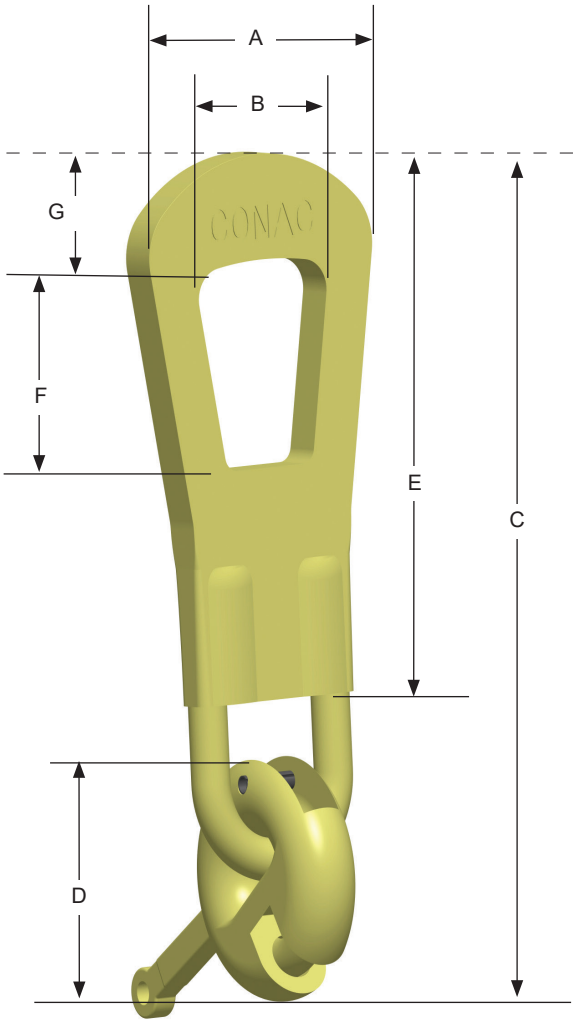
Ring Clutch With Bail

Designed to be used specifically for flat steel lifting.
Handle allows for safe locking of clutch into lifting position.
Standard finish plated.

TON	ITEM CODE	A	B	C	D	E	F	G	SYS. CODE
2-3T	FRC02 B	3-5/8"	2-1/8"	10-1/2"	3"	7"	2-3/4"	1-1/4"	2.5T
4-6T	FRC04 B	4-1/2"	2-5/8"	12-7/8"	4"	8-1/2"	3-1/2"	1-1/2"	5T
8-10T	FRC08 B	5-1/2"	3"	17"	5-7/8"	10-3/8"	4-1/2"	1-3/4"	10T
11T	FRC11 B	5-1/2"	3"	17"	5-7/8"	10-3/8"	4-1/2"	1-3/4"	10T
12T	FRC12 B	5-1/2"	3"	17"	5-7/8"	10-3/8"	4-1/2"	1-3/4"	10T
22T	FRC22 B	8-3/8"	4-1/2"	24"	8"	15"	6-3/4"	2-5/8"	22T

Safe working loads based on 5:1 Safety Factor.

TON	ITEM CODE	H
2-3T	FRC02B	0.559"
4-6T	FRC04B	0.728"
8-10T	FRC08B	0.885"
11T	FRC11B	0.885"
12T	FRC12B	0.885"
22T	FRC22B	1.385"



3. Operating Instructions

The CONAC Ring Clutch can be used for parallel/ transversal shear pulls (Figure 1 & 2) and straight tension pulls (figure 2).

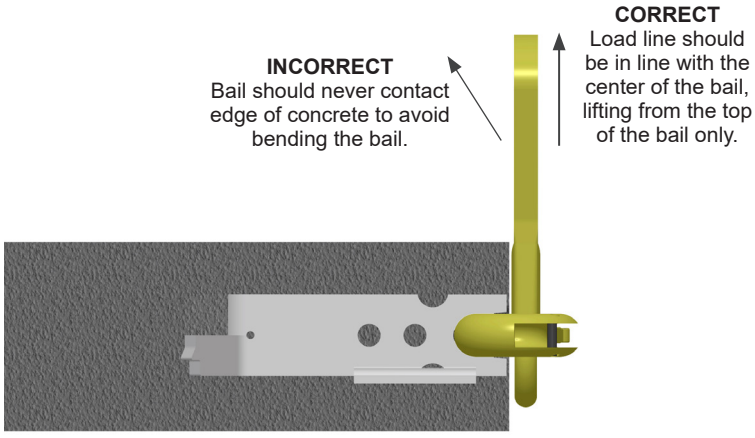


Figure 1

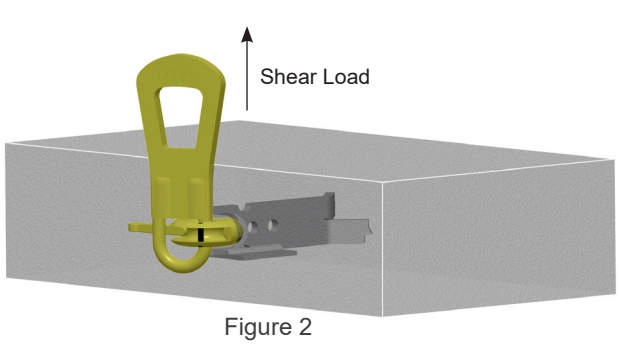


Figure 2

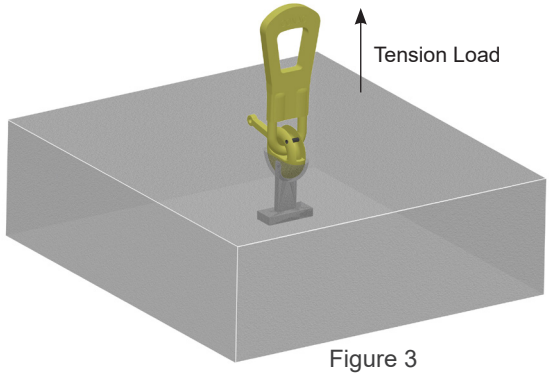


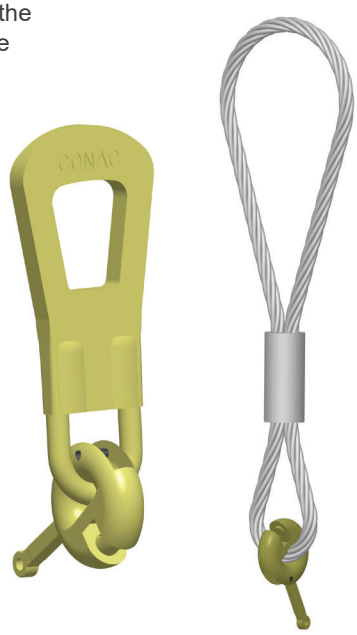
Figure 3

Operation and Maintenance

CONAC
Concrete Lifting Solutions

1. General

The CONAC Ring Clutch is a load lifting device. It engages the head of a Flat Steel anchor inside of the recess created by the CONAC Recess Former. The bail is made from robust, hardened and tempered cast steel. The CONAC Ring Clutch meets the requirements of the “Safety regulations for lifting precast concrete units". Important references include but are not limited to: OSHA Part 1926 and ANSI 10.9.



2. Identification

The identification meets the “Safety regulations for lifting precast concrete units" as follows:

Manufacturer	CONAC
Type	Ring Clutch
Size	e.g. 4T
Manufacture Year	e.g. 20
Batch Number	e.g.1234

3. Care, Inspection and Maintenance of Ring Clutches (For Both Steel Bail and Cable)

CONAC Flat Steel System Ring Clutches may become worn after extended use or may be damaged through misuse, overloading, or a number of other factors, any one of which may affect the Safe Working Load of the Ring Clutch.

Users must establish a system of periodic inspections which should include the following:

1. Inspect for general condition and wear.
2. Assure that the bail is free to rotate in all directions.
3. If the bail is bent or twisted, the clutch must be destroyed.
4. Check the curved bolt for wear, cracking or bending.
5. Check the clutch body for wear, cracking or deformation.
6. If it appears that the Ring Clutch has been heated in any way, the clutch must be destroyed.
7. Check the engagment slot, if the gap is larger than dimension H, the clutch must be destroyed.

Destroy any unit that is worn, damaged, bent or twisted by cutting off the bail. No repair or welding is permitted.

Flat Steel System

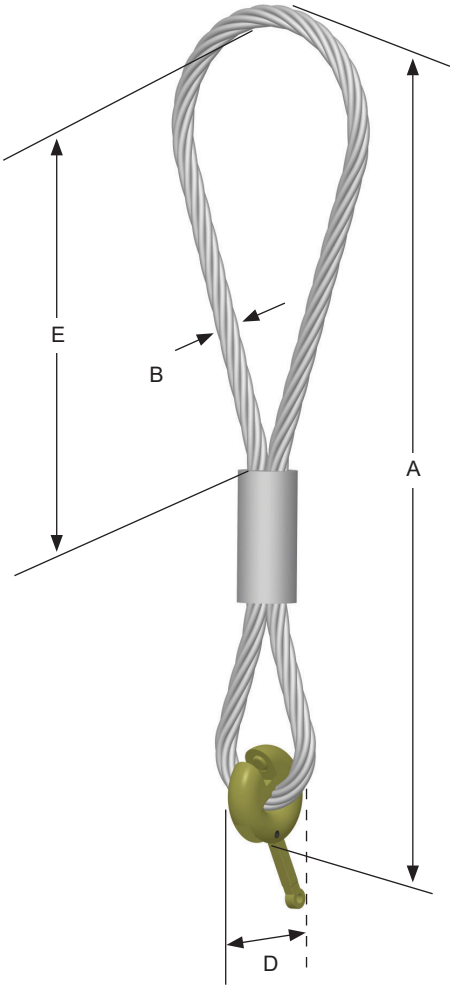
CONAC
Concrete Lifting Solutions

Ring Clutch W/Cable

Designed to be used specifically for flat steel lifting. Cable is more flexible than bail allowing some lattitude in the direction of lift. Handle allows for a more safe locking of clutch into lifting position.

TON	ITEM CODE	A	B	D	E	SYSTEM CODE
2-3T	FRC02	23-1/2"	14 mm	3"	12"	2.5T
4-6T	FRC04	25-1/2"	18 mm	4"	12"	5.0T
8-10T	FRC08	31"	22 mm	5-7/8"	12"	10.0T
11T	FRC11	31"	22 mm	5-7/8"	12"	10.0T

Safe working loads based on 5:1 Safety Factor.



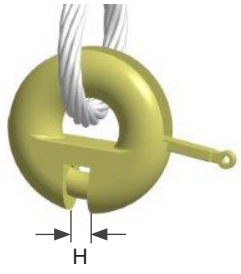
CARE, INSPECTION AND MAINTENANCE OF RING CLUTCHES (FOR BOTH STEEL BAIL AND CABLE BAIL)

CONAC Flat Steel System Ring Clutches may become worn after extended use or may be damaged through misuse, overloading, or a number of other factors, any one of which may affect the Safe Working Load of the Ring Clutch.

Responsible users will establish a system of periodic inspections which should include the following:

1. Inspect for general condition and wear.
2. Assure that the bail is free to rotate in all directions.
3. If the bail is bent or twisted, the clutch must be destroyed.
4. Check the curved bolt for wear, cracking or bending.
5. Check the clutch body for wear, cracking or deformation.
6. If it appears that the Ring Clutch has been heated in any way, the clutch must be destroyed.
7. Check the engagment slot, if the gap is larger than dimension H, the clutch must be destroyed.

TON	ITEM CODE	H (MAX)
2-3T	FRC02	0.619"
4-6T	FRC04	0.787"
8-10T	FRC08	0.944"
11T	FRC11	0.944"
12T	FRC12B	0.944"



ADDITIONAL INSPECTION OF CABLE BAIL

1. Inspect cable for general condition and wear.
2. Check cable for nicks, kinks, crushing or bends.
3. Check for frayed or loose outer strands.
4. Check for cable swelling.

If the cable is damaged, the Ring Clutch must be destroyed as above. Destroy any unit that is worn, damaged, bent or twisted by cutting off the bail. No repair or welding is permitted.

Notes