



2019 **DISTRIBUTOR** **CATALOG** **2020**

800.603.9965



RELY ON

EMI

**CONCRETE FORMING
SYSTEMS & ACCESSORIES**

RESIDENTIAL COMMERCIAL
PRECAST CONCRETE ACCESSORIES



RELY ON

EMI

FOR 35 YEARS, AN INDUSTRY LEADER

EMI is a leading manufacturer of concrete forming systems and accessories available through concrete product distributors. As a privately-held, customer-focused business, EMI is known for a broad product line backed by great customer service, including excellent delivery. You can rely on EMI: steel frame forming systems, aluminum forming hardware and a wide range of accessories such as slab bolster, bar ties, rebar tie wire, coil rod and anchor bolts. You'll find EMI at distributors throughout the Americas. World-class engineering, competitive pricing and on-time delivery ...you can rely on EMI.

MISSION STATEMENT

Leader in Design and Service

To satisfy our customers' requirements today and tomorrow by creating and securing profitable business through challenging opportunities for our employees and becoming the preferred partner of our customers.

CUSTOMER CARE

As a family-owned business, EMI Construction Products uses a hands-on approach to meet our customers' needs and expectations. We continually strive to provide quality products, on time, and at a competitive price. We invite you to visit our website www.emisupplies.com or contact a sales representative at 1-800-603-9965 with your product questions. See page 89 for a list of Terms & Conditions.

RESIDENTIAL, COMMERCIAL AND INDUSTRIAL

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PRECAST

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ELITE SERIES STEEL/PLYWOOD PANELS & FILLERS**Winning Foundations Start with Elite Forming Systems**

Concrete professionals know Elite Forming Systems are the best tools for the job: setting more foundations in less time and with fewer issues. That's because Elite is built tough to exact standards. Rugged steel frames are robotically welded for consistent strength and fit across all panels, fillers and corners. Exclusive DuraCoat powder coating helps keep the frame rust-free under the harshest conditions. Top grade 1/2" HDO plywood is machine riveted to rugged 60,000 psi rolled steel frames for smooth, flat surfaces. Precise panel alignment, ease of handling and longer lasting performance make the Elite Series a better investment.

Elite Series Features:

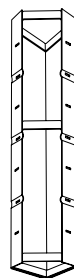
- DuraCoat red powder-coated finish for faster clean-up, greater weatherability. Additional colors may be available. Call for details.
- Full line of panel heights, filler widths, corners, angles and metal fillers for creating virtually any form layout quickly and efficiently
- Rugged 60,000 psi rolled steel frame exceeds industry standards
- A full 2" angle cross member assures unsurpassed frame strength and plywood support
- Dado slots for tie placement are located at 12" on center. A new feature of the Elite Series is Dado slots at 6" and 18" from each end of panel.
- Wedgebolt/accessory slots located at 6" on center
- EZ Lift handles for easier transport, set up and take down
- Manufactured to precise dimensions for consistent, accurate form alignment with no grout leakage
- No special tools required; fits most other systems
- Backed by EMI world-class service
- 2-to-1 safety factor
- Maximum pour pressure of 1,000 pounds per square foot

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
10' HEIGHT					
149-2410	24" x 10' Panel	each	1	99	40
149-2210	22" x 10' Filler	each	1	94	40
149-2010	20" x 10' Filler	each	1	88	40
149-1810	18" x 10' Filler	each	1	82	40
149-1610	16" x 10' Filler	each	1	76	40
149-1410	14" x 10' Filler	each	1	70	40
149-1210	12" x 10' Filler	each	1	64	80
149-1010	10" x 10' Filler	each	1	58	80
149-0810	8" x 10' Filler	each	1	52	80
149-0610	6" x 10' Filler	each	1	46	80
149-0510	5" x 10' Filler	each	1	44	80
149-0410	4" x 10' Filler	each	1	42	80
058-0210	2" x 10' Metal Filler	each	1	30	100
058-0110	1 1/2" x 10' Metal Filler	each	1	27	100
058-0010	1" x 10' Metal Filler	each	1	24	100
057-0610	6"x10' Inside Corner	each	1	82	48
057-0410	4"x10' Inside Corner	each	1	62	60
057-2010	10' Inside Bay Corner	each	1	43	64
059-0010	10' Outside Corner	each	1	32	200
059-1110	10' Outside Bay Corner	each	1	98	24
056-0010	10' Filler Angle	each	1	14	200

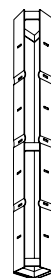
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
9' HEIGHT					
149-2409	24" x 9' Panel	each	1	94	40
149-2209	22" x 9' Filler	each	1	84	40
149-2009	20" x 9' Filler	each	1	82	40
149-1809	18" x 9' Filler	each	1	80	40
149-1609	16" x 9' Filler	each	1	71	60
149-1409	14" x 9' Filler	each	1	68	60
149-1209	12" x 9' Filler	each	1	62	80
149-1009	10" x 9' Filler	each	1	55	80
149-0809	8" x 9' Filler	each	1	49	100
149-0609	6" x 9' Filler	each	1	44	100
149-0509	5" x 9' Filler	each	1	42	100
149-0409	4" x 9' Filler	each	1	39	100
058-0209	2" x 9' Filler	each	1	26	100
058-0109	1-1/2" x 9' Metal Filler	each	1	24	100
058-0009	1" x 9' Metal Filler	each	1	21	100
057-0609	6" x 9' Inside Corner	each	1	75	48
057-0409	4" x 9' Inside Corner	each	1	54	60
057-1609	6" x 9' Inside Hinged	each	1	73	50
057-2009	9' Inside Bay Corner	each	1	38	64
059-0009	9' Outside Corner	each	1	29	200
059-1009	9' Outside Hinged	each	1	32	100
059-1109	9' Outside Bay Corner	each	1	78	24
056-0009	9' Filler Angle	each	1	12	240

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
8' HEIGHT					
149-2408	24" x 8' Panel	each	1	88	40
149-2208	22" x 8' Filler	each	1	78	40
149-2008	20" x 8' Filler	each	1	74	40
149-1808	18" x 8' Filler	each	1	69	40
149-1608	16" x 8' Filler	each	1	66	60
149-1408	14" x 8' Filler	each	1	61	60
149-1208	12" x 8' Filler	each	1	57	80
149-1008	10" x 8' Filler	each	1	51	80
149-0808	8" x 8' Filler	each	1	45	100
149-0608	6" x 8' Filler	each	1	41	100
149-0508	5" x 8' Filler	each	1	39	100
149-0408	4" x 8' Filler	each	1	36	100
058-0208	2" x 8' Metal Filler	each	1	23	150
058-0108	1-1/2" x 8' Metal Filler	each	1	21	150
058-0008	1" x 8' Metal Filler	each	1	18	150
057-0608	6" x 8' Inside Corner	each	1	68	48
057-0408	4" x 8' Inside Corner	each	1	46	60
057-1608	6" x 8' Inside Hinged	each	1	64	50
057-2008	8' Inside Bay Corner	each	1	34	64
059-0008	8' Outside Corner	each	1	26	200
059-1008	8' Outside Hinged	each	1	30	100
059-1108	8' Outside Bay Corner	each	1	60	39
056-0008	8' Filler Angle	each	1	11	300
310-1608	8' Pilaster Form	each	1	86	24
6' HEIGHT					
149-2406	24" x 6' Panel	each	1	63	40
149-2206	22" x 6' Filler	each	1	59	40
149-2006	20" x 6' Filler	each	1	58	40
149-1806	18" x 6' Filler	each	1	52	40
149-1606	16" x 6' Filler	each	1	51	60
149-1406	14" x 6' Filler	each	1	48	60
149-1206	12" x 6' Filler	each	1	44	80
149-1006	10" x 6' Filler	each	1	39	80
149-0806	8" x 6' Filler	each	1	36	100
149-0606	6" x 6' Filler	each	1	32	100
149-0506	5" x 6' Filler	each	1	30	100
149-0406	4" x 6' Filler	each	1	27	100
058-0206	2" x 6' Metal Filler	each	1	17	150
058-0106	1-1/2" x 6' Metal Filler	each	1	15	200
058-0006	1" x 6' Metal Filler	each	1	13	200
057-0606	6" x 6' Inside Corner	each	1	52	48
057-0406	4" x 6' Inside Corner	each	1	37	60
057-1606	6" x 6' Inside Hinged	each	1	47	50
057-2006	6' Inside Bay Corner	each	1	25	64
059-0006	6' Outside Corner	each	1	18	200
059-1006	6' Outside Hinged	each	1	23	100
059-1106	6' Outside Bay Corner	each	1	46	45
056-0006	6' Filler Angle	each	1	8	300
310-1606	6' Pilaster Form	each	1	65	40

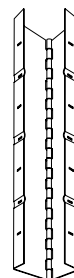
Elite Inside Corner



6" x 6"
standard



4" x 4"
standard



6" x 6"
hinged

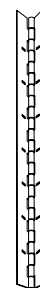


inside bay

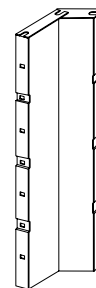
Elite Outside Corner



standard

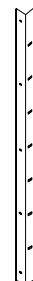


hinged



outside bay

Elite Filler Angle



Elite Metal Filler (All Steel)



Elite Pilaster Form



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
5' HEIGHT					
149-2405	24" x 5' Panel	each	1	55	40
149-2205	22" x 5' Filler	each	1	52	40
149-2005	20" x 5' Filler	each	1	49	40
149-1805	18" x 5' Filler	each	1	46	40
149-1605	16" x 5' Filler	each	1	43	60
149-1405	14" x 5' Filler	each	1	40	60
149-1205	12" x 5' Filler	each	1	36	80
149-1005	10" x 5' Filler	each	1	32	80
149-0805	8" x 5' Filler	each	1	27	100
149-0605	6" x 5' Filler	each	1	26	100
149-0505	5" x 5' Filler	each	1	24	100
149-0405	4" x 5' Filler	each	1	22	100
058-0205	2" x 5' Metal Filler	each	1	15	200
058-0105	1-1/2" x 5' Metal Filler	each	1	13	200
058-0005	1" x 5' Metal Filler	each	1	11	200
057-0605	6" x 5' Inside Corner	each	1	43	48
057-0405	4" x 5' Inside Corner	each	1	31	60
057-1605	6" x 5' Inside Hinged	each	1	42	50
057-2005	5' Inside Bay Corner	each	1	20	64
059-0005	5' Outside Corner	each	1	16	200
059-1005	5' Outside Hinged	each	1	19	100
059-1105	5' Outside Bay Corner	each	1	37	45
056-0005	5' Filler Angle	each	1	7	300
310-1605	5' Pilaster Form	each	1	52	50

4' HEIGHT					
149-2404	24" x 4' Panel	each	1	43	40
149-2204	22" x 4' Filler	each	1	40	40
149-2004	20" x 4' Filler	each	1	39	40
149-1804	18" x 4' Filler	each	1	38	40
149-1604	16" x 4' Filler	each	1	34	60
149-1404	14" x 4' Filler	each	1	32	60
149-1204	12" x 4' Filler	each	1	29	80
149-1004	10" x 4' Filler	each	1	27	80
149-0804	8" x 4' Filler	each	1	23	100
149-0604	6" x 4' Filler	each	1	21	100
149-0504	5" x 4' Filler	each	1	20	100
149-0404	4" x 4' Filler	each	1	18	100
058-0204	2" x 4' Metal Filler	each	1	11	200
058-0104	1-1/2" x 4' Metal Filler	each	1	10	200
058-0004	1" x 4' Metal Filler	each	1	9	200
057-0604	6" x 4' Inside Corner	each	1	34	48
057-0404	4" x 4' Inside Corner	each	1	25	60
057-1604	6" x 4' Inside Hinged	each	1	31	50
057-2004	4' Inside Bay Corner	each	1	17	64
059-0004	4' Outside Corner	each	1	14	200
059-1004	4' Outside Hinged	each	1	16	100
059-1104	4' Outside Bay Corner	each	1	30	51
056-0004	4' Filler Angle	each	1	5	300
310-1604	4' Pilaster Form	each	1	42	50

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
3' HEIGHT					
149-2403	24" x 3' Panel	each	1	36	40
149-2203	22" x 3' Filler	each	1	31	40
149-2003	20" x 3' Filler	each	1	28	40
149-1803	18" x 3' Filler	each	1	27	40
149-1603	16" x 3' Filler	each	1	25	60
149-1403	14" x 3' Filler	each	1	22	60
149-1203	12" x 3' Filler	each	1	21	80
149-1003	10" x 3' Filler	each	1	20	80
149-0803	8" x 3' Filler	each	1	17	100
149-0603	6" x 3' Filler	each	1	15	100
149-0503	5" x 3' Filler	each	1	14	100
149-0403	4" x 3' Filler	each	1	13	100
058-0203	2" x 3' Metal Filler	each	1	9	200
058-0103	1-1/2" x 3' Metal Filler	each	1	8	200
058-0003	1" x 3' Metal Filler	each	1	7	200
057-0603	6" x 3' Inside Corner	each	1	27	48
057-0403	4" x 3' Inside Corner	each	1	20	60
057-1603	6" x 3' Inside Hinged	each	1	25	50
057-2003	3' Inside Bay Corner	each	1	13	64
059-0003	3' Outside Corner	each	1	10	200
059-1003	3' Outside Hinged	each	1	11	100
059-1103	3' Outside Bay Corner	each	1	23	51
056-0003	3' Filler Angle	each	1	4	300
310-1603	3' Pilaster Form	each	1	34	50

2' HEIGHT					
149-2402	24" x 2' Panel	each	1	30	40
149-2202	22" x 2' Filler	each	1	26	40
149-2002	20" x 2' Filler	each	1	23	40
149-1802	18" x 2' Filler	each	1	19	40
149-1602	16" x 2' Filler	each	1	17	60
149-1402	14" x 2' Filler	each	1	16	60
149-1202	12" x 2' Filler	each	1	15	80
149-1002	10" x 2' Filler	each	1	14	80
149-0802	8" x 2' Filler	each	1	12	100
149-0602	6" x 2' Filler	each	1	11	100
149-0502	5" x 2' Filler	each	1	10	100
149-0402	4" x 2' Filler	each	1	8	100
058-0202	2" x 2' Metal Filler	each	1	6	200
058-0102	1-1/2" x 2' Metal Filler	each	1	5	200
058-0002	1" x 2' Metal Filler	each	1	4	200
057-0602	6" x 2' Inside Corner	each	1	18	48
057-0402	4" x 2' Inside Corner	each	1	13	60
059-0002	2' Outside Corner	each	1	7	200
056-0002	2' Filler Angle	each	1	3	300

■ Bay corners available by special order

ELITE PANELS WITH XACT2FORM PLYWOOD



- DuraCoat red powder-coated finish for faster clean-up, greater weatherability. Additional colors may be available. Call for details.
- 100% Birch panel offering LONG and SHORT GRAIN face directional veneer
- Standard 220/220 Finnish PSF (Phenolic Saturated Film)
- Exceptionally smooth uniform surface virtually eliminating grain transfer
- Engineered multi-ply lay-up, which provides exceptional panel flatness
- Top two layers are fully wood patched, effectively eliminates veneer collapse
- Offers the lowest cost per pour of any architectural panel available

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
8' HEIGHT					
139-2408	24"x 8' Elite Pnl w/ Birch Wd	each	1	88	40
139-2208	22"x 8' Elite Pnl w/ Birch Wd	each	1	78	40
139-2008	20"x 8' Elite Pnl w/ Birch Wd	each	1	74	40
139-1808	18"x 8' Elite Pnl w/ Birch Wd	each	1	69	40
139-1608	16"x 8' Elite Pnl w/ Birch Wd	each	1	66	60
139-1408	14"x 8' Elite Pnl w/ Birch Wd	each	1	61	60
139-1208	12"x 8' Elite Pnl w/ Birch Wd	each	1	57	80
139-1008	10"x 8' Elite Pnl w/ Birch Wd	each	1	51	80
139-0808	8"x 8' Elite Pnl w/ Birch Wd	each	1	45	100
139-0608	6"x 8' Elite Pnl w/ Birch Wd	each	1	41	100
139-0508	5"x 8' Elite Pnl w/ Birch Wd	each	1	39	100
139-0408	4"x 8' Elite Pnl w/ Birch Wd	each	1	36	100
6' HEIGHT					
139-2406	24"x 6' Elite Pnl w/ Birch Wd	each	1	63	40
139-2206	22"x 6' Elite Pnl w/ Birch Wd	each	1	59	40
139-2006	20"x 6' Elite Pnl w/ Birch Wd	each	1	58	40
139-1806	18"x 6' Elite Pnl w/ Birch Wd	each	1	52	40
139-1606	16"x 6' Elite Pnl w/ Birch Wd	each	1	51	60
139-1406	14"x 6' Elite Pnl w/ Birch Wd	each	1	48	60
139-1206	12"x 6' Elite Pnl w/ Birch Wd	each	1	44	80
139-1006	10"x 6' Elite Pnl w/ Birch Wd	each	1	39	80
139-0806	8"x 6' Elite Pnl w/ Birch Wd	each	1	36	100
139-0606	6"x 6' Elite Pnl w/ Birch Wd	each	1	32	100
139-0506	5"x 6' Elite Pnl w/ Birch Wd	each	1	30	100
139-0406	4"x 6' Elite Pnl w/ Birch Wd	each	1	27	100

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
5' HEIGHT					
139-2405	24"x 5' Elite Pnl w/ Birch Wd	each	1	55	40
139-2205	22"x 5' Elite Pnl w/ Birch Wd	each	1	52	40
139-2005	20"x 5' Elite Pnl w/ Birch Wd	each	1	49	40
139-1805	18"x 5' Elite Pnl w/ Birch Wd	each	1	46	40
139-1605	16"x 5' Elite Pnl w/ Birch Wd	each	1	43	60
139-1405	14"x 5' Elite Pnl w/ Birch Wd	each	1	40	60
139-1205	12"x 5' Elite Pnl w/ Birch Wd	each	1	36	80
139-1005	10"x 5' Elite Pnl w/ Birch Wd	each	1	32	80
139-0805	8"x 5' Elite Pnl w/ Birch Wd	each	1	27	100
139-0605	6"x 5' Elite Pnl w/ Birch Wd	each	1	26	100
139-0505	5"x 5' Elite Pnl w/ Birch Wd	each	1	24	100
139-0405	4"x 5' Elite Pnl w/ Birch Wd	each	1	22	100

4' HEIGHT					
139-2404	24"x 4' Elite Pnl w/ Birch Wd	each	1	43	40
139-2204	22"x 4' Elite Pnl w/ Birch Wd	each	1	40	40
139-2004	20"x 4' Elite Pnl w/ Birch Wd	each	1	39	40
139-1804	18"x 4' Elite Pnl w/ Birch Wd	each	1	38	40
139-1604	16"x 4' Elite Pnl w/ Birch Wd	each	1	34	60
139-1404	14"x 4' Elite Pnl w/ Birch Wd	each	1	32	60
139-1204	12"x 4' Elite Pnl w/ Birch Wd	each	1	29	80
139-1004	10"x 4' Elite Pnl w/ Birch Wd	each	1	27	80
139-0804	8"x 4' Elite Pnl w/ Birch Wd	each	1	23	100
139-0604	6"x 4' Elite Pnl w/ Birch Wd	each	1	21	100
139-0504	5"x 4' Elite Pnl w/ Birch Wd	each	1	20	100
139-0404	4"x 4' Elite Pnl w/ Birch Wd	each	1	18	100

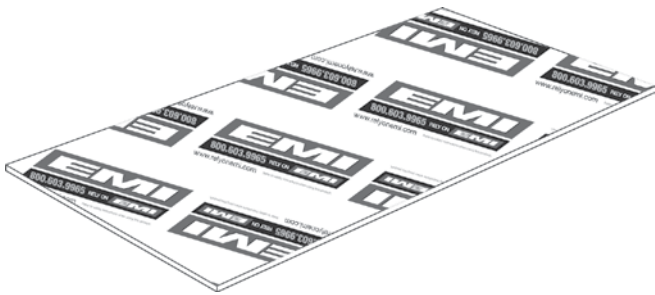
3' HEIGHT					
139-2403	24"x 3' Elite Pnl w/ Birch Wd	each	1	36	40
139-2203	22"x 3' Elite Pnl w/ Birch Wd	each	1	31	40
139-2003	20"x 3' Elite Pnl w/ Birch Wd	each	1	28	40
139-1803	18"x 3' Elite Pnl w/ Birch Wd	each	1	27	40
139-1603	16"x 3' Elite Pnl w/ Birch Wd	each	1	25	60
139-1403	14"x 3' Elite Pnl w/ Birch Wd	each	1	22	60
139-1203	12"x 3' Elite Pnl w/ Birch Wd	each	1	21	80
139-1003	10"x 3' Elite Pnl w/ Birch Wd	each	1	20	80
139-0803	8"x 3' Elite Pnl w/ Birch Wd	each	1	17	100
139-0603	6"x 3' Elite Pnl w/ Birch Wd	each	1	15	100
139-0503	5"x 3' Elite Pnl w/ Birch Wd	each	1	14	100
139-0403	4"x 3' Elite Pnl w/ Birch Wd	each	1	13	100

2' HEIGHT					
139-2402	24"x 2' Elite Pnl w/ Birch Wd	each	1	31	40
139-2202	22"x 2' Elite Pnl w/ Birch Wd	each	1	27	40
139-2002	20"x 2' Elite Pnl w/ Birch Wd	each	1	24	40
139-1802	18"x 2' Elite Pnl w/ Birch Wd	each	1	20	40
139-1602	16"x 2' Elite Pnl w/ Birch Wd	each	1	18	60
139-1402	14"x 2' Elite Pnl w/ Birch Wd	each	1	17	60
139-1202	12"x 2' Elite Pnl w/ Birch Wd	each	1	16	80
139-1002	10"x 2' Elite Pnl w/ Birch Wd	each	1	15	80
139-0802	8"x 2' Elite Pnl w/ Birch Wd	each	1	13	100
139-0602	6"x 2' Elite Pnl w/ Birch Wd	each	1	12	100
139-0502	5"x 2' Elite Pnl w/ Birch Wd	each	1	11	100
139-0402	4"x 2' Elite Pnl w/ Birch Wd	each	1	8	100

HDO PLYWOOD REPLACEMENT FACING

Cleaner Facing, Smoother Pours

EMI Elite 1/2" HDO 5-Ply premium plywood features a strong, long-lasting, smooth pouring surface that releases cleanly and resists chipping and nail breakout. Edges are sealed, resisting moisture, oil, alkali, and concrete adhesion.



Specs:

- 5-ply premium plywood
- 1/2" thick
- 100/30 spc. HDO
- all four edges sealed and squared
- special sizes available
- 5/8" thick available – 50/Skid

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID
146-4896	48" x 96" HDO	each	1	52	69
146-48120	48" x 120" HDO	each	1	68	50
146-24120	24" x 120" HDO	each	1	34	100
146-24108	24" x 108" HDO	each	1	30	100
146-2496	24" x 96" HDO	each	1	26	132
146-2472	24" x 72" HDO	each	1	19	132
146-2460	24" x 60" HDO	each	1	17	132
146-2448	24" x 48" HDO	each	1	13	132
146-2436	24" x 36" HDO	each	1	10	132
146-22120	22" x 120" HDO	each	1	30	100
146-22108	22" x 108" HDO	each	1	27	100
146-2296	22" x 96" HDO	each	1	24	132
146-2272	22" x 72" HDO	each	1	18	132
146-2260	22" x 60" HDO	each	1	15	132
146-2248	22" x 48" HDO	each	1	12	132
146-2236	22" x 36" HDO	each	1	9	132
146-20120	20" x 120" HDO	each	1	28	100
146-20108	20" x 108" HDO	each	1	25	100
146-2096	20" x 96" HDO	each	1	22	132
146-2072	20" x 72" HDO	each	1	17	132
146-2060	20" x 60" HDO	each	1	14	132
146-2048	20" x 48" HDO	each	1	11	132
146-2036	20" x 36" HDO	each	1	9	132
146-18120	18" x 120" HDO	each	1	24	100
146-18108	18" x 108" HDO	each	1	22	100
146-1896	18" x 96" HDO	each	1	20	132
146-1872	18" x 72" HDO	each	1	15	132
146-1860	18" x 60" HDO	each	1	13	132
146-1848	18" x 48" HDO	each	1	10	132

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID
146-1836	18" x 36" HDO	each	1	8	132
146-16120	16" x 120" HDO	each	1	22	160
146-16108	16" x 108" HDO	each	1	20	160
146-1696	16" x 96" HDO	each	1	18	198
146-1672	16" x 72" HDO	each	1	13	198
146-1660	16" x 60" HDO	each	1	11	198
146-1648	16" x 48" HDO	each	1	9	198
146-1636	16" x 36" HDO	each	1	7	198
146-14120	14" x 120" HDO	each	1	20	160
146-14108	14" x 108" HDO	each	1	18	160
146-1496	14" x 96" HDO	each	1	16	198
146-1472	14" x 72" HDO	each	1	12	198
146-1460	14" x 60" HDO	each	1	10	198
146-1448	14" x 48" HDO	each	1	8	198
146-1436	14" x 36" HDO	each	1	6	198
146-12120	12" x 120" HDO	each	1	17	200
146-12108	12" x 108" HDO	each	1	15	200
146-1296	12" x 96" HDO	each	1	13	264
146-1272	12" x 72" HDO	each	1	10	264
146-1260	12" x 60" HDO	each	1	9	264
146-1248	12" x 48" HDO	each	1	7	264
146-1236	12" x 36" HDO	each	1	5	264
146-10120	10" x 120" HDO	each	1	14	264
146-10108	10" x 108" HDO	each	1	13	264
146-1096	10" x 96" HDO	each	1	11	264
146-1072	10" x 72" HDO	each	1	9	264
146-1060	10" x 60" HDO	each	1	7	264
146-1048	10" x 48" HDO	each	1	6	264
146-1036	10" x 36" HDO	each	1	5	264
146-08120	8" x 120" HDO	each	1	11	396
146-08108	8" x 108" HDO	each	1	10	396
146-0896	8" x 96" HDO	each	1	9	396
146-0872	8" x 72" HDO	each	1	7	396
146-0860	8" x 60" HDO	each	1	6	396
146-0848	8" x 48" HDO	each	1	5	396
146-0836	8" x 36" HDO	each	1	4	396
146-06120	6" x 120" HDO	each	1	9	420
146-06108	6" x 108" HDO	each	1	8	420
146-0696	6" x 96" HDO	each	1	7	528
146-0672	6" x 72" HDO	each	1	5	528
146-0660	6" x 60" HDO	each	1	5	528
146-0648	6" x 48" HDO	each	1	4	528
146-0636	6" x 36" HDO	each	1	3	528
146-05120	5" x 120" HDO	each	1	8	600
146-05108	5" x 108" HDO	each	1	7	600
146-0596	5" x 96" HDO	each	1	6	600
146-0572	5" x 72" HDO	each	1	5	600
146-0560	5" x 60" HDO	each	1	4	600
146-0548	5" x 48" HDO	each	1	4	600
146-0536	5" x 36" HDO	each	1	3	600
146-04120	4" x 120" HDO	each	1	6	792
146-04108	4" x 108" HDO	each	1	5	792
146-0496	4" x 96" HDO	each	1	5	792
146-0472	4" x 72" HDO	each	1	4	792
146-0460	4" x 60" HDO	each	1	3	792
146-0448	4" x 48" HDO	each	1	3	792
146-0436	4" x 36" HDO	each	1	2	792

XACT2FORM PLYWOOD REPLACEMENT FACING

EMI Elite 1/2" Xact2form® plywood offers a two-sided 220/220 PSF finish.



Specs:

- 9-ply premium plywood
- 1/2" thick
- 220/220 PSF finish
- all four edges sealed and squared
- special sizes available

Manufactured from 100% birch, slow grown in the chilly Siberian forests, this wood species is chosen for its tight grain cell structure and unprecedented strength characteristics. Xact2form® is a 100% birch panel offering LONG and SHORT GRAIN face directional veneer in a multi-ply construction.

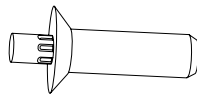
- Standard 220/220 Finnish PSF (Phenolic Saturated Film)
- Produced in a two-step lay-up manufacturing process that gives an exceptionally smooth uniform surface, virtually eliminating grain transfer more commonly found in a one-step process
- Engineered multi-ply lay-up, which provides exceptional panel flatness
- Top two layers on each face are fully wood patched, effectively eliminating surface degradation after multiple reuses due to face veneer collapse
- Offers the lowest cost per pour of any architectural panel available today
- Used in free form, gang form or engineered frame system

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
154-4896	48" x 96" Xact2	each	1	52	69
154-2496	24" x 96" Xact2	each	1	26	132
154-2472	24" x 72" Xact2	each	1	19	132
154-2460	24" x 60" Xact2	each	1	17	132
154-2448	24" x 48" Xact2	each	1	13	132
154-2436	24" x 36" Xact2	each	1	10	132
154-2296	22" x 96" Xact2	each	1	24	132
154-2272	22" x 72" Xact2	each	1	18	132
154-2260	22" x 60" Xact2	each	1	15	132
154-2248	22" x 48" Xact2	each	1	12	132
154-2236	22" x 36" Xact2	each	1	9	132
154-2096	20" x 96" Xact2	each	1	22	132
154-2072	20" x 72" Xact2	each	1	17	132
154-2060	20" x 60" Xact2	each	1	14	132
154-2048	20" x 48" Xact2	each	1	11	132
154-2036	20" x 36" Xact2	each	1	9	132
154-1896	18" x 96" Xact2	each	1	20	132
154-1872	18" x 72" Xact2	each	1	15	132
154-1860	18" x 60" Xact2	each	1	13	132
154-1848	18" x 48" Xact2	each	1	10	132
154-1836	18" x 36" Xact2	each	1	8	132
154-1696	16" x 96" Xact2	each	1	18	198
154-1672	16" x 72" Xact2	each	1	13	198
154-1660	16" x 60" Xact2	each	1	11	198
154-1648	16" x 48" Xact2	each	1	9	198
154-1636	16" x 36" Xact2	each	1	7	198
154-1496	14" x 96" Xact2	each	1	16	198
154-1472	14" x 72" Xact2	each	1	12	198
154-1460	14" x 60" Xact2	each	1	10	198
154-1448	14" x 48" Xact2	each	1	8	198
154-1436	14" x 36" Xact2	each	1	6	198
154-1296	12" x 96" Xact2	each	1	13	264
154-1272	12" x 72" Xact2	each	1	10	264

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
154-1260	12" x 60" Xact2	each	1	9	264
154-1248	12" x 48" Xact2	each	1	7	264
154-1236	12" x 36" Xact2	each	1	5	264
154-1096	10" x 96" Xact2	each	1	11	264
154-1072	10" x 72" Xact2	each	1	9	264
154-1060	10" x 60" Xact2	each	1	7	264
154-1048	10" x 48" Xact2	each	1	6	264
154-1036	10" x 36" Xact2	each	1	5	264
154-0896	8" x 96" Xact2	each	1	9	396
154-0872	8" x 72" Xact2	each	1	7	396
154-0860	8" x 60" Xact2	each	1	6	396
154-0848	8" x 48" Xact2	each	1	5	396
154-0836	8" x 36" Xact2	each	1	4	396
154-0696	6" x 96" Xact2	each	1	7	528
154-0672	6" x 72" Xact2	each	1	5	528
154-0660	6" x 60" Xact2	each	1	5	528
154-0648	6" x 48" Xact2	each	1	4	528
154-0636	6" x 36" Xact2	each	1	3	528
154-0596	5" x 96" Xact2	each	1	6	600
154-0572	5" x 72" Xact2	each	1	5	600
154-0560	5" x 60" Xact2	each	1	4	600
154-0548	5" x 48" Xact2	each	1	4	600
154-0536	5" x 36" Xact2	each	1	3	600
154-0496	4" x 96" Xact2	each	1	5	792
154-0472	4" x 72" Xact2	each	1	4	792
154-0460	4" x 60" Xact2	each	1	3	792
154-0448	4" x 48" Xact2	each	1	3	792
154-0436	4" x 36" Xact2	each	1	2	792

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
153-4896	3/4" x 48" x 96" Xact2 (14 ply)	each	1	89	25

POP RIVET



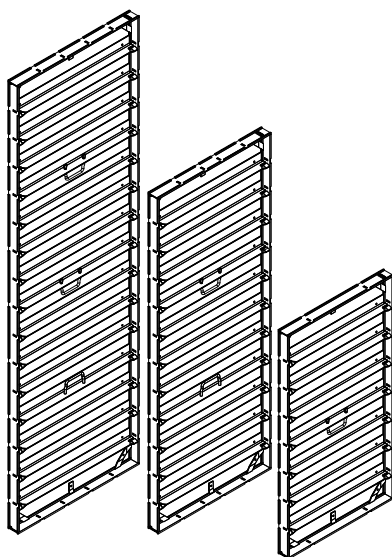
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-5002	1/2" Pop Rivets	box	100	.5	N/A
050-5003	5/8" Pop Rivets	box	100	.6	N/A

■ Discounts available at 10,000 pieces

The EMI Pop Rivet is a rivet that allows the contractor to replace the HDO Plywood in his forms and fillers himself. Just put rivet in place and strike pin down with hammer to secure rivet.

ELITE HEAVY DUTY FORM

The Elite Heavy Duty Form will help today's contractor increase his productivity and at the same time improve the quality of his workmanship. With 2"x2" cross bracing every 6", the Elite Heavy Duty Form reduces pillowing and safely allows for increased rate of pour. These forms are ideal for column forming and also for larger jobs when gang forming is advantageous.



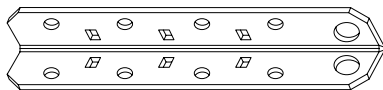
Features:

- DuraCoat powder-coated finish resists rust and decreases clean up time
- Rugged 60,000 psi rolled steel frame exceeds industry standards
- 2"x2" angle iron cross bracing every 6" allows for increased rate of pour
- Dado slots for tie placement are located at 12" on center
- Wedge bolt and accessory slots located at 6" on center
- Manufactured to precise dimensions for consistent, accurate form alignment with no grout leakage
- Backed by EMI world-class service
- Allows for 2000 PSF pour rate up to 24" and 1000 PSF for 36" columns
- Cross braces every 6"

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
311-3009	30" x 9' Column Form	each	1	143	20
311-2809	28" x 9' Column Form	each	1	138	20
311-2609	26" x 9' Column Form	each	1	133	20
311-2409	24" x 9' Column Form	each	1	127	20
311-2209	22" x 9' Column Form	each	1	121	30
311-2009	20" x 9' Column Form	each	1	116	30
311-1809	18" x 9' Column Form	each	1	111	30
311-1609	16" x 9' Column Form	each	1	106	30
311-3008	30" x 8' Column Form	each	1	127	20
311-2808	28" x 8' Column Form	each	1	123	20
311-2608	26" x 8' Column Form	each	1	118	20
311-2408	24" x 8' Column Form	each	1	113	30
311-2208	22" x 8' Column Form	each	1	108	30
311-2008	20" x 8' Column Form	each	1	103	30
311-1808	18" x 8' Column Form	each	1	97	30
311-1608	16" x 8' Column Form	each	1	91	30
311-3006	30" x 6' Column Form	each	1	99	20
311-2806	28" x 6' Column Form	each	1	94	20
311-2606	26" x 6' Column Form	each	1	89	20
311-2406	24" x 6' Column Form	each	1	84	30
311-2206	22" x 6' Column Form	each	1	79	30
311-2006	20" x 6' Column Form	each	1	74	30
311-1806	18" x 6' Column Form	each	1	69	30
311-1606	16" x 6' Column Form	each	1	64	30
311-3005	30" x 5' Column Form	each	1	87	20
311-2805	28" x 5' Column Form	each	1	82	20
311-2605	26" x 5' Column Form	each	1	77	20
311-2405	24" x 5' Column Form	each	1	72	30
311-2205	22" x 5' Column Form	each	1	67	30
311-2005	20" x 5' Column Form	each	1	63	30
311-1805	18" x 5' Column Form	each	1	59	30
311-1605	16" x 5' Column Form	each	1	55	30
311-3004	30" x 4' Column Form	each	1	73	20
311-2804	28" x 4' Column Form	each	1	67	20
311-2604	26" x 4' Column Form	each	1	62	20
311-2404	24" x 4' Column Form	each	1	57	40
311-2204	22" x 4' Column Form	each	1	51	40
311-2004	20" x 4' Column Form	each	1	47	40
311-1804	18" x 4' Column Form	each	1	44	40
311-1604	16" x 4' Column Form	each	1	41	40
311-3003	30" x 3' Column Form	each	1	62	20
311-2803	28" x 3' Column Form	each	1	57	20
311-2603	26" x 3' Column Form	each	1	52	20
311-2403	24" x 3' Column Form	each	1	47	40
311-2203	22" x 3' Column Form	each	1	44	40
311-2003	20" x 3' Column Form	each	1	41	40
311-1803	18" x 3' Column Form	each	1	38	40
311-1603	16" x 3' Column Form	each	1	35	40

■ Special sizes available upon request.

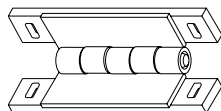
COLUMN LIFTING CORNER



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-9001	Column Lifting Corner	each	1	13	N/A

The Column Lifting Corner is used for lifting gang column forms. The Column Lifting Corner can be used as the outside corner for the top two feet of the gang columns. The Column Lifting Corner has a safe load capacity of 2000 lbs.

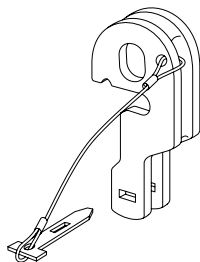
COLUMN HINGE



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-9002	Column Hinge	each	1	3.25	N/A

The Column Hinge allows the contractor to pour large numbers of columns quickly. Used in a gang application, simply remove wedge bolts from the opposite corner of the column hinges, pull back forms away from the concrete, pick up column forms with a crane, re-set column forms in new location, close and wedge bolt back together and you're ready to pour again.

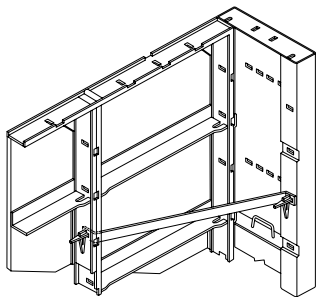
DOUBLE DUTY LIFTING BRACKET



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-2002	Double Duty Lifting Brkt.	each	1	8	N/A

The Double Duty Lifting Bracket provides a place to attach rigging to pick up gang forms with a crane. The Double Duty Lifting Bracket has a vertical capacity of 2000 lbs (5-to-1 safety factor).

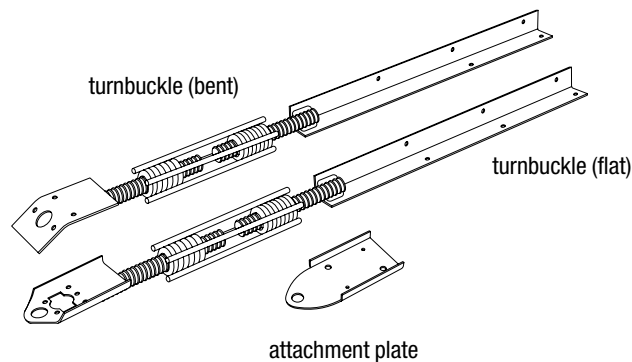
ELITE PILASTER BRACE



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
310-0001	Pilaster Brace	each	1	4	N/A

The Pilaster Brace is used for bracing pilaster forms to the adjacent panel. Attach one brace 6-18 inches down from the top of the pilaster form and one brace 6-18 inches up from the bottom of the pilaster form. Pilaster Braces are needed only on one side of the pilaster.

TURNBUCKLE FORM ALIGNER

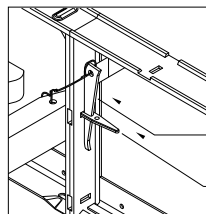
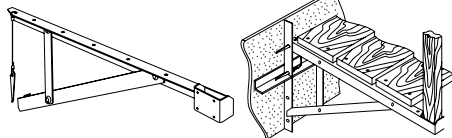


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-1001	Turnbuckle (Bent)	each	1	7.5	250
051-1002	Turnbuckle (Flat)	each	1	7.5	250
051-1000	Attachment Plate	each	1	1	N/A

EMI Turnbuckles allow for 6 inches of adjustment. The Turnbuckle is attached with nails or screws to lumber. Anchor before final adjustments are made. The end of the turnbuckle contains a slot to accommodate a steel nail stake.

SCAFFOLD BRACKET

for steel/plywood forming system

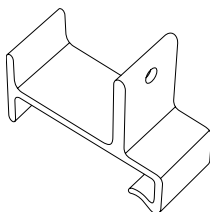


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-0022	Scaffold Bracket	each	1	14	100

The Scaffold Bracket provides a safe working area for the contractor. The maximum safe load of the scaffold bracket is 500 lbs. (4-to-1 safety factor). Do not space more than 8 feet apart.

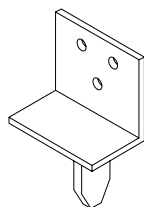
S-Wedge 054-2011
must be used

Standard Wedge Bolt

STEEL/PLYWOOD CAP CLIP

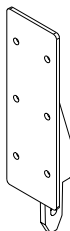
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-0002	Steel/Plywood Cap Clip	box	100	8	N/A

The Steel/Plywood Cap Clip is used for extending the height of the forms. Simply snap cap clip to the top of forms, insert lumber into cap clip and drive screw through cap clip into lumber. Use one cap clip per form. Accepts 2x lumber.

EMI STEEL/PLYWOOD EXTENSION BRACKET

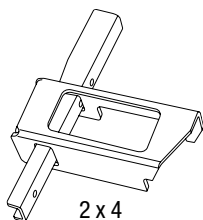
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-2000	EMI Steel/Plywood Ext. Brkt.	each	1	.45	N/A

The EMI Steel/Plywood Extension bracket is used for extending the height of forms. This bracket wedge bolts to the top of forms. Holes are provided for screws or nails to attach 2x lumber to the bracket. Lumber will end up flush with the face of the forms which makes this extension bracket one of the best in the market.

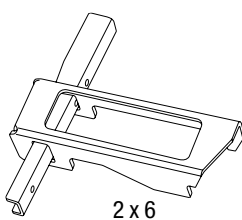
3/4" PLYWOOD EXT BRACKET

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-2002	3/4" Plywood ExtBracket	each	1	0.85	N/A

The 3/4" plywood extension bracket is used for extending height of forms. This bracket wedge bolts to the top of forms. Holes are provided for screws or nails to attach 3/4" plywood to the bracket. 3/4" plywood will end up flush with the face of the forms.

STEEL/PLYWOOD WALER BRACKET

2 x 4

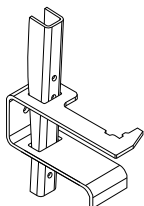


2 x 6

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-0204	2 x 4 Stl/Plywood Waler Brkt. *	each	1	2	1000
055-0206	2 x 6 Stl/Plywood Waler Brkt. *	each	1	2.5	1000

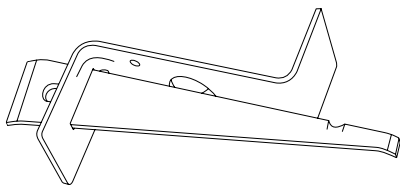
■ * Patent pending

The EMI one-piece Waler Bracket is the most rigid in the market. Simply insert the Waler Bracket into any side rail slot not being used for ties, place a single or double 2"x4" piece of lumber on top of the bracket and drop the wedge to tighten.

OPEN FACE 1-PC WALER BRACKET

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-0011	Open Face 2 x 4 1-PC Waler Brkt.	each	1	2	1000

Z-TIE HOLDER



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
054-0001	Z-Tie Holder	box	25	25	1,350

The Z-Tie Holder is another method for attaching walers and can also be used for strongbacks. The Z-Tie Holder is used in combination with waler ties which come in two lengths to accommodate double 2"x4" and double 2"x6" lumber walers. Once the waler tie is fastened to the forms with standard wedge bolts, the lumber is positioned on each side of the tie then the Z-Tie holder is slipped over the tie and the wedge is pushed down to tighten the assembly.

WALER TIES



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-1004	2 x 4 Waler Ties	box	100	13	N/A
055-1006	2 x 6 Waler Ties	box	100	14	N/A

Waler Ties are used with the Z-Tie Holder. Waler Ties come in two lengths to accommodate 2"x4" and 2"x6" lumber.

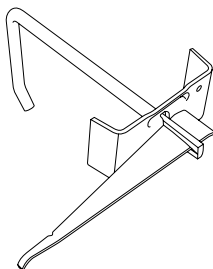
STRONG BACK / STIFF BACK TIE



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-4004	2 x 4 + 2x4 Strong Back	box	100	17	N/A
055-6004	2 x 6 + 2x4 Strong Back	box	100	19	N/A
055-6006	2 x 6 + 2x6 Strong Back	box	100	21	N/A

Strong Back/Stiff Back Ties are used with the Z-Tie Holder. These ties come in three lengths and are used for vertical alignment strong backs.

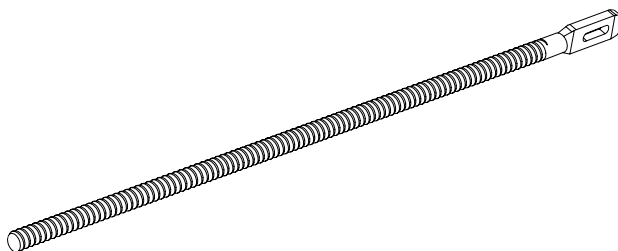
STRONG BACK J-HOOK



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-3044	2 x 4 + 2x4 J-Hooks	each	1	1.5	N/A
051-3046	2 x 6 + 2x4 J-Hooks	each	1	1.6	N/A
051-3066	2 x 6 + 2x6 J-hooks	each	1	1.7	N/A

Strong Back J-Hooks are vertical alignment attachments that are placed at 90 degrees to walers. The strong backs are used to align the walers and are commonly placed at 6' on center.

PLYLAG GANG WALER ROD

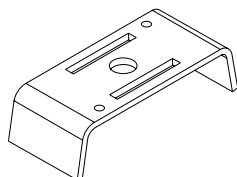


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
301-2006	6-1/4" Plylag GWR	each	1	.28	N/A
301-2007	6-3/4" Plylag GWR	each	1	.30	N/A
301-2010	9-3/4" Plylag GWR	each	1	.44	N/A
301-2015	14-3/4" Plylag GWR	each	1	.67	N/A
301-2018	17-3/4" Plylag GWR	each	1	.80	N/A

- Sizes shown are overall length. Subtract 2-3/4" for thread length.
- Other sizes available

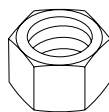
Plylag / Gang Waler Rod are used for horizontal waling and vertical strong backs when gang forming. Gang Waler Rods are used with Gang waler plates and 1/2" coil rod nuts. Plylag / Gang Waler Rod also are used with coil ties.

GANG WALER PLATE



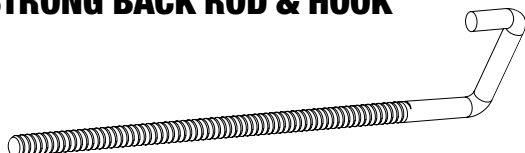
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
302-1000	Gang Waler Plate	each	1	.5	N/A

Gang Waler Plates are used with the gang waler rods for horizontal and vertical waling. Also used with J-Strong Back Rod & Hook.

1/2" HEX COIL ROD NUT

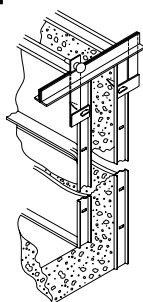
PART #	DESCRIPTION	WEIGHT EA.
190-0216	1/2" Hex Coil Rod Nut	0.07

1/2" Coil Rod Nuts are used with the gang waler rods and also J-Strong Back Rod & Hook. These nuts can also be used with 1/2" Coil Rod.

J-STRONG BACK ROD & HOOK

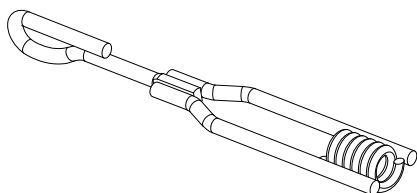
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
193-0012	12" J-Strg Bk Rod-Hook	each	1	0.95	N/A
193-0014	14" J-Strg Bk Rod-Hook	each	1	1.15	N/A

J-Strong Back Rod & Hook is used for vertical alignment strong backs when gang forming. Comes in two lengths to accept double 2"x4" and 2"x6" lumber.

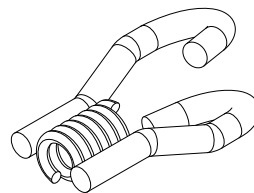
CANTILEVER BRACKET

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-6000	Cantilever Bracket	each	1	12	N/A

The EMI Cantilever Bracket is used to suspend a form on the opposite side of the wall so that a base slab can be monolithically poured with the wall. Maximum capacity is 700 lbs. Maximum spacing is 8' when panels are vertical and spacing is not to exceed panel length when forms are horizontal.

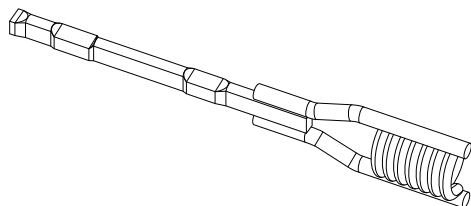
HEAVY DUTY LOOP TRANSITION TIE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
191-0240004	4" HD Transition Tie	box	100	25
191-0240006	6" HD Transition Tie	box	100	30

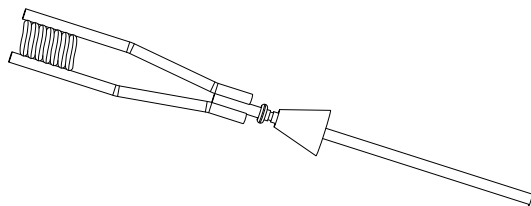
REBAR TRANSITION HOOK

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
191-0000000	Rebar Transition Hook	box	100	45

■ Accommodates up to #6 bar

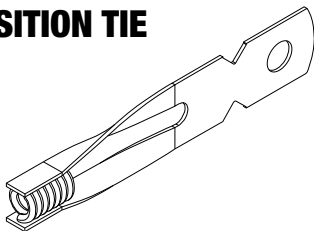
TRANSITION RESI TIE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
191-0420004	4" Resi Transition Tie	box	100	35
191-0420006	6" Resi Transition Tie	box	100	40

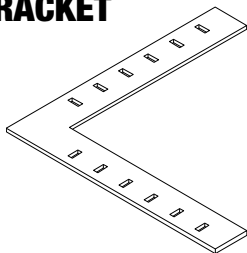
TRANSITION SNAP TIE

PART #	DESCRIPTION	UNIT	SOLD AS	WGT.
191-0321004	4" - 4-3/4" End Snap Tran. Tie w/ Cone	box	100	30
191-0321006	6" - 4-3/4" End Snap Tran. Tie w/ Cone	box	100	35
191-0361004	4" - 8-1/4" End Snap Tran. Tie w/ Cone	box	100	35
191-0361006	6" - 8-1/4" End Snap Tran. Tie w/ Cone	box	100	40

■ Available with washer
■ Additional sizes available

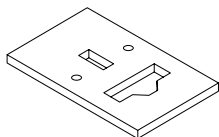
ALUMINUM TRANSITION TIE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
191-0080006	Aluminum Transition Tie	box	100	26	

FOOTING CORNER BRACKET

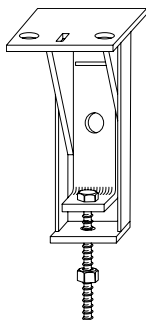
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-2100	Footing Corner Bracket	each	1	4.4	N/A

The Footing Corner Bracket is used when forming footings, pads or slabs. Attached at the top and bottom of each corner the Footing Corner Bracket does a nice job reinforcing corners when laying down panels.

STAKE PLATE

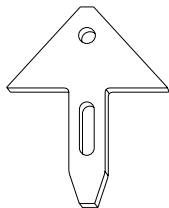
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-2200	Stake Plate	each	1	0.47	N/A

The EMI Stake Plate makes laying down panels to pour footings very easy. Simply wedge bolt the stake plate to the top edge of the side rail. Pass a nail stake through the hole of the stake plate and drive the nail stake into the ground. The form will stand on edge by itself making it easier to set opposite form and installing base ties.

ADJUSTABLE SHEAR WALL BRACKET

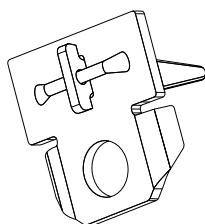
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-5001	Adjust. Shear Wall Brkt.	each	1	8.5	N/A

The Adjustable Shear Wall Bracket is recommended for support of gang forms when pouring on top of an existing wall. The bracket is attached to the existing wall with a 3/4"x3" high strength bolt into an anchor that was placed into the previous pour. The adjustable bracket has a vertical adjustment range of over 2 inches.

GUIDE BOLT

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-2400	Guide Bolt	each	1	0.1	N/A

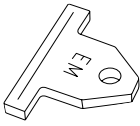
The Guide Bolt is used with the Adjustable Shear Wall Bracket. It locks the head plate slot of the Adjustable Shear Wall Bracket with a standard wedge bolt. The Guide Bolt provides a slope to help guide in ganged forms into the proper position.

SAFETY EYE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-7000	Safety Eye	each	1	0.71	N/A

Safety Eyes are attached to the vertical side rails for easy attachment of personal safety equipment during climbing.

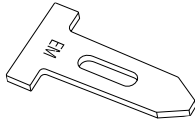
BASE TIE WEDGE



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-1003	Base Tie Wedge	pail	250	11	15,000

The Base Tie Wedge is used when a tie is required at the base of the forms.

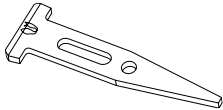
SHORT WEDGE BOLT



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-1001	Short Wedge Bolt	pail	250	24	15,000

The short bolt eliminates the need to short stop standard wedge bolts. Can be used to attach inside corners and pilaster forms to Steel/Plywood forms.

STANDARD WEDGE BOLT

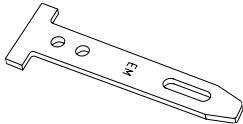


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-0001	Std. Wedge Bolt	pail	250	28	15,000

■ Discount at 5000 pieces and bulk discount at 35,000 pieces

The Standard Wedge Bolt is the most common wedge bolt used to assemble forms.

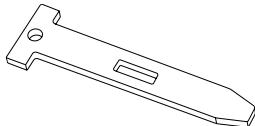
LONG WEDGE BOLT



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-0002	Long Wedge Bolt	pail	250	39	15,000

The Long Wedge Bolt is used when attaching steel fillers to panels and fillers.

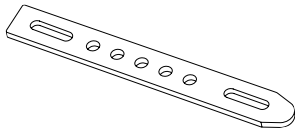
LIFT BRACKET BOLT



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-0003	Lift Bracket Bolt	box	50	8	N/A

Lift Bracket Bolt is used to attach double duty lift bracket.

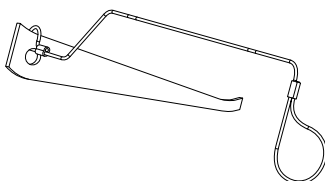
ADJUSTABLE WEDGE BOLT



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
054-2012	Adjustable Wedge	box	100	18	N/A

Adjustable Wedge Bolt is used to attach steel fillers to panels and fillers. Works well when 2 steel fillers are next to each other.

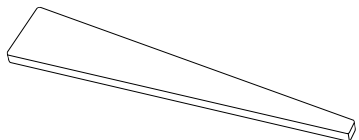
S-WEDGE



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
054-2011	S-Wedge	pail	250	44	N/A
054-2011-CK	S-Wedge Cable Kit* (shown)	each	1	.19	N/A

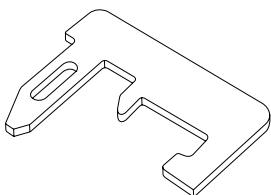
The S-Wedge is used to secure many Steel/Plywood accessories such as scaffold brackets, ply lags and base ties or anywhere those common slots are available.

*The S-Wedge Cable Kit comes with S-Wedge and crimped cable, ready to attach to a scaffold bracket.

CURBING WEDGE

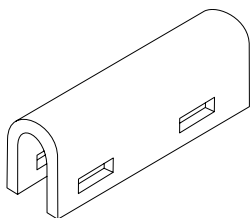
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
043-0012	Curbing Wedge	each	1	0.5	N/A

Used on curb and gutter forms.

GANG FORM BOLT

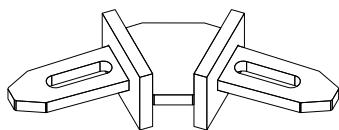
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-2001	Gang Form Bolt	box	50	18	N/A

Gang Form Bolts are used with gang form ties and allows for the tie ends to be broken off before removing forms.

GANG FORM ADAPTER SLEEVE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
302-0001	Gang Form Adapter Sleeve	each	1	0.58	N/A

Gang Form Adapter Sleeve is used with gang form ties at locations where steel fillers are used.

45° WEDGE BOLT

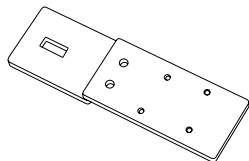
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-6000	45° Wedge Bolt	each	1	0.30	N/A

EMI's 45 Degree Wedge Bolts are another way to connect panels at a 45 degree angle.

BULKHEAD BAR

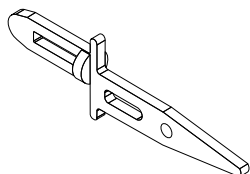
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-3000	Bulkhead Bar	each	1	6.8	N/A

The Bulkhead Bars can be used for forming bulkheads in walls 4 to 24" wide. Standard wedge bolts attach bulkhead bars to siderails of panels fillers.

STEEL/PLYWOOD BRICK LEDGE BRACKET

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
055-2004	Stl/Plywood Brick Ledge Brkt.	each	1	1	N/A

The EMI Brick Ledge Bracket wedge bolts to the top of forms and provides holes to nail lumber for a brick ledge. The bracket also allows for panels and fillers to be stacked on top of the brick ledge when grade is extremely sloped to save on lumber.

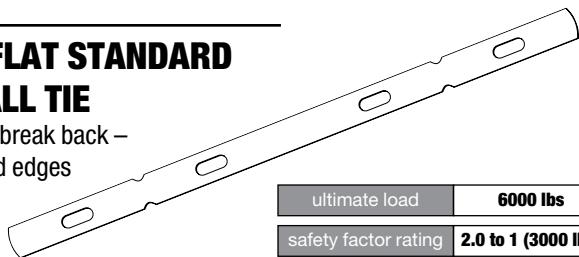
ADAPTER PIN

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
050-0651	Connect Alum. to Stl/Plywood	each	1	0.18	N/A

The Adapter Pin allows for Aluminum Forms to be attached to Elite Steel/Plywood Forms and Fillers.

X-FLAT STANDARD WALL TIE

1/4" break back –
rolled edges



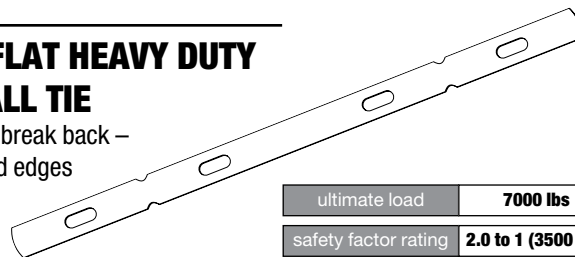
ultimate load	6000 lbs
safety factor rating	2.0 to 1 (3000 lbs)

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
001-0004	4" Std. X-Flat	box	100	20	10,000
001-0006	6" Std. X-Flat	box	100	24	10,000
001-0008	8" Std. X-Flat	box	100	29	10,000
001-0010	10" Std. X-Flat	box	100	34	10,000
001-0012	12" Std. X-Flat	box	100	40	10,000
001-0014	14" Std. X-Flat	box	100	44	5,000
001-0016	16" Std. X-Flat	box	100	48	5,000
001-0018	18" Std. X-Flat	bundle	50	26	5,000
001-0020	20" Std. X-Flat	bundle	50	29	2,500
001-0022	22" Std. X-Flat	bundle	50	31	2,500
001-0024	24" Std. X-Flat	bundle	50	34	2,500
001-0026	26" Std. X-Flat	bundle	50	36	2,500
001-0028	28" Std. X-Flat	bundle	50	39	2,500
001-0030	30" Std. X-Flat	bundle	50	41	2,500
001-0032	32" Std. X-Flat	bundle	50	43	2,500
001-0034	34" Std. X-Flat	bundle	50	45	2,500
001-0036	36" Std. X-Flat	bundle	50	48	2,500
001-0038	38" Std. X-Flat	bundle	50	50	2,500
001-0040	40" Std. X-Flat	bundle	50	52	2,500
001-0042	42" Std. X-Flat	bundle	25	27	2,500
001-0044	44" Std. X-Flat	bundle	25	29	2,500
001-0046	46" Std. X-Flat	bundle	25	30	2,500
001-0048	48" Std. X-Flat	bundle	25	32	2,500

■ Additional sizes available

X-FLAT HEAVY DUTY WALL TIE

1/4" break back –
rolled edges

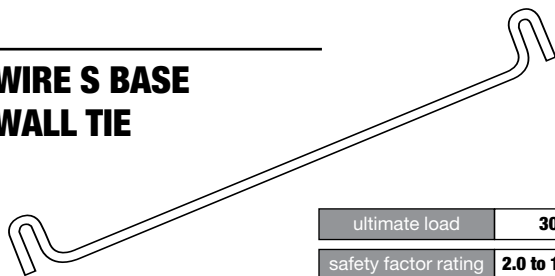


ultimate load	7000 lbs
safety factor rating	2.0 to 1 (3500 lbs)

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
002-0004	4" HD X-Flat	box	100	29	10,000
002-0006	6" HD X-Flat	box	100	32	10,000
002-0008	8" HD X-Flat	box	100	37	10,000
002-0010	10" HD X-Flat	box	100	42	10,000
002-0012	12" HD X-Flat	box	100	48	10,000
002-0014	14" HD X-Flat	box	100	53	5,000
002-0016	16" HD X-Flat	box	100	59	5,000
002-0018	18" HD X-Flat	bundle	50	32	5,000
002-0020	20" HD X-Flat	bundle	50	35	2,500
002-0022	22" HD X-Flat	bundle	50	38	2,500
002-0024	24" HD X-Flat	bundle	50	40	2,500
002-0026	26" HD X-Flat	bundle	50	43	2,500
002-0028	28" HD X-Flat	bundle	50	46	2,500
002-0030	30" HD X-Flat	bundle	50	47	2,500
002-0032	32" HD X-Flat	bundle	50	51	2,500
002-0034	34" HD X-Flat	bundle	50	54	2,500
002-0036	36" HD X-Flat	bundle	50	57	2,500
002-0038	38" HD X-Flat	bundle	50	60	2,500
002-0040	40" HD X-Flat	bundle	50	63	2,500
002-0042	42" HD X-Flat	bundle	25	32	2,500
002-0044	44" HD X-Flat	bundle	25	34	2,500
002-0046	46" HD X-Flat	bundle	25	36	2,500
002-0048	48" HD X-Flat	bundle	25	37	2,500

■ Additional sizes available

WIRE S BASE WALL TIE

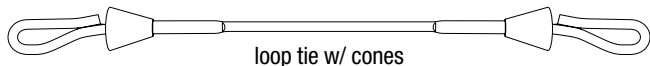


ultimate load	3000 lbs
safety factor rating	2.0 to 1 (1500 lbs)

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
004-0006	6" Wire S Base	box	100	16	10,000
004-0008	8" Wire S Base	box	100	18	10,000
004-0010	10" Wire S Base	box	100	20	10,000
004-0012	12" Wire S Base	box	100	22	10,000
004-0014	14" Wire S Base	box	100	24	7,500
004-0016	16" Wire S Base	box	100	26	7,500
004-0018	18" Wire S Base	box	100	28	7,500
004-0020	20" Wire S Base	box	100	32	5,000
004-0022	22" Wire S Base	box	100	34	5,000
004-0024	24" Wire S Base	box	100	36	5,000

■ Additional sizes available

STANDARD LOOP TIE



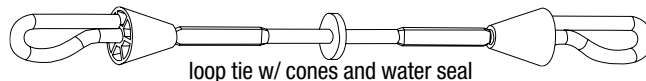
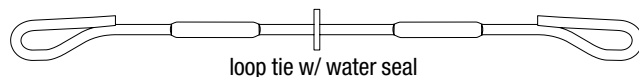
ultimate load	4500 lbs	safety factor rating	2.0 to 1 (2250 lbs)
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PART #	SIZE	STANDARD	W/CONES	W/SEAL	100 QTY. WGT.
020-0006	6"	100/box	50/box	100/box	17
020-0008	8"	100/box	50/box	100/box	18
020-0010	10"	100/box	50/box	100/box	22
020-0012	12"	100/box	50/box	100/box	24
020-0014	14"	100/box	50/box	100/box	27
020-0016	16"	100/box	50/box	100/box	29
020-0018	18"	100/box	50/box	100/box	32
020-0020	20"	100/box	50/box	100/box	34
020-0022	22"	100/box	50/box	100/box	36
020-0024	24"	100/box	50/box	100/box	38

■ Additional sizes available

■ Standard breakback is 1". Additional charge for cones, water seal and non-standard breakbacks.

HEAVY DUTY LOOP TIE



ultimate load	6000 lbs	safety factor rating	2.0 to 1 (3000 lbs)
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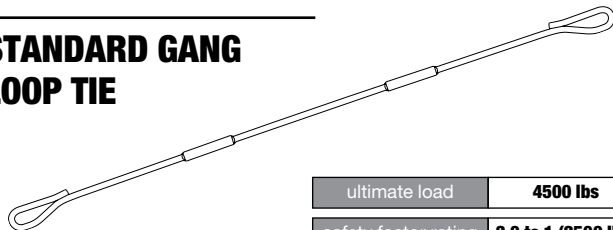
PART #	SIZE	STANDARD	W/CONES	W/SEAL	100 QTY. WGT.
024-0006	6"	100/box	50/box	100/box	20
024-0008	8"	100/box	50/box	100/box	22
024-0010	10"	100/box	50/box	100/box	25
024-0012	12"	100/box	50/box	100/box	28
024-0014	14"	100/box	50/box	100/box	31
024-0016	16"	100/box	50/box	100/box	33
024-0018	18"	100/box	50/box	100/box	36
024-0020	20"	100/box	50/box	100/box	40
024-0022	22"	100/box	50/box	100/box	42
024-0024	24"	100/box	50/box	100/box	44

■ Additional sizes available

■ Custom bent ties available

■ Standard breakback is 1". Additional charge for cones, water seal and non-standard breakbacks.

STANDARD GANG LOOP TIE



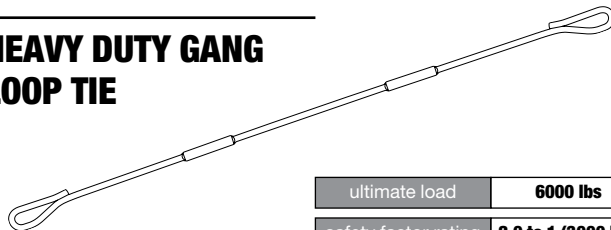
ultimate load	4500 lbs
safety factor rating	2.0 to 1 (2500 lbs)

PART #	DESCRIPTION	QTY	UNIT WGT.	SKID QTY.
022-0006	6" Std. Gang Loop	100/box	24	5,000
022-0008	8" Std. Gang Loop	100/box	27	5,000
022-0010	10" Std. Gang Loop	100/box	29	5,000
022-0012	12" Std. Gang Loop	100/box	31	5,000
022-0014	14" Std. Gang Loop	100/box	35	5,000
022-0016	16" Std. Gang Loop	100/box	36	4,000
022-0018	18" Std. Gang Loop	100/box	38	4,000
022-0020	20" Std. Gang Loop	100/box	41	4,000
022-0022	22" Std. Gang Loop	100/box	44	4,000
022-0024	24" Std. Gang Loop	100/box	46	4,000

■ Additional sizes available

■ Standard breakback is 1". Additional charge for cones, water seal and non-standard breakbacks.

HEAVY DUTY GANG LOOP TIE



ultimate load	6000 lbs
safety factor rating	2.0 to 1 (3000 lbs)

PART #	DESCRIPTION	QTY	UNIT WGT.	SKID QTY.
026-0006	6" HD Gang Loop	100/box	27	5,000
026-0008	8" HD Gang Loop	100/box	30	5,000
026-0010	10" HD Gang Loop	100/box	33	5,000
026-0012	12" HD Gang Loop	100/box	36	5,000
026-0014	14" HD Gang Loop	100/box	38	5,000
026-0016	16" HD Gang Loop	100/box	42	4,000
026-0018	18" HD Gang Loop	100/box	44	4,000
026-0020	20" HD Gang Loop	100/box	47	4,000
026-0022	22" HD Gang Loop	100/box	50	4,000
026-0024	24" HD Gang Loop	100/box	52	4,000

■ Additional sizes available

■ Standard breakback is 1". Additional charge for cones, water seal and non-standard breakbacks.

FAST-LOCK TIE

compatible with Duraform One Lock® system

ultimate load

3000 lbs

safety factor rating

2.0 to 1 (1500 lbs)

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
003-0006	6" Fast Lock	box	100	26	10,000
003-0008	8" Fast Lock	box	100	31	10,000
003-0010	10" Fast Lock	box	100	36	10,000
003-0012	12" Fast Lock	box	100	42	10,000
003-0014	14" Fast Lock	box	100	47	5,000
003-0016	16" Fast Lock	box	100	54	5,000

■ Additional sizes available

M-TYPE TIE

compatible with Symons™ and Mod-U-Form™

ultimate load

7000 lbs

safety factor rating

2.0 to 1 (3500 lbs)

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
015-0006	6" M-Type Tie	box	100	25	10,000
015-0008	8" M-Type Tie	box	100	30	10,000
015-0010	10" M-Type Tie	box	100	36	10,000
015-0012	12" M-Type Tie	box	100	42	10,000
015-0014	14" M-Type Tie	box	100	47	5,000
015-0016	16" M-Type Tie	box	100	52	5,000

■ Additional sizes available

EMI ECONOMY FORMING TIE

compatible with Efcó™ forming system

ultimate load

8800 lbs

safety factor rating

2.0 to 1 (4400 lbs)

1/2" break back



1" break back

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
016-0004	4" Economy Tie 1/2" BB	box	100	21	10,000
016-0006	6" Economy Tie 1/2" BB	box	100	28	10,000
016-0008	8" Economy Tie 1/2" BB	box	100	35	10,000
016-0010	10" Economy Tie 1/2" BB	box	100	42	10,000
016-0012	12" Economy Tie 1/2" BB	box	100	49	5,000
016-0014	14" Economy Tie 1/2" BB	box	100	56	5,000
016-0016	16" Economy Tie 1/2" BB	box	100	62	5,000
016-1004	4" Economy Tie 1" BB	box	100	21	10,000
016-1006	6" Economy Tie 1" BB	box	100	28	10,000
016-1008	8" Economy Tie 1" BB	box	100	35	10,000
016-1010	10" Economy Tie 1" BB	box	100	42	10,000
016-1012	12" Economy Tie 1" BB	box	100	49	5,000
016-1014	14" Economy Tie 1" BB	box	100	56	5,000
016-1016	16" Economy Tie 1" BB	box	100	62	5,000

■ Additional sizes available

EMI "U" TIE

compatible with the Uni-form™ forming system

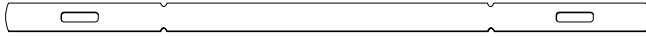


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
040-0006	6" "U" Tie	box	100	30	10,000
040-0008	8" "U" Tie	box	100	35	10,000
040-0010	10" "U" Tie	box	100	41	10,000
040-0012	12" "U" Tie	box	100	46	5,000

■ Additional sizes available

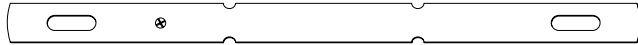
EMI "EB" TIE

compatible with the Burke aluminum hand-set form



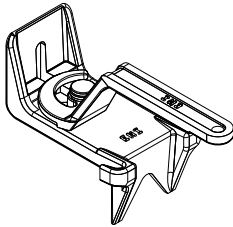
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
019-0006	6" "EB" Tie	box	100	30	10,000
019-0008	8" "EB" Tie	box	100	34	10,000
019-0010	10" "EB" Tie	box	100	37	10,000
019-0012	12" "EB" Tie	box	100	40	10,000

■ Additional sizes available

PERRY TIE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
044-0008	8" Perry Tie	box	100	30	10,000
044-0010	10" Perry Tie	box	100	35	10,000
044-0012	12" Perry Tie	box	100	41	10,000
044-0014	14" Perry Tie	box	100	44	5,000
044-0016	16" Perry Tie	box	100	49	5,000
044-0018	18" Perry Tie	box	50	27	5,000
044-0020	20" Perry Tie	box	50	30	2,500
044-0022	22" Perry Tie	box	50	32	2,500
044-0024	24" Perry Tie	box	50	35	2,500
044-0026	26" Perry Tie	box	50	37	2,500
044-0028	28" Perry Tie	box	50	40	2,500
044-0030	30" Perry Tie	box	50	42	2,500

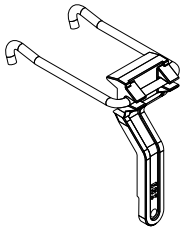
■ Additional sizes available

PLY LOCK WALER BRACKET/CAM

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-8002	Ply Lock Waler Bracket/Cam	box	25	39	1,250

■ Compatible with the Gates Forming System

The Ply Lock Waler Bracket/Cam secures a single 2"x4" horizontal waler to the 3/4" plywood stick built system. Used with EMI's ply tie or compatible with Gates self-centering loop tie.

PLY LOCK STRONGBACK

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
051-8001	Ply Lock Strongback	box	25	33	4,000

■ Compatible with the Gates Forming System

The Ply Lock Strong Back secures a single 2"x4" vertical strong back to the 3/4" plywood stick built system. Attaches to the hooks on the back of the Ply Lock Waler Bracket/Cam.

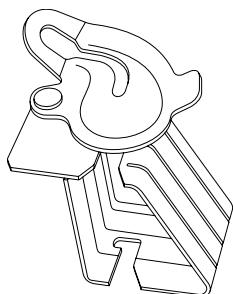
PLY TIE

used with 3/4" plywood systems



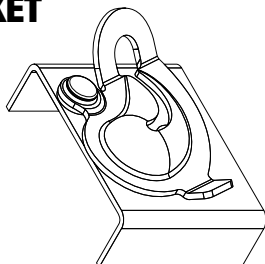
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
030-2006	6" Ply-Tie	box	100	19	5,000
030-2008	8" Ply-Tie	box	100	21	5,000
030-2010	10" Ply-Tie	box	100	23	5,000
030-2012	12" Ply-Tie	box	100	25	5,000
030-2014	14" Ply-Tie	box	100	27	5,000
030-2016	16" Ply-Tie	box	100	29	5,000
030-2018	18" Ply-Tie	box	100	31	5,000
030-2020	20" Ply-Tie	box	100	33	5,000
030-2022	22" Ply-Tie	box	100	35	5,000
030-2024	24" Ply-Tie	box	100	37	5,000

■ Additional sizes available

"A" BRACKET

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
052-0000	"A" Bracket	box	25	38	1000

The A Bracket is used for holding a single 2"x4" horizontal waler on stick built forms using short end snap ties.

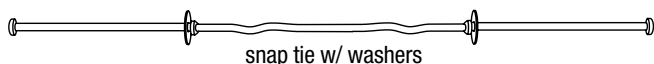
"C" BRACKET

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
052-0011	"C" Bracket	box	50	55	N/A

The C Bracket is used for holding double 2"x4" vertical strong backs on stick built forms using long end snap ties.

SNAP TIE (4-3/4" END)

ultimate load	4500 lbs	safety factor rating	2.0 to 1 (2250 lbs)
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snap tie w/ washers



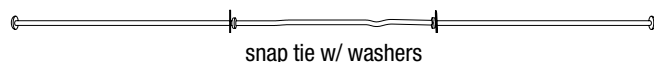
snap tie w/ cones

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
032-0006	6" Snap Tie 4-3/4" (washer)	box	100	23	4,200
032-0008	8" Snap Tie 4-3/4" (washer)	box	100	24	3,000
032-0010	10" Snap Tie 4-3/4" (washer)	box	100	27	3,000
032-0012	12" Snap Tie 4-3/4" (washer)	box	100	30	3,000
032-0014	14" Snap Tie 4-3/4" (washer)	box	100	32	3,000
032-1006	6" Snap Tie 4-3/4" (cone)	box	100	23	4,200
032-1008	8" Snap Tie 4-3/4" (cone)	box	100	24	3,000
032-1010	10" Snap Tie 4-3/4" (cone)	box	100	27	3,000
032-1012	12" Snap Tie 4-3/4" (cone)	box	100	30	3,000
032-1014	14" Snap Tie 4-3/4" (cone)	box	100	32	3,000

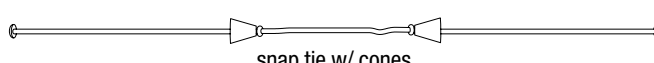
- Water seals available
- Additional sizes available

SNAP TIE (8-1/4" END)

ultimate load	4500 lbs	safety factor rating	2.0 to 1 (2250 lbs)
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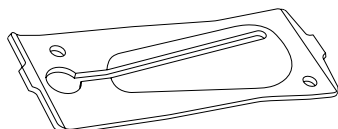
snap tie w/ washers



snap tie w/ cones

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
036-0006	6" Snap Tie 8-1/4" (washer)	box	100	32	3,000
036-0008	8" Snap Tie 8-1/4" (washer)	box	100	34	2,100
036-0010	10" Snap Tie 8-1/4" (washer)	box	100	36	2,100
036-0012	12" Snap Tie 8-1/4" (washer)	box	100	38	2,100
036-0014	14" Snap Tie 8-1/4" (washer)	box	100	41	1,800
036-1006	6" Snap Tie 8-1/4" (cone)	box	100	32	3,000
036-1008	8" Snap Tie 8-1/4" (cone)	box	100	34	2,100
036-1010	10" Snap Tie 8-1/4" (cone)	box	100	36	2,100
036-1012	12" Snap Tie 8-1/4" (cone)	box	100	38	2,100
036-1014	14" Snap Tie 8-1/4" (cone)	box	100	41	1,800

- Water seals available
- Additional sizes available

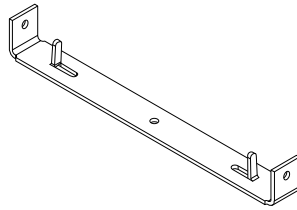
HEAVY WEDGE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
052-0001	Heavy Duty Wedge	box	100	45	5,000

The Heavy Wedge is used with short and long end snap ties on stick built forms. Used with double 2"x4" horizontal walers and double 2"x4" vertical strong backs.

3/4" PLY SPACER

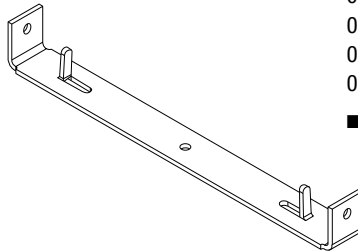
used with 3/4" plywood systems



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
028-1006	6" Ply Spacer 3/4"	box	100	38	4,200
028-1008	8" Ply Spacer 3/4"	box	100	45	3,000
028-1010	10" Ply Spacer 3/4"	box	100	54	3,000
028-1012	12" Ply Spacer 3/4"	box	100	60	3,000

1-1/8" PLY SPACER

used with 1-1/8" plywood systems

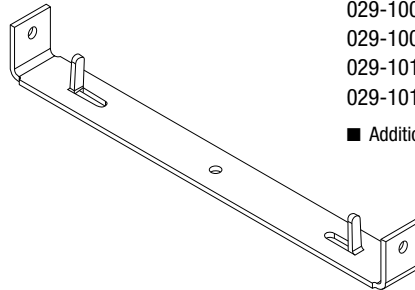


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
029-0006	6" Ply Spacer 1-1/8"	box	100	39	4,200
029-0008	8" Ply Spacer 1-1/8"	box	100	46	3,000
029-0010	10" Ply Spacer 1-1/8"	box	100	55	3,000
029-0012	12" Ply Spacer 1-1/8"	box	100	61	3,000

■ Additional sizes available

1-5/8" PLY SPACER

used with 1-5/8" plywood systems

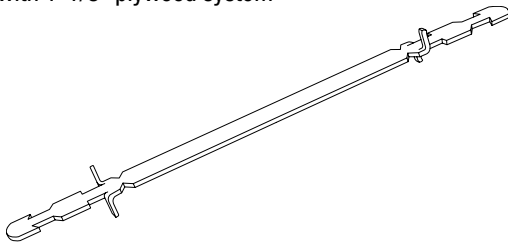


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
029-1006	6" Ply Spacer 1-5/8"	box	100	41	4,200
029-1008	8" Ply Spacer 1-5/8"	box	100	48	3,000
029-1010	10" Ply Spacer 1-5/8"	box	100	57	3,000
029-1012	12" Ply Spacer 1-5/8"	box	100	63	3,000

■ Additional sizes available

STACKING TIE

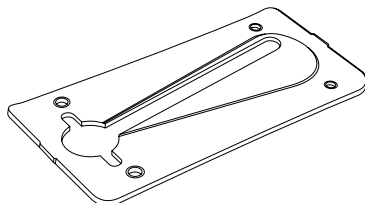
used with 1-1/8" plywood system



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
041-0006	6" Stacking Tie	box	100	29	7,500
041-0008	8" Stacking Tie	box	100	34	7,500
041-0010	10" Stacking Tie	box	100	40	7,500
041-0012	12" Stacking Tie	box	100	46	7,500
041-0014	14" Stacking Tie	box	50	26	3,500
041-0016	16" Stacking Tie	box	50	29	3,500
041-0018	18" Stacking Tie	box	50	32	3,500
041-0020	20" Stacking Tie	box	50	35	2,000
041-0022	22" Stacking Tie	box	50	38	2,000
041-0024	24" Stacking Tie	box	50	41	2,000

■ Additional sizes available

STACKING WEDGE



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
043-0041	Stacking Wedge	box	50	35	5,000

The Stacking Wedge is used with the Stacking Tie with 1 1/8" plywood.

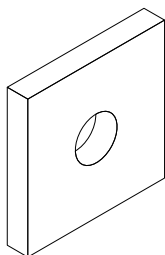
COIL ROD



PART #	DESCRIPTION	UNIT	WGT. EA.	SOLD AS	UNIT WGT.	SKID QTY.
190-0116	1/2" Dia. x 12' Coil Rod	bundle	7.22	10	73	200
190-0124	3/4" Dia. x 12' Coil Rod	bundle	16.25	5	82	100
190-0132	1" Dia. x 12' Coil Rod	bundle	28.90	5	145	50
190-0140	1-1/4" Dia. x 12' Coil Rod	each	45.20	1	46	50

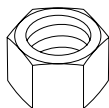
■ Cut sizes available

FLAT WASHERS



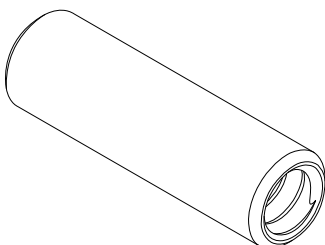
PART #	DESCRIPTION	WEIGHT EA.
190-1016	Std, 1/2" Dia. Hole 3" x 4" x 1/4"	0.90
190-1116	HD, 1/2" Dia. Hole 4" x 5" x 1/4"	1.46
190-1024	Std, 3/4" Dia. Hole 4" x 5" x 1/4"	1.44
190-1124	HD, 3/4" Dia. Hole 5" x 5" x 3/8"	2.85
190-1032	Std, 1" Dia. Hole 5" x 5" x 7/16"	3.30
190-1132	HD, 1" Dia. Hole 7" x 7" x 3/4"	11.60
190-1040	Std, 1-1/4" Dia. Hole 5" x 5" x 7/16"	3.30
190-1140	HD, 1-1/4" Dia. Hole 7" x 7" x 3/4"	11.50
190-1048	Std, 1-1/2" Dia. Hole 5" x 5" x 3/4"	5.44
190-1148	HD, 1-1/2" Dia. Hole 7" x 7" x 3/4"	11.40

HEX COIL NUTS



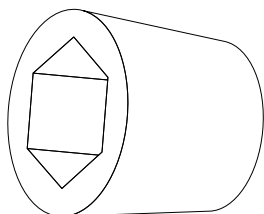
PART #	DESCRIPTION	WEIGHT EA.
190-0216	1/2" Coil Rod Nut (Std)	0.07
190-0220	5/8" Coil Rod Nut (Std)	0.11
190-0224	3/4" Coil Rod Nut (Std)	0.13
190-0228	7/8" Coil Rod Nut (Std)	0.30
190-0232	1" Coil Rod Nut (Std)	0.44
190-0240	1-1/4" Coil Rod Nut (Std)	0.72

COIL ROD COUPLER



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
190-3016	1/2" Coil Rod Coupler	box	100	19
190-3024	3/4" Coil Rod Coupler	box	50	21
190-3032	1" Coil Rod Coupler	box	30	41

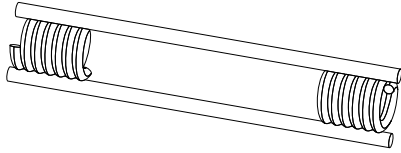
FAST CONES



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
192-1004008	1/2" Coil FC 1" Set Back	box	100	3.7
192-1004012	1/2" Coil FC 1-1/2" Set Back	box	100	4.8
192-1004016	1/2" Coil FC 2" Set Back	box	100	6.0
192-1006008	3/4" Coil FC 1" Set Back	box	100	7.7
192-1006016	3/4" Coil FC 2" Set Back	box	100	12.4
192-1008016	1" Coil FC 2" Set Back	box	100	16.9
192-1010016	1-1/4" Coil FC 2" Set Back	box	100	20.2

STANDARD 2 STRUT 1/2" COIL TIE

4,500 LBS SAFE WORKING LOAD

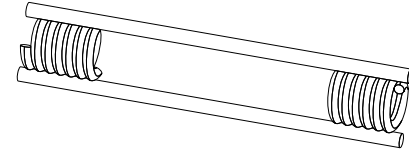


PART #	DESCRIPTION	WGT. EA.
192-2104004	1/2" Std 2 Strut Coil Tie 4"	0.30
192-2104005	1/2" Std 2 Strut Coil Tie 5"	0.31
192-2104006	1/2" Std 2 Strut Coil Tie 6"	0.32
192-2104007	1/2" Std 2 Strut Coil Tie 7"	0.33
192-2104008	1/2" Std 2 Strut Coil Tie 8"	0.34
192-2104009	1/2" Std 2 Strut Coil Tie 9"	0.36
192-2104010	1/2" Std 2 Strut Coil Tie 10"	0.37
192-2104011	1/2" Std 2 Strut Coil Tie 11"	0.38
192-2104012	1/2" Std 2 Strut Coil Tie 12"	0.39
192-2104013	1/2" Std 2 Strut Coil Tie 13"	0.44
192-2104014	1/2" Std 2 Strut Coil Tie 14"	0.47
192-2104015	1/2" Std 2 Strut Coil Tie 15"	0.49
192-2104016	1/2" Std 2 Strut Coil Tie 16"	0.51
192-2104017	1/2" Std 2 Strut Coil Tie 17"	0.53
192-2104018	1/2" Std 2 Strut Coil Tie 18"	0.56

■ Additional sizes available ■ Water seals available ■ 4 strut available

HEAVY DUTY 2 STRUT 1/2" COIL TIE

6,750 LBS SAFE WORKING LOAD

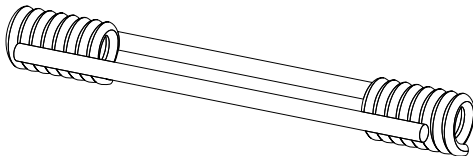


PART #	DESCRIPTION	WGT. EA.
192-2204004	1/2" HD 2 Strut Coil Tie 4"	0.56
192-2204005	1/2" HD 2 Strut Coil Tie 5"	0.57
192-2204006	1/2" HD 2 Strut Coil Tie 6"	0.58
192-2204007	1/2" HD 2 Strut Coil Tie 7"	0.59
192-2204008	1/2" HD 2 Strut Coil Tie 8"	0.60
192-2204009	1/2" HD 2 Strut Coil Tie 9"	0.62
192-2204010	1/2" HD 2 Strut Coil Tie 10"	0.66
192-2204011	1/2" HD 2 Strut Coil Tie 11"	0.70
192-2204012	1/2" HD 2 Strut Coil Tie 12"	0.74
192-2204013	1/2" HD 2 Strut Coil Tie 13"	0.78
192-2204014	1/2" HD 2 Strut Coil Tie 14"	0.82
192-2204015	1/2" HD 2 Strut Coil Tie 15"	0.86
192-2204016	1/2" HD 2 Strut Coil Tie 16"	0.90
192-2204017	1/2" HD 2 Strut Coil Tie 17"	0.92
192-2204018	1/2" HD 2 Strut Coil Tie 18"	0.98

■ Additional sizes available ■ Water seals available ■ 4 strut available

STANDARD 2 STRUT 1/2" CONE FAST COIL TIE

4,500 LBS SAFE WORKING LOAD

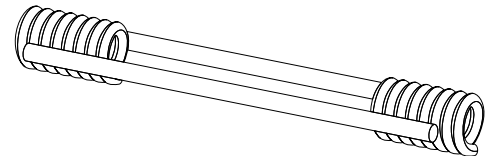


PART #	DESCRIPTION	WGT. EA.
192-2304004	1/2" Std Fast Cone 2 Strut Coil Tie 4"	0.32
192-2304005	1/2" Std Fast Cone 2 Strut Coil Tie 5"	0.33
192-2304006	1/2" Std Fast Cone 2 Strut Coil Tie 6"	0.34
192-2304007	1/2" Std Fast Cone 2 Strut Coil Tie 7"	0.35
192-2304008	1/2" Std Fast Cone 2 Strut Coil Tie 8"	0.36
192-2304009	1/2" Std Fast Cone 2 Strut Coil Tie 9"	0.37
192-2304010	1/2" Std Fast Cone 2 Strut Coil Tie 10"	0.38
192-2304011	1/2" Std Fast Cone 2 Strut Coil Tie 11"	0.40
192-2304012	1/2" Std Fast Cone 2 Strut Coil Tie 12"	0.42
192-2304013	1/2" Std Fast Cone 2 Strut Coil Tie 13"	0.46
192-2304014	1/2" Std Fast Cone 2 Strut Coil Tie 14"	0.48
192-2304015	1/2" Std Fast Cone 2 Strut Coil Tie 15"	0.50
192-2304016	1/2" Std Fast Cone 2 Strut Coil Tie 16"	0.52
192-2304017	1/2" Std Fast Cone 2 Strut Coil Tie 17"	0.54
192-2304018	1/2" Std Fast Cone 2 Strut Coil Tie 18"	0.56

■ Additional sizes available ■ Water seals available ■ 4 strut available

HEAVY DUTY 2 STRUT 1/2" CONE FAST COIL TIE

6,750 LBS SAFE WORKING LOAD

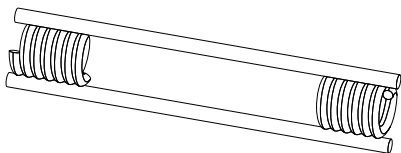


PART #	DESCRIPTION	WGT. EA.
192-2404004	1/2" HD Fast Cone 2 Strut Coil Tie 4"	0.58
192-2404005	1/2" HD Fast Cone 2 Strut Coil Tie 5"	0.60
192-2404006	1/2" HD Fast Cone 2 Strut Coil Tie 6"	0.62
192-2404007	1/2" HD Fast Cone 2 Strut Coil Tie 7"	0.64
192-2404008	1/2" HD Fast Cone 2 Strut Coil Tie 8"	0.65
192-2404009	1/2" HD Fast Cone 2 Strut Coil Tie 9"	0.66
192-2404010	1/2" HD Fast Cone 2 Strut Coil Tie 10"	0.70
192-2404011	1/2" HD Fast Cone 2 Strut Coil Tie 11"	0.74
192-2404012	1/2" HD Fast Cone 2 Strut Coil Tie 12"	0.78
192-2404013	1/2" HD Fast Cone 2 Strut Coil Tie 13"	0.82
192-2404014	1/2" HD Fast Cone 2 Strut Coil Tie 14"	0.88
192-2404015	1/2" HD Fast Cone 2 Strut Coil Tie 15"	0.92
192-2404016	1/2" HD Fast Cone 2 Strut Coil Tie 16"	0.96
192-2404017	1/2" HD Fast Cone 2 Strut Coil Tie 17"	1.00
192-2404018	1/2" HD Fast Cone 2 Strut Coil Tie 18"	1.04

■ Additional sizes available ■ Water seals available ■ 4 strut available

STANDARD 2 STRUT 3/4" COIL TIE

6,750 LBS SAFE WORKING LOAD

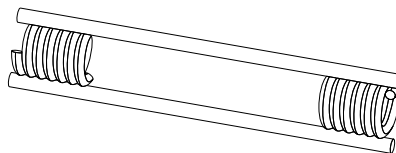


PART #	DESCRIPTION	WGT. EA.
192-2106004	3/4" Std 2 Strut Coil Tie 4"	0.70
192-2106005	3/4" Std 2 Strut Coil Tie 5"	0.74
192-2106006	3/4" Std 2 Strut Coil Tie 6"	0.78
192-2106007	3/4" Std 2 Strut Coil Tie 7"	0.81
192-2106008	3/4" Std 2 Strut Coil Tie 8"	0.84
192-2106009	3/4" Std 2 Strut Coil Tie 9"	0.86
192-2106010	3/4" Std 2 Strut Coil Tie 10"	0.88
192-2106011	3/4" Std 2 Strut Coil Tie 11"	0.90
192-2106012	3/4" Std 2 Strut Coil Tie 12"	0.92
192-2106013	3/4" Std 2 Strut Coil Tie 13"	0.96
192-2106014	3/4" Std 2 Strut Coil Tie 14"	1.00
192-2106015	3/4" Std 2 Strut Coil Tie 15"	1.02
192-2106016	3/4" Std 2 Strut Coil Tie 16"	1.08
192-2106017	3/4" Std 2 Strut Coil Tie 17"	1.12
192-2106018	3/4" Std 2 Strut Coil Tie 18"	1.16

■ Additional sizes available ■ Water seals available ■ 4 strut available

HEAVY DUTY 2 STRUT 3/4" COIL TIE

9,000 LBS SAFE WORKING LOAD

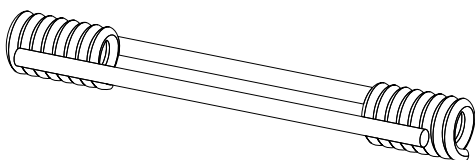


PART #	DESCRIPTION	WGT. EA.
192-2206004	3/4" HD 2 Strut Coil Tie 4"	0.74
192-2206005	3/4" Std 2 Strut Coil Tie 5"	0.76
192-2206006	3/4" Std 2 Strut Coil Tie 6"	0.80
192-2206007	3/4" Std 2 Strut Coil Tie 7"	0.84
192-2206008	3/4" Std 2 Strut Coil Tie 8"	0.86
192-2206009	3/4" Std 2 Strut Coil Tie 9"	0.90
192-2206010	3/4" Std 2 Strut Coil Tie 10"	0.96
192-2206011	3/4" Std 2 Strut Coil Tie 11"	0.98
192-2206012	3/4" Std 2 Strut Coil Tie 12"	1.02
192-2206013	3/4" Std 2 Strut Coil Tie 13"	1.06
192-2206014	3/4" Std 2 Strut Coil Tie 14"	1.12
192-2206015	3/4" Std 2 Strut Coil Tie 15"	1.16
192-2206016	3/4" Std 2 Strut Coil Tie 16"	1.22
192-2206017	3/4" Std 2 Strut Coil Tie 17"	1.26
192-2206018	3/4" Std 2 Strut Coil Tie 18"	1.32

■ Additional sizes available ■ Water seals available ■ 4 strut available

STANDARD 2 STRUT 3/4" FAST CONE COIL TIE

6,750 LBS SAFE WORKING LOAD

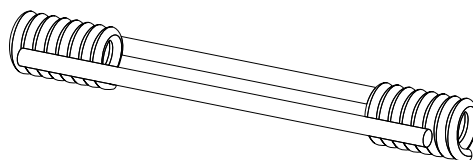


PART #	DESCRIPTION	WGT. EA.
192-2306004	3/4" Std Fast Cone 2 Strut Coil Tie 4"	0.74
192-2306005	3/4" Std Fast Cone 2 Strut Coil Tie 5"	0.75
192-2306006	3/4" Std Fast Cone 2 Strut Coil Tie 6"	0.76
192-2306007	3/4" Std Fast Cone 2 Strut Coil Tie 7"	0.78
192-2306008	3/4" Std Fast Cone 2 Strut Coil Tie 8"	0.80
192-2306009	3/4" Std Fast Cone 2 Strut Coil Tie 9"	0.86
192-2306010	3/4" Std Fast Cone 2 Strut Coil Tie 10"	0.90
192-2306011	3/4" Std Fast Cone 2 Strut Coil Tie 11"	0.94
192-2306012	3/4" Std Fast Cone 2 Strut Coil Tie 12"	0.98
192-2306013	3/4" Std Fast Cone 2 Strut Coil Tie 13"	1.02
192-2306014	3/4" Std Fast Cone 2 Strut Coil Tie 14"	1.06
192-2306015	3/4" Std Fast Cone 2 Strut Coil Tie 15"	1.10
192-2306016	3/4" Std Fast Cone 2 Strut Coil Tie 16"	1.14
192-2306017	3/4" Std Fast Cone 2 Strut Coil Tie 17"	1.18
192-2306018	3/4" Std Fast Cone 2 Strut Coil Tie 18"	1.24

■ Additional sizes available ■ Water seals available ■ 4 strut available

HEAVY DUTY 2 STRUT 3/4" FAST CONE COIL TIE

9,000 LBS SAFE WORKING LOAD

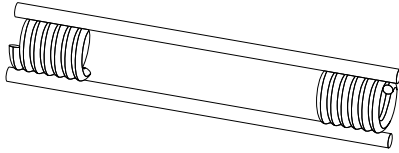


PART #	DESCRIPTION	WGT. EA.
192-2406004	3/4" HD Fast Cone 2 Strut Coil Tie 4"	0.78
192-2406005	3/4" HD Fast Cone 2 Strut Coil Tie 5"	0.80
192-2406006	3/4" HD Fast Cone 2 Strut Coil Tie 6"	0.82
192-2406007	3/4" HD Fast Cone 2 Strut Coil Tie 7"	0.85
192-2406008	3/4" HD Fast Cone 2 Strut Coil Tie 8"	0.86
192-2406009	3/4" HD Fast Cone 2 Strut Coil Tie 9"	0.92
192-2406010	3/4" HD Fast Cone 2 Strut Coil Tie 10"	0.96
192-2406011	3/4" HD Fast Cone 2 Strut Coil Tie 11"	1.04
192-2406012	3/4" HD Fast Cone 2 Strut Coil Tie 12"	1.08
192-2406013	3/4" HD Fast Cone 2 Strut Coil Tie 13"	1.12
192-2406014	3/4" HD Fast Cone 2 Strut Coil Tie 14"	1.18
192-2406015	3/4" HD Fast Cone 2 Strut Coil Tie 15"	1.22
192-2406016	3/4" HD Fast Cone 2 Strut Coil Tie 16"	1.28
192-2406017	3/4" HD Fast Cone 2 Strut Coil Tie 17"	1.34
192-2406018	3/4" HD Fast Cone 2 Strut Coil Tie 18"	1.40

■ Additional sizes available ■ Water seals available ■ 4 strut available

STANDARD 2 STRUT 1" COIL TIE

13,500 LBS SAFE WORKING LOAD

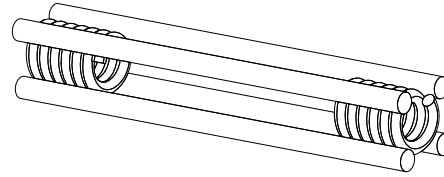


PART #	DESCRIPTION	WGT. EA.
192-2108004	1" Std 2 Strut Coil Tie 4"	1.38
192-2108005	1" Std 2 Strut Coil Tie 5"	1.40
192-2108006	1" Std 2 Strut Coil Tie 6"	1.42
192-2108007	1" Std 2 Strut Coil Tie 7"	1.44
192-2108008	1" Std 2 Strut Coil Tie 8"	1.46
192-2108009	1" Std 2 Strut Coil Tie 9"	1.58
192-2108010	1" Std 2 Strut Coil Tie 10"	1.66
192-2108011	1" Std 2 Strut Coil Tie 11"	1.74
192-2108012	1" Std 2 Strut Coil Tie 12"	1.84
192-2108013	1" Std 2 Strut Coil Tie 13"	1.92
192-2108014	1" Std 2 Strut Coil Tie 14"	1.98
192-2108015	1" Std 2 Strut Coil Tie 15"	2.08
192-2108016	1" Std 2 Strut Coil Tie 16"	2.16
192-2108017	1" Std 2 Strut Coil Tie 17"	2.24
192-2108018	1" Std 2 Strut Coil Tie 18"	2.32

■ Additional sizes available ■ Water seals available ■ 4 strut available

STANDARD 4 STRUT 1" COIL TIE

18,000 LBS SAFE WORKING LOAD

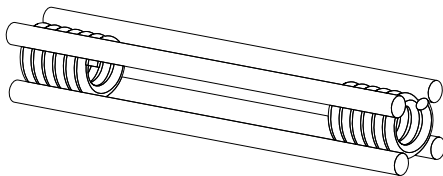


PART #	DESCRIPTION	WGT. EA.
192-4108005	1" Std 4 Strut Coil Tie 5"	1.58
192-4108006	1" Std 4 Strut Coil Tie 6"	1.66
192-4108007	1" Std 4 Strut Coil Tie 7"	1.68
192-4108008	1" Std 4 Strut Coil Tie 8"	1.70
192-4108009	1" Std 4 Strut Coil Tie 9"	1.80
192-4108010	1" Std 4 Strut Coil Tie 10"	1.90
192-4108011	1" Std 4 Strut Coil Tie 11"	2.00
192-4108012	1" Std 4 Strut Coil Tie 12"	2.10
192-4108013	1" Std 4 Strut Coil Tie 13"	2.20
192-4108014	1" Std 4 Strut Coil Tie 14"	2.30
192-4108015	1" Std 4 Strut Coil Tie 15"	2.40
192-4108016	1" Std 4 Strut Coil Tie 16"	2.52
192-4108017	1" Std 4 Strut Coil Tie 17"	2.60
192-4108018	1" Std 4 Strut Coil Tie 18"	2.70

■ Additional sizes available ■ Water seals available

HEAVY DUTY 4 STRUT 1" COIL TIE

27,000 LBS SAFE WORKING LOAD

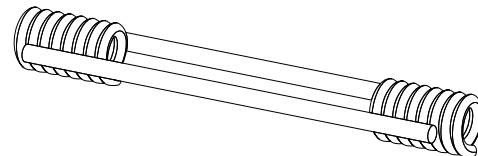


PART #	DESCRIPTION	WGT. EA.
192-4208005	1" HD 4 Strut Coil Tie 5"	2.28
192-4208006	1" HD 4 Strut Coil Tie 6"	2.30
192-4208007	1" HD 4 Strut Coil Tie 7"	2.34
192-4208008	1" HD 4 Strut Coil Tie 8"	2.38
192-4208009	1" HD 4 Strut Coil Tie 9"	2.48
192-4208010	1" HD 4 Strut Coil Tie 10"	2.66
192-4208011	1" HD 4 Strut Coil Tie 11"	2.82
192-4208012	1" HD 4 Strut Coil Tie 12"	3.00
192-4208013	1" HD 4 Strut Coil Tie 13"	3.16
192-4208014	1" HD 4 Strut Coil Tie 14"	3.34
192-4208015	1" HD 4 Strut Coil Tie 15"	3.50
192-4208016	1" HD 4 Strut Coil Tie 16"	3.68
192-4208017	1" HD 4 Strut Coil Tie 17"	3.84
192-4208018	1" HD 4 Strut Coil Tie 18"	4.02

■ Additional sizes available ■ Water seals available

STANDARD 2 STRUT 1" FAST CONE COIL TIE

13,500 LBS SAFE WORKING LOAD

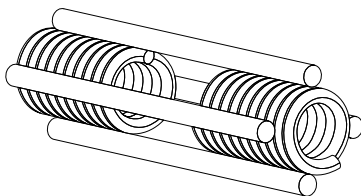


PART #	DESCRIPTION	WGT. EA.
192-2308006	1" Std Fast Cone 2 Strut Coil Tie 6"	1.58
192-2308007	1" Std Fast Cone 2 Strut Coil Tie 7"	1.62
192-2308008	1" Std Fast Cone 2 Strut Coil Tie 8"	1.76
192-2308009	1" Std Fast Cone 2 Strut Coil Tie 9"	1.82
192-2308010	1" Std Fast Cone 2 Strut Coil Tie 10"	1.88
192-2308011	1" Std Fast Cone 2 Strut Coil Tie 11"	1.96
192-2308012	1" Std Fast Cone 2 Strut Coil Tie 12"	2.02
192-2308013	1" Std Fast Cone 2 Strut Coil Tie 13"	2.10
192-2308014	1" Std Fast Cone 2 Strut Coil Tie 14"	2.18
192-2308015	1" Std Fast Cone 2 Strut Coil Tie 15"	2.28
192-2308016	1" Std Fast Cone 2 Strut Coil Tie 16"	2.36
192-2308017	1" Std Fast Cone 2 Strut Coil Tie 17"	2.44
192-2308018	1" Std Fast Cone 2 Strut Coil Tie 18"	2.52

■ Additional sizes available ■ Water seals available

STANDARD 4 STRUT 1" FAST CONE COIL TIE

18,000 LBS SAFE WORKING LOAD

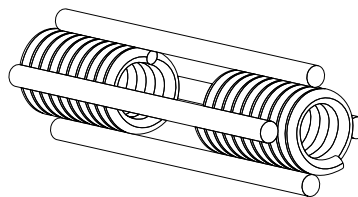


PART #	DESCRIPTION	WGT. EA.
192-4308006	1" Std Fast Cone 4 Strut Coil Tie 6"	1.62
192-4308007	1" Std Fast Cone 4 Strut Coil Tie 7"	1.64
192-4308008	1" Std Fast Cone 4 Strut Coil Tie 8"	1.68
192-4308009	1" Std Fast Cone 4 Strut Coil Tie 9"	1.88
192-4308010	1" Std Fast Cone 4 Strut Coil Tie 10"	1.98
192-4308011	1" Std Fast Cone 4 Strut Coil Tie 11"	2.06
192-4308012	1" Std Fast Cone 4 Strut Coil Tie 12"	2.18
192-4308013	1" Std Fast Cone 4 Strut Coil Tie 13"	2.28
192-4308014	1" Std Fast Cone 4 Strut Coil Tie 14"	2.38
192-4308015	1" Std Fast Cone 4 Strut Coil Tie 15"	2.46
192-4308016	1" Std Fast Cone 4 Strut Coil Tie 16"	2.58
192-4308017	1" Std Fast Cone 4 Strut Coil Tie 17"	2.68
192-4308018	1" Std Fast Cone 4 Strut Coil Tie 18"	2.78

■ Additional sizes available ■ Water seals available

HEAVY DUTY 4 STRUT 1" FAST CONE COIL TIE

27,000 LBS SAFE WORKING LOAD

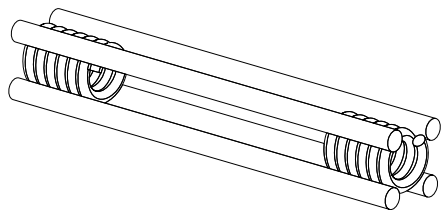


PART #	DESCRIPTION	WGT. EA.
192-4408006	1" HD Fast Cone 4 Strut Coil Tie 6"	2.30
192-4408007	1" HD Fast Cone 4 Strut Coil Tie 7"	2.34
192-4408008	1" HD Fast Cone 4 Strut Coil Tie 8"	2.38
192-4408009	1" HD Fast Cone 4 Strut Coil Tie 9"	2.56
192-4408010	1" HD Fast Cone 4 Strut Coil Tie 10"	2.72
192-4408011	1" HD Fast Cone 4 Strut Coil Tie 11"	2.90
192-4408012	1" HD Fast Cone 4 Strut Coil Tie 12"	3.06
192-4408013	1" HD Fast Cone 4 Strut Coil Tie 13"	3.24
192-4408014	1" HD Fast Cone 4 Strut Coil Tie 14"	3.40
192-4408015	1" HD Fast Cone 4 Strut Coil Tie 15"	3.58
192-4408016	1" HD Fast Cone 4 Strut Coil Tie 16"	3.74
192-4408017	1" HD Fast Cone 4 Strut Coil Tie 17"	3.92
192-4408018	1" HD Fast Cone 4 Strut Coil Tie 18"	4.08

■ Additional sizes available ■ Water seals available

STANDARD 4 STRUT 1-1/4" COIL TIE

27,000 LBS SAFE WORKING LOAD

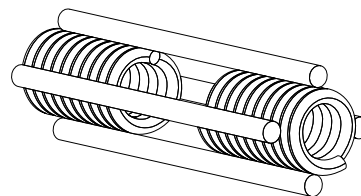


PART #	DESCRIPTION	WGT. EA.
192-4110006	1-1/4" Std 4 Strut Coil Tie 6"	2.18
192-4110007	1-1/4" Std 4 Strut Coil Tie 7"	2.22
192-4110008	1-1/4" Std 4 Strut Coil Tie 8"	2.26
192-4110009	1-1/4" Std 4 Strut Coil Tie 9"	2.58
192-4110010	1-1/4" Std 4 Strut Coil Tie 10"	2.74
192-4110011	1-1/4" Std 4 Strut Coil Tie 11"	2.90
192-4110012	1-1/4" Std 4 Strut Coil Tie 12"	3.06
192-4110013	1-1/4" Std 4 Strut Coil Tie 13"	3.24
192-4110014	1-1/4" Std 4 Strut Coil Tie 14"	3.42
192-4110015	1-1/4" Std 4 Strut Coil Tie 15"	3.58
192-4110016	1-1/4" Std 4 Strut Coil Tie 16"	3.76
192-4110017	1-1/4" Std 4 Strut Coil Tie 17"	3.94
192-4110018	1-1/4" Std 4 Strut Coil Tie 18"	4.12

■ Additional sizes available ■ Water seals available

STANDARD 4 STRUT 1-1/4" CONE FAST COIL TIE

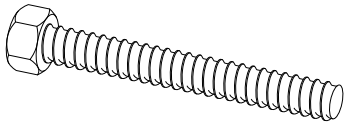
27,000 LBS SAFE WORKING LOAD



PART #	DESCRIPTION	WGT. EA.
192-4310006	1-1/4" Std Fast Cone 4 Strut Coil Tie 6"	2.38
192-4310007	1-1/4" Std Fast Cone 4 Strut Coil Tie 7"	2.42
192-4310008	1-1/4" Std Fast Cone 4 Strut Coil Tie 8"	2.46
192-4310009	1-1/4" Std Fast Cone 4 Strut Coil Tie 9"	2.78
192-4310010	1-1/4" Std Fast Cone 4 Strut Coil Tie 10"	2.96
192-4310011	1-1/4" Std Fast Cone 4 Strut Coil Tie 11"	3.10
192-4310012	1-1/4" Std Fast Cone 4 Strut Coil Tie 12"	3.26
192-4310013	1-1/4" Std Fast Cone 4 Strut Coil Tie 13"	3.44
192-4310014	1-1/4" Std Fast Cone 4 Strut Coil Tie 14"	3.62
192-4310015	1-1/4" Std Fast Cone 4 Strut Coil Tie 15"	3.78
192-4310016	1-1/4" Std Fast Cone 4 Strut Coil Tie 16"	3.96
192-4310017	1-1/4" Std Fast Cone 4 Strut Coil Tie 17"	4.14
192-4310018	1-1/4" Std Fast Cone 4 Strut Coil Tie 18"	4.32

■ Additional sizes available ■ Water seals available

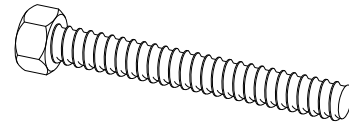
COIL BOLT 1/2"



PART #	DESCRIPTION	WEIGHT EA.
190-0616-02	1/2" Coil Bolt 2" lg	0.12
190-0616-03	1/2" Coil Bolt 3" lg	0.18
190-0616-04	1/2" Coil Bolt 4" lg	0.23
190-0616-05	1/2" Coil Bolt 5" lg	0.29
190-0616-06	1/2" Coil Bolt 6" lg	0.34
190-0616-07	1/2" Coil Bolt 7" lg	0.40
190-0616-08	1/2" Coil Bolt 8" lg	0.45
190-0616-09	1/2" Coil Bolt 9" lg	0.51
190-0616-10	1/2" Coil Bolt 10" lg	0.56
190-0616-12	1/2" Coil Bolt 12" lg	0.67
190-0616-14	1/2" Coil Bolt 14" lg	0.78
190-0616-16	1/2" Coil Bolt 16" lg	0.89
190-0616-18	1/2" Coil Bolt 18" lg	1.00
190-0616-20	1/2" Coil Bolt 20" lg	1.11
190-0616-24	1/2" Coil Bolt 24" lg	1.33

■ Additional sizes available

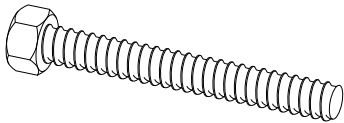
COIL BOLT 3/4"



PART #	DESCRIPTION	WEIGHT EA.
190-0624-02	3/4" Coil Bolt 2" lg	0.31
190-0624-03	3/4" Coil Bolt 3" lg	0.43
190-0624-04	3/4" Coil Bolt 4" lg	0.55
190-0624-05	3/4" Coil Bolt 5" lg	0.67
190-0624-06	3/4" Coil Bolt 6" lg	0.79
190-0624-07	3/4" Coil Bolt 7" lg	0.91
190-0624-08	3/4" Coil Bolt 8" lg	1.03
190-0624-09	3/4" Coil Bolt 9" lg	1.15
190-0624-10	3/4" Coil Bolt 10" lg	1.27
190-0624-12	3/4" Coil Bolt 12" lg	1.51
190-0624-14	3/4" Coil Bolt 14" lg	1.75
190-0624-16	3/4" Coil Bolt 16" lg	1.99
190-0624-18	3/4" Coil Bolt 18" lg	2.23
190-0624-20	3/4" Coil Bolt 20" lg	2.47
190-0624-24	3/4" Coil Bolt 24" lg	2.95

■ Additional sizes available

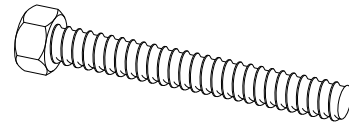
COIL BOLT 1"



PART #	DESCRIPTION	WEIGHT EA.
190-0632-02	1" Coil Bolt 2" lg	0.66
190-0632-04	1" Coil Bolt 4" lg	1.10
190-0632-06	1" Coil Bolt 6" lg	1.54
190-0632-08	1" Coil Bolt 8" lg	1.98
190-0632-10	1" Coil Bolt 10" lg	2.42
190-0632-12	1" Coil Bolt 12" lg	2.86
190-0632-14	1" Coil Bolt 14" lg	3.30
190-0632-16	1" Coil Bolt 16" lg	3.74
190-0632-18	1" Coil Bolt 18" lg	4.18
190-0632-20	1" Coil Bolt 20" lg	4.62
190-0632-24	1" Coil Bolt 24" lg	5.50

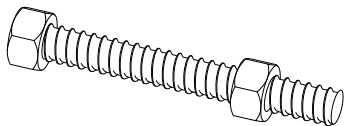
■ Additional sizes available

COIL BOLT 1-1/4"



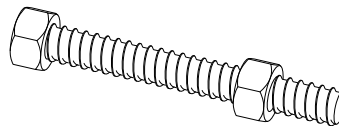
PART #	DESCRIPTION	WEIGHT EA.
190-0640-02	1-1/4" Coil Bolt 2" lg	1.25
190-0640-04	1-1/4" Coil Bolt 4" lg	1.95
190-0640-06	1-1/4" Coil Bolt 6" lg	2.65
190-0640-08	1-1/4" Coil Bolt 8" lg	3.35
190-0640-10	1-1/4" Coil Bolt 10" lg	4.05
190-0640-12	1-1/4" Coil Bolt 12" lg	4.75
190-0640-14	1-1/4" Coil Bolt 14" lg	5.45
190-0640-16	1-1/4" Coil Bolt 16" lg	6.15
190-0640-18	1-1/4" Coil Bolt 18" lg	6.85
190-0640-20	1-1/4" Coil Bolt 20" lg	7.55
190-0640-24	1-1/4" Coil Bolt 24" lg	8.95

■ Additional sizes available

COIL BOLT 1/2" ADJ.

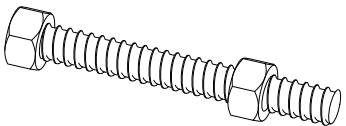
PART #	DESCRIPTION	WEIGHT EA.
190-0716-12	1/2" Adj. Coil Bolt 12" lg	0.75
190-0716-16	1/2" Adj. Coil Bolt 16" lg	0.91
190-0716-18	1/2" Adj. Coil Bolt 18" lg	1.01
190-0716-20	1/2" Adj. Coil Bolt 20" lg	1.09
190-0716-24	1/2" Adj. Coil Bolt 24" lg	1.27
190-0716-30	1/2" Adj. Coil Bolt 30" lg	1.52
190-0716-36	1/2" Adj. Coil Bolt 36" lg	1.78

■ Additional sizes available

COIL BOLT 3/4" ADJ.

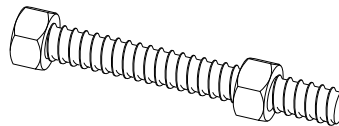
PART #	DESCRIPTION	WEIGHT EA.
190-0724-12	3/4" Adj. Coil Bolt 12" lg	1.48
190-0724-16	3/4" Adj. Coil Bolt 16" lg	1.96
190-0724-18	3/4" Adj. Coil Bolt 18" lg	2.20
190-0724-20	3/4" Adj. Coil Bolt 20" lg	2.44
190-0724-24	3/4" Adj. Coil Bolt 24" lg	2.92
190-0724-30	3/4" Adj. Coil Bolt 30" lg	3.64
190-0724-36	3/4" Adj. Coil Bolt 36" lg	4.36

■ Additional sizes available

COIL BOLT 1" ADJ.

PART #	DESCRIPTION	WEIGHT EA.
190-0732-12	1" Adj. Coil Bolt 12" lg	2.86
190-0732-16	1" Adj. Coil Bolt 16" lg	3.74
190-0732-18	1" Adj. Coil Bolt 18" lg	4.18
190-0732-20	1" Adj. Coil Bolt 20" lg	4.62
190-0732-24	1" Adj. Coil Bolt 24" lg	5.50
190-0732-30	1" Adj. Coil Bolt 30" lg	6.82
190-0732-36	1" Adj. Coil Bolt 36" lg	8.14

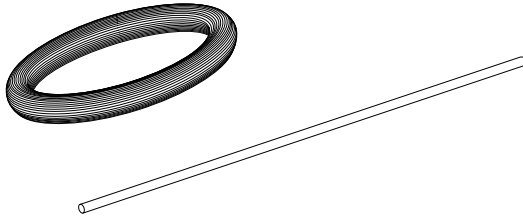
■ Additional sizes available

COIL BOLT 1-1/4" ADJ.

PART #	DESCRIPTION	WEIGHT EA.
190-0740-12	1-1/4" Adj. Coil Bolt 12" lg	4.75
190-0740-16	1-1/4" Adj. Coil Bolt 16" lg	6.15
190-0740-18	1-1/4" Adj. Coil Bolt 18" lg	6.85
190-0740-20	1-1/4" Adj. Coil Bolt 20" lg	7.55
190-0740-24	1-1/4" Adj. Coil Bolt 24" lg	8.95
190-0740-30	1-1/4" Adj. Coil Bolt 30" lg	11.05
190-0740-36	1-1/4" Adj. Coil Bolt 36" lg	13.15

■ Additional sizes available

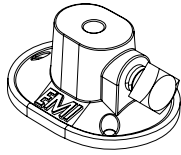
PENCIL ROD



PART #	DESCRIPTION	UNIT	SOLD AS	WGT. EA.	SKID QTY.
051-4001	1/4" Pencil Rod 10'	bundle	50	1.62	N/A
051-4000	1/4" Pencil Rod 20'	bundle	50	3.24	N/A
051-4998	1/4" Pencil Rod Coil	each	1	100	10

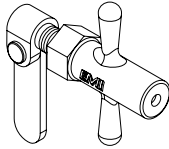
■ Additional lengths available

1/4" PENCIL ROD CLAMP



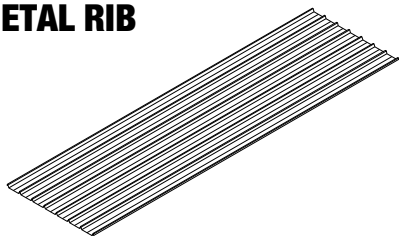
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
370-0001	1/4" Pencil Rod Clamp	box	50	34	1,250

1/4" PENCIL ROD TIGHTENER



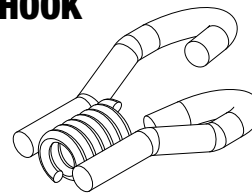
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
370-0002	1/4" Pencil Rod Tightener	each	1	1.4	1,250

STAY RITE METAL RIB



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
115-0001	27" x 96" Metal Rib- Galv.	bundle	5	60	250

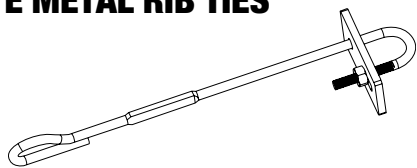
REBAR TRANSITION HOOK



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
191-0000000	Rebar Transition Hook	box	100	45

■ Accommodates up to #6 bar

STAY RITE METAL RIB TIES

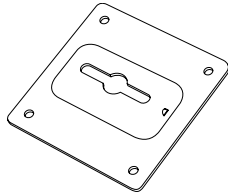


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
115-4006	6" Metal Rib Tie	box	100	26
115-4008	8" Metal Rib Tie	box	100	30
115-4010	10" Metal Rib Tie	box	100	32
115-4012	12" Metal Rib Tie	box	100	35

1-1/8 FORMING SYSTEM TIES AND ACCESSORIES

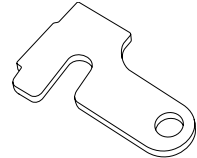
All ties and accessories are compatible with Duraform™ 1-1/8, Advanced™ 1-1/8, Symons™ 1-1/8 Resi Ply™ and Universal™ 1-1/8 Forms. All hardware is plated with zinc dichromate to resist rust and decrease clean up time.

STACKING PLATE



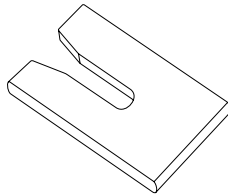
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0001	Stacking Plate	box	100	35	N/A

1" OUTSIDE CORNER LATCH



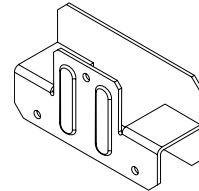
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0005	1" Outside Corner Latch	box	100	28	N/A

1/2 CLIPS



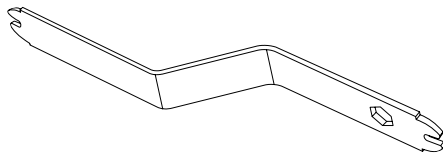
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0003	1/2 Clips	box	250	29	N/A

STACKING CLIPS



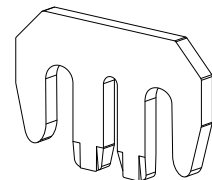
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0006	1-1/8" Stacking Clip	box	50	20	N/A
045-0007	1-1/2" Stacking Clip	box	50	25	N/A

BREAK OFF TOOL



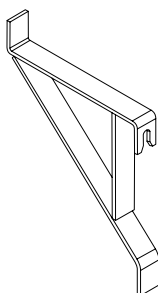
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0004	Break Off Tool - Economy	each	1	1	N/A

CORNER E CLIP

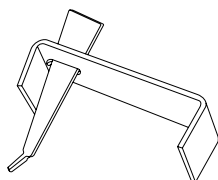


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0014	Corner E Clip	each	1	0.35	N/A

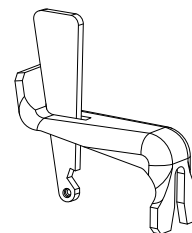
HEAVY DUTY WALER BRACKETS



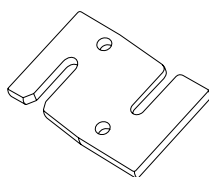
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0412	12" HD Waler Bracket	each	1	7	N/A
045-0410	10" HD Waler Bracket	each	1	5	N/A
045-0408	8" HD Waler Bracket	each	1	4	N/A
045-0406	6" HD Waler Bracket	each	1	3	N/A

TOP WALER

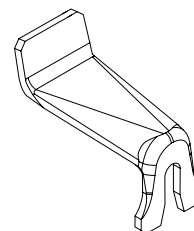
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0013	Top Waler	box	25	34	N/A

4" WALER BRACKET W/WEDGE

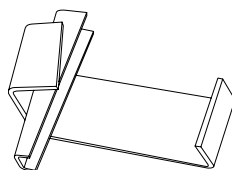
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-1104	4" Waler Brkt. w/Wedge (1 pc.)	box	25	35	N/A

OFFSET CLIP

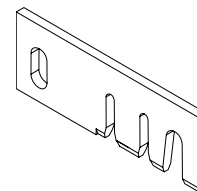
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0016	Offset Clip	box	50	23	N/A

6" WALER BRACKET

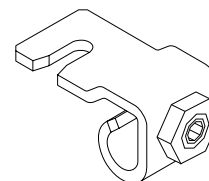
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-1106	6" Waler Bracket	box	25	36	N/A

SLOTTED TOP WALER

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0017	Slotted Top Waler	box	25	40	N/A

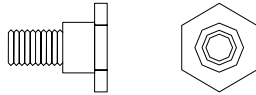
STANDARD LATCH

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
P160-0001	Standard Latch	box	50	38	N/A

CORNER CLIPS

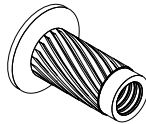
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
045-0390	90° Corner Clip	box	25	25	N/A
045-0345	45° Corner Clip	box	50	29	N/A
045-0330	30° Corner Clip	box	25	13	N/A

5/16-18 HEX SHOULDER BOLT



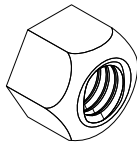
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
P160-0025	x.500" Hex Shldr. Bolt	box	500	19	N/A
P160-0028	x.250" Hex Shldr. Bolt	box	500	12	N/A

SLEEVE NUT



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
P160-0026	Sleeve Nut	box	500	15	N/A

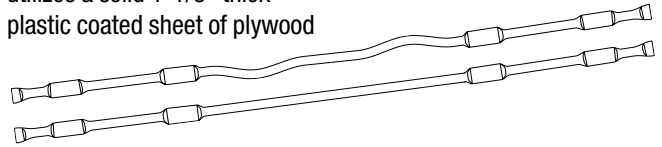
NYLON LOCK NUT



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
P160-0027	Nylon Lock Nut	box	500	1	N/A

RESIDENTIAL WALL TIE

utilizes a solid 1-1/8" thick
plastic coated sheet of plywood



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
042-0006	6" Bent Residential Tie	box	250	44	10,000
042-0008	8" Bent Residential Tie	box	250	51	10,000
042-0010	10" Bent Residential Tie	box	250	58	10,000
042-0012	12" Bent Residential Tie	box	250	66	10,000
042-0014	14" Bent Residential Tie	box	100	30	N/A
042-0016	16" Bent Residential Tie	box	100	33	N/A
042-0018	18" Bent Residential Tie	box	100	36	N/A
042-0020	20" Bent Residential Tie	box	100	40	N/A
042-0022	22" Bent Residential Tie	box	100	43	N/A
042-0024	24" Bent Residential Tie	box	100	46	N/A
042-1006	6" Straight Residential Tie	box	250	44	10,000
042-1008	8" Straight Residential Tie	box	250	51	10,000
042-1010	10" Straight Residential Tie	box	250	58	10,000
042-1012	12" Straight Residential Tie	box	250	66	10,000
042-1014	14" Straight Residential Tie	box	100	30	N/A
042-1016	16" Straight Residential Tie	box	100	33	N/A
042-1018	18" Straight Residential Tie	box	100	36	N/A
042-1020	20" Straight Residential Tie	box	100	40	N/A
042-1022	22" Straight Residential Tie	box	100	43	N/A
042-1024	24" Straight Residential Tie	box	100	46	N/A

■ Additional sizes available ■ Maximum length 42"

BASE TIES

ultimate load	3000 lbs	safety factor rating	2.0-to-1 (1500 lbs)
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PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
NOMINAL					
011-0006	6" Nominal Base Tie	box	100	14	10,000
011-0008	8" Nominal Base Tie	box	100	16	10,000
011-0010	10" Nominal Base Tie	box	100	18	10,000
011-0012	12" Nominal Base Tie	box	100	21	10,000
011-0014	14" Nominal Base Tie	box	100	23	7,500
011-0016	16" Nominal Base Tie	box	100	25	7,500
011-0018	18" Nominal Base Tie	box	100	28	5,000
011-0020	20" Nominal Base Tie	box	100	30	5,000
FULL					
010-0006	6" Full Base Tie	box	100	15	10,000
010-0008	8" Full Base Tie	box	100	17	10,000
010-0010	10" Full Base Tie	box	100	18	10,000
010-0012	12" Full Base Tie	box	100	21	10,000
010-0014	14" Full Base Tie	box	100	23	7,500
010-0016	16" Full Base Tie	box	100	25	7,500
010-0018	18" Full Base Tie	box	100	28	5,000
010-0020	20" Full Base Tie	box	100	30	5,000

■ Additional sizes available

1" BREAK BACK TIES

ultimate load	7000 lbs	safety factor rating	2.0-to-1 (3500 lbs)
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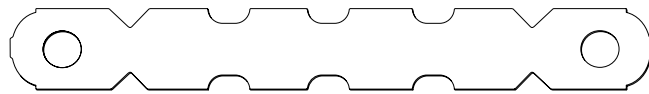
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
NOMINAL					
007-4006	6" Nom 1" Break Back	bundle	100	28	5,000
007-4008	8" Nom 1" Break Back	bundle	100	35	5,000
007-4010	10" Nom 1" Break Back	bundle	100	42	5,000
007-4012	12" Nom 1" Break Back	bundle	100	49	5,000
007-4014	14" Nom 1" Break Back	bundle	50	25	5,000
FULL					
008-4006	6" Full 1" Break Back	bundle	100	29	5,000
008-4008	8" Full 1" Break Back	bundle	100	36	5,000
008-4010	10" Full 1" Break Back	bundle	100	43	5,000
008-4012	12" Full 1" Break Back	bundle	100	50	5,000
008-4014	14" Full 1" Break Back	bundle	50	27	5,000

■ Additional sizes available

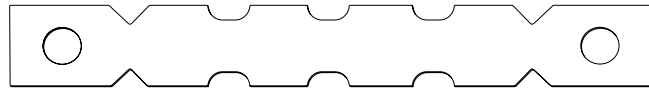
NOMINAL WALL TIES

with standard break back

ultimate load	7500 lbs	safety factor rating	2.0-to-1 (3750 lbs)
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standard round end



square end

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
007-0004	4" Nominal Tie	bundle	100	22	10,000
007-0006	6" Nominal Tie	bundle	100	28	5,000
017-1006	6" Nominal Tie (Square End)	bundle	100	28	5,000
007-0008	8" Nominal Tie	bundle	100	33	5,000
017-1008	8" Nominal Tie (Square End)	bundle	100	33	5,000
007-0010	10" Nominal Tie	bundle	100	39	5,000
017-1010	10" Nominal Tie (Square End)	bundle	100	39	5,000
007-0012	12" Nominal Tie	bundle	100	45	5,000
017-1012	12" Nominal Tie (Square End)	bundle	100	45	5,000
007-0014	14" Nominal Tie	bundle	50	27	5,000
007-0016	16" Nominal Tie	bundle	50	30	5,000
007-0018	18" Nominal Tie	bundle	50	34	5,000
007-0020	20" Nominal Tie	bundle	50	37	2,500
007-0022	22" Nominal Tie	bundle	50	40	2,500
007-0024	24" Nominal Tie	bundle	50	43	2,500

TWO COMBO (FOR USE WITH SNAP-ON WALER BRACKETS ONLY)

007-0208	6-8" Nominal Tie	bundle	100	33	10,000
007-0210	8-10" Nominal Tie	bundle	100	37	10,000
007-0212	10-12" Nominal Tie	bundle	100	44	10,000
007-0214	12-14" Nominal Tie	bundle	50	28	5,000
007-0216	14-16" Nominal Tie	bundle	50	30	5,000
007-0218	16-18" Nominal Tie	bundle	50	34	5,000
007-0220	18-20" Nominal Tie	bundle	50	36	2,500
007-0222	20-22" Nominal Tie	bundle	50	39	2,500
007-0224	22-24" Nominal Tie	bundle	50	42	2,500

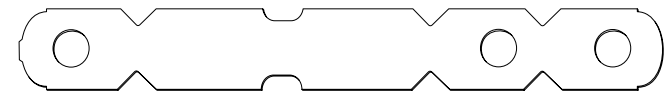
THREE COMBO (FOR USE WITH SNAP-ON WALER BRACKETS ONLY)

007-0310	6-8-10" Nominal Tie	bundle	100	37	10,000
007-0312	8-10-12" Nominal Tie	bundle	100	44	10,000
007-0314	10-12-14" Nominal Tie	bundle	50	28	5,000
007-0316	12-14-16" Nominal Tie	bundle	50	30	5,000
007-0318	14-16-18" Nominal Tie	bundle	50	33	5,000
007-0320	16-18-20" Nominal Tie	bundle	50	36	2,500
007-0322	18-20-22" Nominal Tie	bundle	50	37	2,500
007-0324	20-22-24" Nominal Tie	bundle	50	40	2,500

FULL WALL TIES

with standard break back

ultimate load	7500 lbs	safety factor rating	2.0-to-1 (3750 lbs)
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two combo



three combo

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
008-0004	4" Full Tie	bundle	100	24	10,000
008-0006	6" Full Tie	bundle	100	29	5,000
018-1006	6" Full Tie (Square End)	bundle	100	29	5,000
008-0008	8" Full Tie	bundle	100	34	5,000
018-1008	8" Full Tie (Square End)	bundle	100	34	5,000
008-0010	10" Full Tie	bundle	100	40	5,000
018-1010	10" Full Tie (Square End)	bundle	100	40	5,000
008-0012	12" Full Tie	bundle	100	46	5,000
018-1012	12" Full Tie (Square End)	bundle	100	46	5,000
008-0014	14" Full Tie	bundle	50	28	5,000
008-0016	16" Full Tie	bundle	50	31	5,000
008-0018	18" Full Tie	bundle	50	35	5,000
008-0020	20" Full Tie	bundle	50	38	2,500
008-0022	22" Full Tie	bundle	50	41	2,500
008-0024	24" Full Tie	bundle	50	44	2,500

TWO COMBO (FOR USE WITH SNAP-ON WALER BRACKETS ONLY)

008-0208	6-8" Full Tie	bundle	100	34	10,000
008-0210	8-10" Full Tie	bundle	100	38	10,000
008-0212	10-12" Full Tie	bundle	100	45	10,000
008-0214	12-14" Full Tie	bundle	50	29	5,000
008-0216	14-16" Full Tie	bundle	50	31	5,000
008-0218	16-18" Full Tie	bundle	50	35	5,000
008-0220	18-20" Full Tie	bundle	50	37	2,500
008-0222	20-22" Full Tie	bundle	50	40	2,500
008-0224	22-24" Full Tie	bundle	50	43	2,500

THREE COMBO (FOR USE WITH SNAP-ON WALER BRACKETS ONLY)

008-0310	6-8-10" Full Tie	bundle	100	38	10,000
008-0312	8-10-12" Full Tie	bundle	100	45	10,000
008-0314	10-12-14" Full Tie	bundle	50	29	5,000
008-0316	12-14-16" Full Tie	bundle	50	31	5,000
008-0318	14-16-18" Full Tie	bundle	50	34	5,000
008-0320	16-18-20" Full Tie	bundle	50	37	2,500
008-0322	18-20-22" Full Tie	bundle	50	38	2,500
008-0324	20-22-24" Full Tie	bundle	50	41	2,500

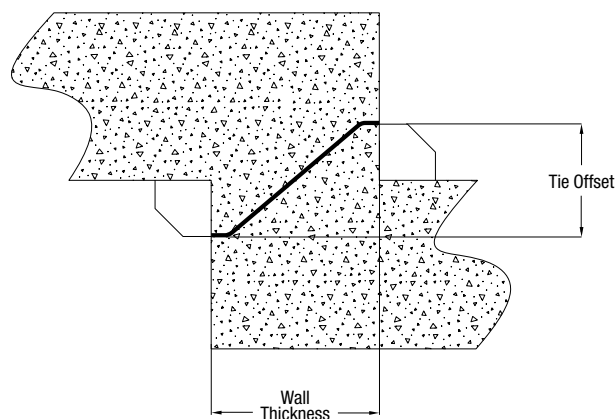
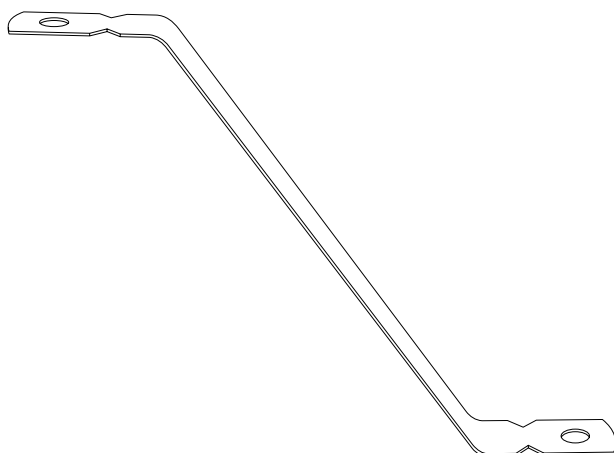
■ Additional sizes available

■ Discounts available for 6", 8", 10" and 12".

OFFSET TIE

used to form offsets

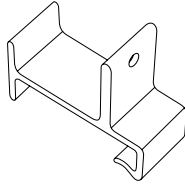
- Prevents corner(s) from kinking
- Economical – same vertical spacing as regular ties
- Eliminates additional bracing
- Breaks off horizontally to the wall for a clean finish
- Provides a better water seal



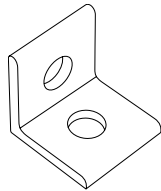
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
NOMINAL					
007-0406-OS	6" Nom (4" OS)	bundle	50	19	5,000
007-0606-OS	6" Nom (6" OS)	bundle	50	22	5,000
007-0806-OS	6" Nom (8" OS)	bundle	50	25	4,000
007-1006-OS	6" Nom (10" OS)	bundle	50	28	4,000
007-1206-OS	6" Nom (12" OS)	bundle	50	31	3,500
007-0408-OS	8" Nom (4" OS)	bundle	50	22	5,000
007-0608-OS	8" Nom (6" OS)	bundle	50	23	4,500
007-0808-OS	8" Nom (8" OS)	bundle	50	26	4,000
007-1008-OS	8" Nom (10" OS)	bundle	50	29	3,500
007-1208-OS	8" Nom (12" OS)	bundle	50	32	3,500
007-0410-OS	10" Nom (4" OS)	bundle	50	24	4,500
007-0610-OS	10" Nom (6" OS)	bundle	50	26	4,000
007-0810-OS	10" Nom (8" OS)	bundle	50	28	4,000
007-1010-OS	10" Nom (10" OS)	bundle	50	31	3,500
007-1210-OS	10" Nom (12" OS)	bundle	50	33	3,000
007-0412-OS	12" Nom (4" OS)	bundle	50	27	4,000
007-0612-OS	12" Nom (6" OS)	bundle	50	28	4,000
007-0812-OS	12" Nom (8" OS)	bundle	50	30	3,500
007-1012-OS	12" Nom (10" OS)	bundle	50	33	3,500
007-1212-OS	12" Nom (12" OS)	bundle	50	35	3,000
FULL					
008-0406-OS	6" Full (4" OS)	bundle	50	19	5,000
008-0606-OS	6" Full (6" OS)	bundle	50	22	5,000
008-0806-OS	6" Full (8" OS)	bundle	50	25	4,000
008-1006-OS	6" Full (10" OS)	bundle	50	28	4,000
008-1206-OS	6" Full (12" OS)	bundle	50	31	3,500
008-0408-OS	8" Full (4" OS)	bundle	50	21	5,000
008-0608-OS	8" Full (6" OS)	bundle	50	24	4,500
008-0808-OS	8" Full (8" OS)	bundle	50	26	4,000
008-1008-OS	8" Full (10" OS)	bundle	50	29	3,500
008-1208-OS	8" Full (12" OS)	bundle	50	32	3,500
008-0410-OS	10" Full (4" OS)	bundle	50	24	4,500
008-0610-OS	10" Full (6" OS)	bundle	50	26	4,000
008-0810-OS	10" Full (8" OS)	bundle	50	28	4,000
008-1010-OS	10" Full (10" OS)	bundle	50	31	3,500
008-1210-OS	10" Full (12" OS)	bundle	50	33	3,000
008-0412-OS	12" Full (4" OS)	bundle	50	27	4,000
008-0612-OS	12" Full (6" OS)	bundle	50	29	4,000
008-0812-OS	12" Full (8" OS)	bundle	50	31	3,500
008-1012-OS	12" Full (10" OS)	bundle	50	33	3,000
008-1212-OS	12" Full (12" OS)	bundle	50	35	3,000

■ EMI will not be responsible for ties bent or altered after shipment.

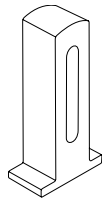
■ Additional sizes available

ALUMINUM CAP CLIP

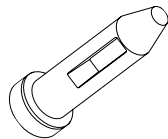
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
014-0002	Aluminum Cap Clip	box	100	8	5,000

90° ANGLE CLIP

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
014-0003	90° Angle Clip	box	100	17	5,000

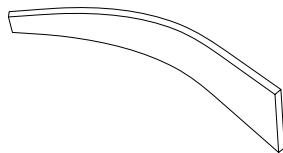
**“SILVER BULLET”
BASE PIN**

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
014-0001	Silver Bullet Base Pin	box	500	16	10,000

ROUND HEAD PIN

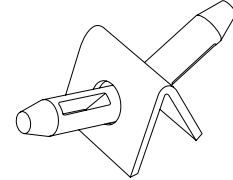
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
065-1002	Standard Rnd Head Pin	pail	250	58	12,000

■ Discount at 5000 pcs.

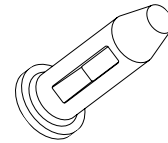
CURVED WEDGE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
013-0001	Curved Wedge	pail	250	26	16,000

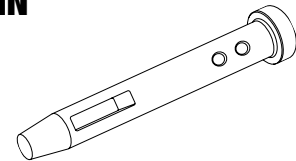
■ Discount at 5000 pcs.

45° ANGLE PIN

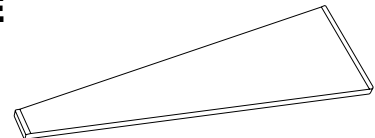
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
043-1006	45 Angle Pin	pail	50	30	3,000

FLAT HEAD PIN

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
065-1001	Flat Head Pin	pail	250	38	5,000

COMBO FILLER PIN

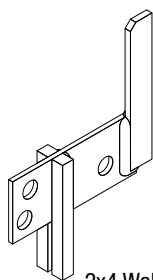
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
065-1003	Combo Filler Pin	pail	75	30	N/A

FLAT WEDGE

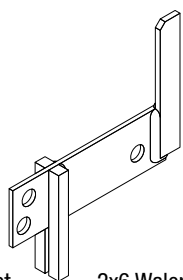
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
013-0003	Flat Wedge	pail	250	26	16,000

■ Discount at 5000 pcs.

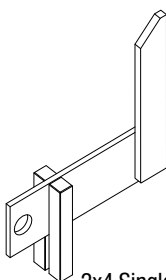
SMOOTH/BRICK FACE WALER BRACKET



2x4 Waler Bracket

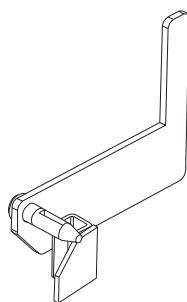


2x6 Waler Bracket

2x4 Single Hole
Waler Bracket
(smooth)

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
066-1001	2 x 4 Waler Bracket	each	1	1.6
066-1101	2 x 4 Single Hole Waler Bracket	each	1	1.6
066-2001	2 x 6 Waler Bracket	each	1	1.9
066-3001	2 x 8 Waler Bracket	each	1	2.3
066-4001	2 x 10 Waler Bracket	each	1	2.6

WEDGELESS WALER

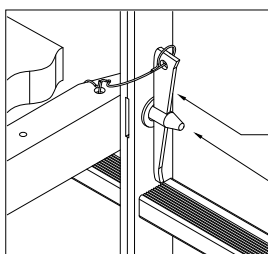
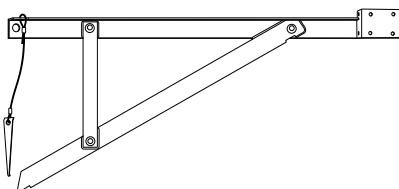


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.
068-0006	6" Wedgeless Waler	each	1	2.4

Fast, self-locking, wedgeless waler for aluminum forms. Fewer wedges to use/lose.

SCAFFOLD BRACKET

for aluminum forming system



S-Wedge 054-2011
must be used

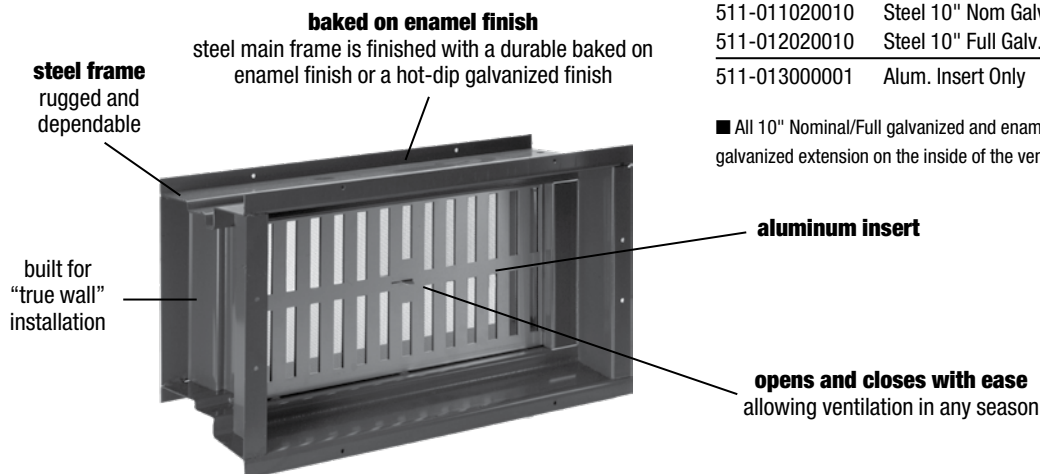
Round Head Pin

The Scaffold Bracket provides a safe working area for the contractor. The maximum safe load of the scaffold bracket is 500 lbs. (4-to-1 safety factor). Do not space more than 8 feet apart.

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
062-7800	Scaffold Bracket	each	1	15	100

FOUNDATION WINDOW VENT

This complete ventilation system is ready to install in a self-contained frame for ease in adapting to any wall condition. Available in enamel or hot-dip galvanized finishes.

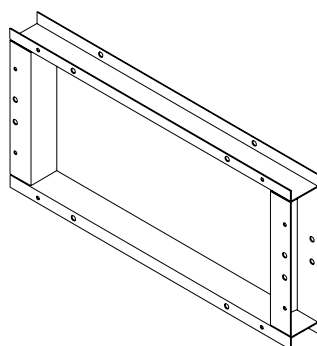


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
511-011010008	Steel 8" Nom Enamel	each	1	10.8	80
511-012010008	Steel 8" Full Enamel	each	1	10.8	80
511-011020008	Steel 8" Nom Galv.	each	1	10.8	80
511-012020008	Steel 8" Full Galv.	each	1	10.8	80
511-011010010	Steel 10" Nom Enamel	each	1	14	60
511-012010010	Steel 10" Full Enamel	each	1	14	60
511-011020010	Steel 10" Nom Galv.	each	1	14	60
511-012020010	Steel 10" Full Galv.	each	1	14	60
511-013000001	Alum. Insert Only	each	1	0.75	N/A

■ All 10" Nominal/Full galvanized and enamel vents will have a factory-installed galvanized extension on the inside of the vent.

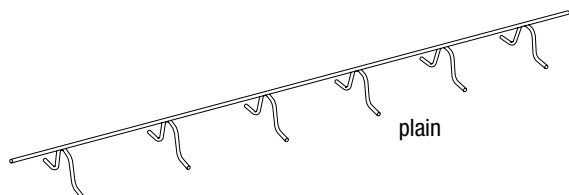
FOUNDATION VENT EXTENSION

Foundation Vent Extension is used to make 10" Nominal and 10" Full Foundation Vents by attaching this extension to 8" Nominal and 8" Full Foundation Vents. The Extension is attached to the vents by using screws that are included with the purchase of an Extension. Extension is hot-dip galvanized.



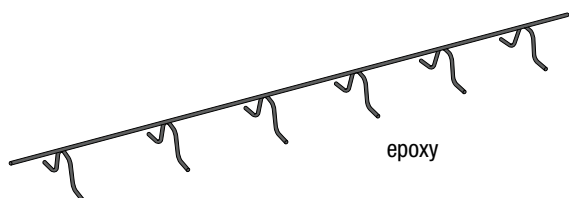
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
511-013030205	2" Vent Ext.-Galv.	each	1	3	N/A

SLAB BOLSTER



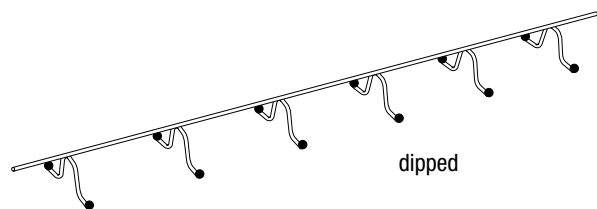
PLAIN PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
453-001000	3/4"x5' Slab Bolster - Plain	bundle	20	3,000
453-002000	1"x5' Slab Bolster - Plain	bundle	20	3,000
453-003000	1-1/2"x5' Slab Bolster - Plain	bundle	20	2,000
453-004000	2"x5' Slab Bolster - Plain	bundle	20	2,000
453-005000	2-1/2"x5' Slab Bolster - Plain	bundle	20	2,000
453-006000	3"x5' Slab Bolster - Plain	bundle	20	1,200
453-007000	3-1/2"x5' Slab Bolster - Plain	bundle	20	1,200
453-400000	4"x5' Slab Bolster - Plain	bundle	20	1,200
453-500000	5"x5' Slab Bolster - Plain	bundle	20	1,000
453-600000	6"x5' Slab Bolster - Plain	bundle	20	500

■ Additional sizes available



EPOXY PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
453-075100	3/4"x5' Slab Bolster - Epoxy	bundle	20	3,000
453-100100	1"x5' Slab Bolster - Epoxy	bundle	20	3,000
453-150100	1-1/2"x5' Slab Bolster - Epoxy	bundle	20	2,000
453-200100	2"x5' Slab Bolster - Epoxy	bundle	20	2,000
453-250100	2-1/2"x5' Slab Bolster - Epoxy	bundle	20	2,000
453-300100	3"x5' Slab Bolster - Epoxy	bundle	20	1,200
453-350100	3-1/2"x5' Slab Bolster - Epoxy	bundle	20	1,200
453-400100	4"x5' Slab Bolster - Epoxy	bundle	20	1,200
453-500100	5"x5' Slab Bolster - Epoxy	bundle	20	1,000
453-600100	6"x5' Slab Bolster - Epoxy	bundle	20	500

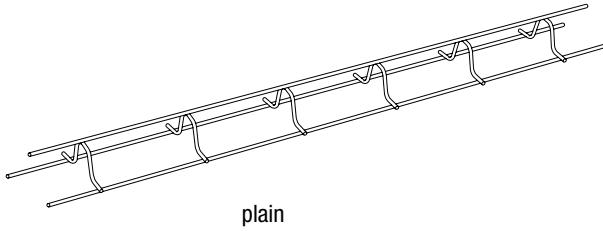
■ Additional sizes available



DIPPED PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
452-001000	3/4"x5' Slab Bolster - Dipped	bundle	20	3,000
452-002000	1"x5' Slab Bolster - Dipped	bundle	20	3,000
452-003000	1-1/2"x5' Slab Bolster - Dipped	bundle	20	2,000
452-004000	2"x5' Slab Bolster - Dipped	bundle	20	2,000
452-005000	2-1/2"x5' Slab Bolster - Dipped	bundle	20	2,000
452-006000	3"x5' Slab Bolster - Dipped	bundle	20	1,200
452-350000	3-1/2"x5' Slab Bolster - Dipped	bundle	20	1,200
452-400000	4"x5' Slab Bolster - Dipped	bundle	20	1,200
452-500000	5"x5' Slab Bolster - Dipped	bundle	20	1,000
452-600000	6"x5' Slab Bolster - Dipped	bundle	20	500

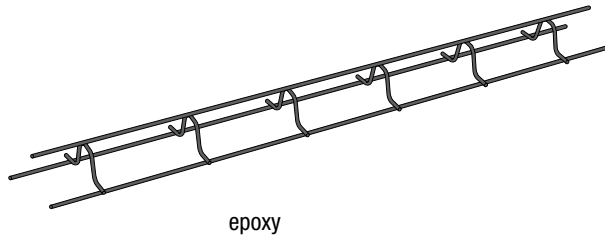
■ Additional sizes available

SLAB BOLSTER UPPER



PLAIN PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
451-001000	3/4"x5' Slab Bolster Upper - Plain	bundle	20	1,000
451-002000	1"x5' Slab Bolster Upper - Plain	bundle	20	1,000
451-003000	1-1/2"x5' Slab Bolster Upper - Plain	bundle	20	1,000
451-004000	2"x5' Slab Bolster Upper - Plain	bundle	20	1,000
451-005000	2-1/2"x5' Slab Bolster Upper - Plain	bundle	20	800
451-006000	3"x5' Slab Bolster Upper - Plain	bundle	20	800
451-350000	3-1/2"x5' Slab Bolster Upper - Plain	bundle	20	800
451-007000	4"x5' Slab Bolster Upper - Plain	bundle	20	700
451-500000	5"x5' Slab Bolster Upper - Plain	bundle	20	500
451-600000	6"x5' Slab Bolster Upper - Plain	bundle	20	500

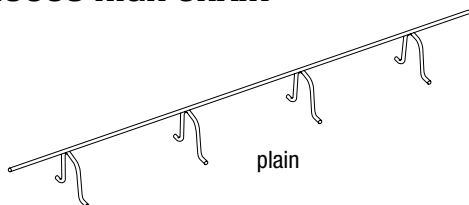
■ Additional sizes available



EPOXY PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
451-075100	3/4"x5' Slab Bolster Upper - Epoxy	bundle	20	1,000
451-100100	1"x5' Slab Bolster Upper - Epoxy	bundle	20	1,000
451-150100	1-1/2"x5' Slab Bolster Upper - Epoxy	bundle	20	1,000
451-200100	2"x5' Slab Bolster Upper - Epoxy	bundle	20	1,000
451-250100	2-1/2"x5' Slab Bolster Upper - Epoxy	bundle	20	800
451-300100	3"x5' Slab Bolster Upper - Epoxy	bundle	20	800
451-350100	3-1/2"x5' Slab Bolster Upper - Epoxy	bundle	20	800
451-400100	4"x5' Slab Bolster Upper - Epoxy	bundle	20	700
451-500100	5"x5' Slab Bolster Upper - Epoxy	bundle	20	500
451-600100	6"x5' Slab Bolster Upper - Epoxy	bundle	20	500

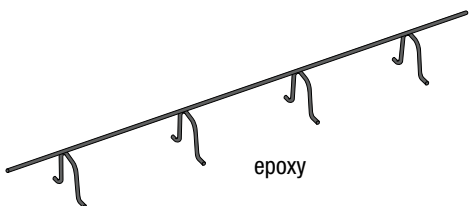
■ Additional sizes available

CONTINUOUS HIGH CHAIR



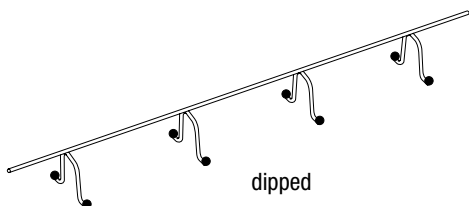
PLAIN PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
449-003000	3"x5' Continuous High Chair - Plain	bundle	20	1,000
449-004000	3-1/2"x5' Continuous High Chair - Plain	bundle	20	1,000
449-005000	4"x5' Continuous High Chair - Plain	bundle	20	1,000
449-006000	5"x5' Continuous High Chair - Plain	bundle	20	1,000
449-007000	6"x5' Continuous High Chair - Plain	bundle	20	500

■ Additional sizes available



EPOXY PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
449-300100	3"x5' Continuous High Chair - Epoxy	bundle	20	1,000
449-350100	3-1/2"x5' Continuous High Chair - Epoxy	bundle	20	1,000
449-400100	4"x5' Continuous High Chair - Epoxy	bundle	20	1,000
449-500100	5"x5' Continuous High Chair - Epoxy	bundle	20	1,000
449-600100	6"x5' Continuous High Chair - Epoxy	bundle	20	500

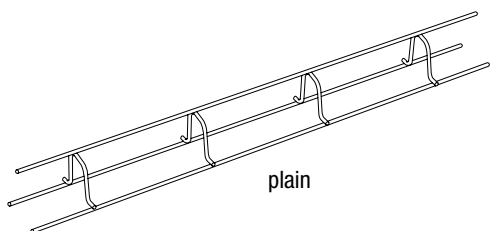
■ Additional sizes available



DIPPED PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
448-010003	3"x5' Continuous High Chair - Dipped	bundle	20	1,000
448-011003	3-1/2"x5' Continuous High Chair - Dipped	bundle	20	1,000
448-010004	4"x5' Continuous High Chair - Dipped	bundle	20	1,000
448-010005	5"x5' Continuous High Chair - Dipped	bundle	20	1,000
448-010006	6"x5' Continuous High Chair - Dipped	bundle	20	500

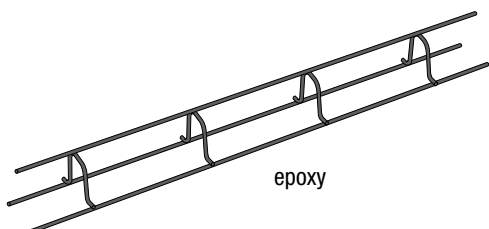
■ Additional sizes available

CONTINUOUS HIGH CHAIR UPPER



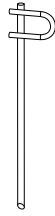
PLAIN PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
450-010002	2"x5' Continuous High Chair Upper - Plain	bundle	20	1,000
450-250000	2-1/2"x5' Continuous High Chair Upper - Plain	bundle	20	600
450-010003	3"x5' Continuous High Chair Upper - Plain	bundle	20	600
450-011003	3-1/2"x5' Continuous High Chair Upper - Plain	bundle	20	500
450-010004	4"x5' Continuous High Chair Upper - Plain	bundle	20	500
450-010005	5"x5' Continuous High Chair Upper - Plain	bundle	20	500
450-010006	6"x5' Continuous High Chair Upper - Plain	bundle	20	500

■ Additional sizes available

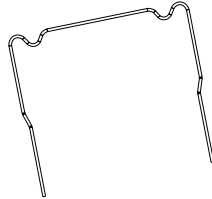


EPOXY PART #	DESCRIPTION	UNIT	SOLD AS	SKID QTY.
450-200100	2"x5' Continuous High Chair Upper - Epoxy	bundle	20	1,000
450-250100	2-1/2"x5' Continuous High Chair Upper - Epoxy	bundle	20	600
450-300100	3"x5' Continuous High Chair Upper - Epoxy	bundle	20	600
450-350100	3-1/2"x5' Continuous High Chair Upper - Epoxy	bundle	20	500
450-400100	4"x5' Continuous High Chair Upper - Epoxy	bundle	20	500
450-500100	5"x5' Continuous High Chair Upper - Epoxy	bundle	20	500
450-600100	6"x5' Continuous High Chair Upper - Epoxy	bundle	20	500

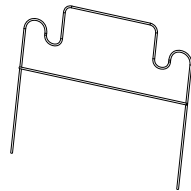
■ Additional sizes available

P STAKE

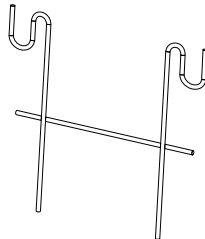
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
438-0010	10" P Stake	box	100	26	N/A
438-0012	12" P Stake	box	100	30	N/A

REBAR HOLDER

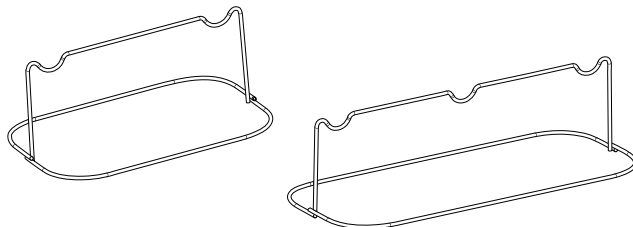
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
445-0002	Rebar Holder	box	100	17	5,000

SPEED CHAIR

PLAIN PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT	SKID QTY
445-0004	Speed Chair	box	100	25	2,700

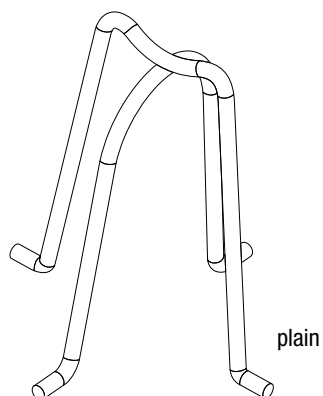
HEAVY DUTY REBAR FOOTING CHAIR

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
445-0003	HD Rebar Footing Chair	box	75	31	2,400

REBAR FOOTER CHAIR

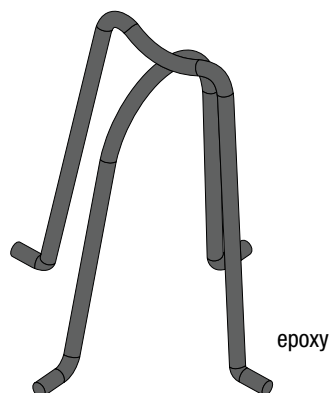
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
445-0006	#2 3 x 6/8 Rebar Footer Chair	box	100	12	N/A
445-0007	#3 3 x 10/16 Rebar Footer Chair	box	100	15	N/A

INDIVIDUAL STEEL HI CHAIR



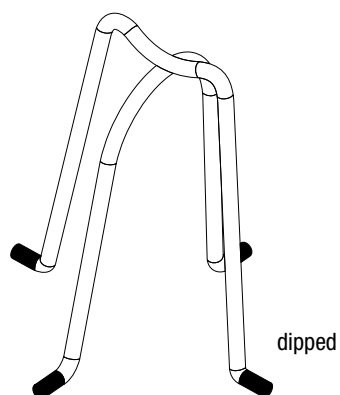
PLAIN PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT	SKID QTY
445-2002	2" Ind Steel Hi Chair -Plain	box	100	21	N/A
445-2322	2-1/2" Ind Steel Hi Chair -Plain	box	100	22	N/A
445-2003	3" Ind Steel Hi Chair -Plain	box	100	23	N/A
445-2323	3-1/2" Ind Steel Hi Chair -Plain	box	100	25	N/A
445-2004	4" Ind Steel Hi Chair -Plain	box	100	26	N/A

■ Additional sizes available



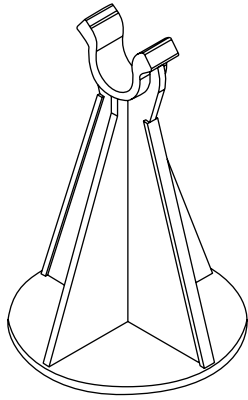
EPOXY PART#	DESCRIPTION	UNIT	SOLD AS	UNIT WGT	SKID QTY
445-3002	2" Ind Steel Hi Chair - Epoxy	box	100	21	N/A
445-3322	2-1/2" Ind Steel Hi Chair - Epoxy	box	100	22	N/A
445-3003	3" Ind Steel Hi Chair - Epoxy	box	100	23	N/A
445-3323	3-1/2" Ind Steel Hi Chair - Epoxy	box	100	25	N/A
445-3004	4" Ind Steel Hi Chair - Epoxy	box	100	26	N/A

■ Additional sizes available

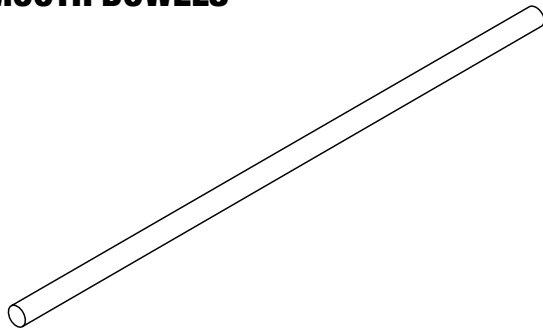


DIPPED PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT	SKID QTY
445-4002	2" Ind Steel Hi Chair - Dipped	box	100	21	N/A
445-4322	2-1/2" Ind Steel Hi Chair - Dipped	box	100	22	N/A
445-4003	3" Ind Steel Hi Chair - Dipped	box	100	23	N/A
445-4323	3-1/2" Ind Steel Hi Chair - Dipped	box	100	25	N/A
445-4004	4" Ind Steel Hi Chair - Dipped	box	100	26	N/A

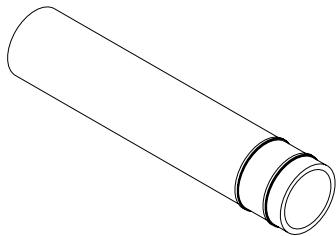
■ Additional sizes available

PAVING CHAIRS

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT
443-0225	2-1/4" Paving Chair	bag	500	10
443-0325	3-1/4" Paving Chair	bag	500	19
443-0400	4" Paving Chair	bag	300	21

SMOOTH DOWELS

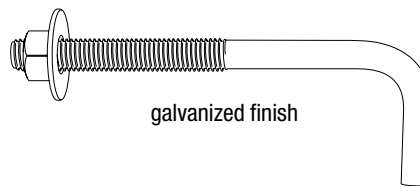
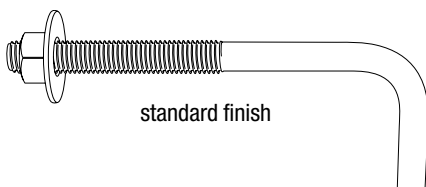
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT
090-0418	1/2" x 18" Smooth Dowel	bundle	25	28
090-0424	1/2" x 24" Smooth Dowel	bundle	25	34
090-0518	5/8" x 18" Smooth Dowel	bundle	20	32
090-0524	5/8" x 24" Smooth Dowel	bundle	20	42
090-0530	5/8" x 30" Smooth Dowel	bundle	20	52
090-0618	3/4" x 18" Smooth Dowel	bundle	15	34
090-0624	5/8" x 24" Smooth Dowel	bundle	15	45

DOWEL CAPS

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT
090-0001	1/2" x 4" Dowel Cap	box	1000	18
090-0002	5/8" x 4" Dowel Cap	box	800	20
090-0003	3/4" x 4" Dowel Cap	box	600	19

ANCHOR BOLTS

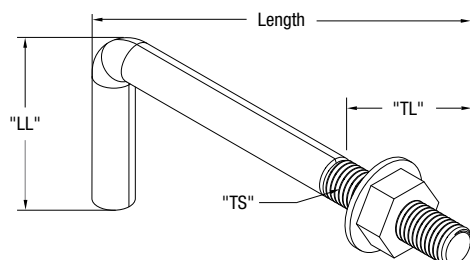
washer and nut included



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
070-2006	1/2" x 6" Anchor Bolt	box	50	18	2,500
070-2008	1/2" x 8" Anchor Bolt	box	50	22	2,500
070-2010	1/2" x 10" Anchor Bolt	box	50	26	2,500
070-2012	1/2" x 12" Anchor Bolt	box	50	31	2,500
070-2014	1/2" x 14" Anchor Bolt	box	50	34	2,500
070-2016	1/2" x 16" Anchor Bolt	box	50	37	2,500
070-2018	1/2" x 18" Anchor Bolt	box	50	43	2,500
070-2020	1/2" x 20" Anchor Bolt	box	50	46	2,500
070-3006	5/8" x 6" Anchor Bolt	box	25	15	1,250
070-3008	5/8" x 8" Anchor Bolt	box	25	18	1,250
070-3010	5/8" x 10" Anchor Bolt	box	25	21	1,250
070-3012	5/8" x 12" Anchor Bolt	box	25	24	1,250
070-3014	5/8" x 14" Anchor Bolt	box	25	28	1,250
070-3016	5/8" x 16" Anchor Bolt	box	25	31	1,250
070-3018	5/8" x 18" Anchor Bolt	box	25	35	1,250
070-4006	3/4" x 6" Anchor Bolt	box	20	21	500
070-4008	3/4" x 8" Anchor Bolt	box	20	25	500
070-4010	3/4" x 10" Anchor Bolt	box	20	29	500
070-4012	3/4" x 12" Anchor Bolt	box	20	32	500
070-4014	3/4" x 14" Anchor Bolt	box	20	36	500
070-4016	3/4" x 16" Anchor Bolt	box	20	40	500
070-4018	3/4" x 18" Anchor Bolt	box	20	44	500
070-4020	3/4" x 20" Anchor Bolt	box	20	48	500
070-4024	3/4" x 24" Anchor Bolt	box	20	56	500
070-5012	1" x 12" Anchor Bolt	box	10	36	N/A
070-5018	1" x 18" Anchor Bolt	box	10	43	N/A
070-5024	1" x 24" Anchor Bolt	box	10	49	N/A

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
070-2106	1/2" x 6" Anc Bolt (Galv)	box	50	18	2,500
070-2108	1/2" x 8" Anc Bolt (Galv)	box	50	22	2,500
070-2110	1/2" x 10" Anc Bolt (Galv)	box	50	26	2,500
070-2112	1/2" x 12" Anc Bolt (Galv)	box	50	31	2,500
070-2114	1/2" x 14" Anc Bolt (Galv)	box	50	34	2,500
070-2116	1/2" x 16" Anc Bolt (Galv)	box	50	37	2,500
070-2118	1/2" x 18" Anc Bolt (Galv)	box	50	43	2,500
070-2120	1/2" x 20" Anc Bolt (Galv)	box	50	46	2,500
070-3106	5/8" x 6" Anc Bolt (Galv)	box	25	15	1,250
070-3108	5/8" x 8" Anc Bolt (Galv)	box	25	18	1,250
070-3110	5/8" x 10" Anc Bolt (Galv)	box	25	21	1,250
070-3112	5/8" x 12" Anc Bolt (Galv)	box	25	24	1,250
070-3114	5/8" x 14" Anc Bolt (Galv)	box	25	27	1,250
070-3116	5/8" x 16" Anc Bolt (Galv)	box	25	31	1,250
070-3118	5/8" x 18" Anc Bolt (Galv)	box	25	35	1,250
070-4108	3/4" x 8" Anc Bolt (Galv)	box	20	25	500
070-4110	3/4" x 10" Anc Bolt (Galv)	box	20	29	500
070-4112	3/4" x 12" Anc Bolt (Galv)	box	20	32	500
070-4114	3/4" x 14" Anc Bolt (Galv)	box	20	36	500
070-4116	3/4" x 16" Anc Bolt (Galv)	box	20	40	500
070-4118	3/4" x 18" Anc Bolt (Galv)	box	20	44	500
070-4120	3/4" x 20" Anc Bolt (Galv)	box	20	48	500
070-4124	3/4" x 24" Anc Bolt (Galv)	box	20	56	500

■ Additional sizes may be available



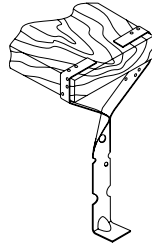
DIAMETER	"TS" THREAD SIZE	"TL" THREAD LENGTH	"LL" LEG LENGTH
1/2"	1/2-13	2"	1-1/4"
5/8"	5/8-11	3-3/4"	1-1/2"
3/4"	3/4-10	3-3/4"	2"
1"	1-8	5-3/4"	2-1/2"

ANCHOR STRAP

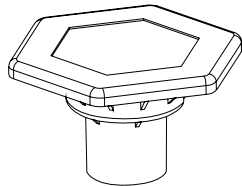
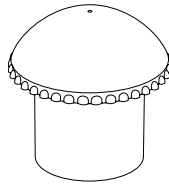
ICC-ES Legacy Report #21-86.01 (Boca approved)
(G185) galvanized



14-3/4" (top view)

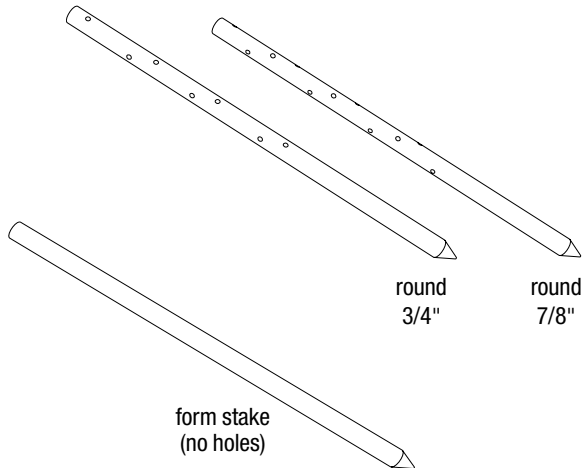


PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
072-1001	14-3/4" Galv. Anchor Strap	box	50	12	5,000

REBAR SAFETY CAPSOSHA
reinforced

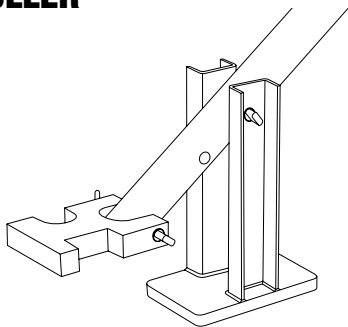
standard

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
150-0001	Rebar Safety Cap	box	100	7	5,000
150-0002	OSHA Reinforced Safety Cap	box	50	23	4,550

STEEL NAIL STAKEround
3/4"round
7/8"form stake
(no holes)

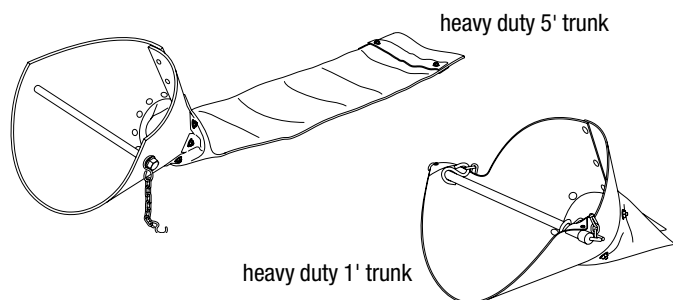
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
ROUND					
087-1012	3/4" x 12" Rd. Stake Std.	box	10	16	1,500
087-1018	3/4" x 18" Rd. Stake Std.	box	10	21	1,000
087-1024	3/4" x 24" Rd. Stake Std.	box	10	26	500
087-1030	3/4" x 30" Rd. Stake Std.	box	10	31	500
087-1036	3/4" x 36" Rd. Stake Std.	box	10	38	500
087-1042	3/4" x 42" Rd. Stake Std.	box	10	43	500
087-1048	3/4" x 48" Rd. Stake Std.	box	10	48	350
088-1018	7/8" x 18" Rd. Stake Std.	box	10	30	800
088-1024	7/8" x 24" Rd. Stake Std.	box	10	39	500
088-1030	7/8" x 30" Rd. Stake Std.	box	10	50	500
088-1036	7/8" x 36" Rd. Stake Std.	box	10	60	400
FORM STAKE/NO HOLES					
089-2818	7/8" x 18" Rd. Form Stake	box	10	30	800
089-2824	7/8" x 24" Rd. Form Stake	box	10	39	500
089-2830	7/8" x 30" Rd. Form Stake	box	10	50	500
089-2836	7/8" x 36" Rd. Form Stake	box	10	60	400
089-2842	7/8" x 42" Rd. Form Stake	box	10	70	350

MULTI-PURPOSE STAKE PULLER



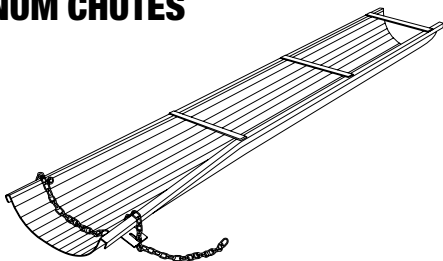
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
200-1401	Stake Puller	each	1	11	N/A

SLURRY CHUTES



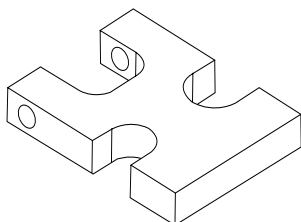
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
096-0801	8" x 1' HD Slurry Chute	each	1	15	N/A
096-0805	8" x 5' HD Slurry Chute	each	1	18	N/A
P096-0801-2	1' Replacement Trunk	each	1	7	N/A
P096-0805-2	5' Replacement Trunk	each	1	10	N/A

ALUMINUM CHUTES



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
097-0008	8' Aluminum Chute	each	1	33	N/A
097-0012	12' Aluminum Chute	each	1	48	N/A
097-0016	16' Aluminum Chute	each	1	65	N/A
097-0020	20' Aluminum Chute	each	1	78	N/A

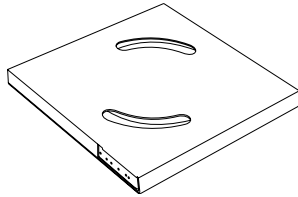
ROUND NAIL STAKE BLOCK



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
P200-1408	Round Nail Stake Block	each	1	2	N/A

Alternative block for the stake puller. Accommodates both 3/4" and 7/8" round nail stakes.

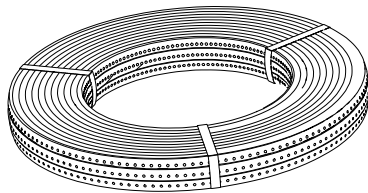
PUNCHED HOLE STRAPPING



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
071-0001	Punched Hole Strapping	each	1	17	120

Used to fabricate and reinforce unusual forming requirements on the job site. Our punched hole strapping is made from high-quality, .020 thick steel, 3/4" wide. No burr edge. The roll length is approximately 300 ft.

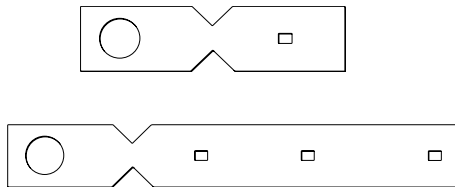
PUNCHED HOLE STRAPPING - 100 LB COILS



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
071-0002	Punched Hole Strapping	each	1	100	15

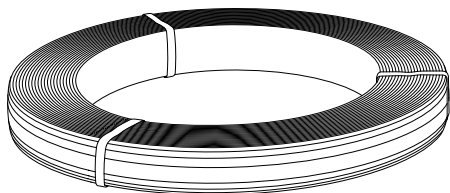
SCAFFOLD TIE

for block or masonry applications



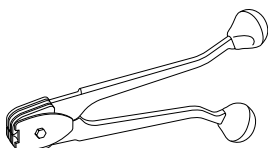
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
073-0005	5" Scaffold Tie	box	100	18	10,000
073-0009	9" Scaffold Tie	box	100	35	10,000

STRAPPING RIBBON WOUND PAINTED BLACK



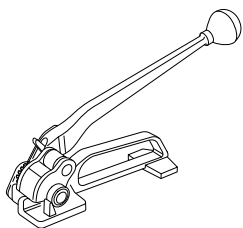
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
079-14035	1-1/4" Strapping .0354" THK Ribbon Wound Painted Black	rolls	1	can vary	16

CRIMPER



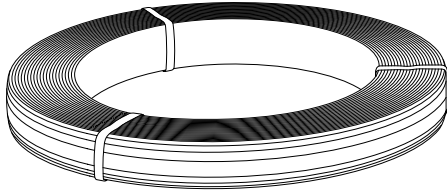
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
079-71621	1/2" Banding Crimper	each	1	3	N/A
079-71641	3/4" Banding Crimper	each	1	3	N/A
079-74041	1-1/4" Banding Crimper	each	1	3	N/A

TENSIONER



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
079-71611	1/2" and 3/4" Tensioner	each	1	7	N/A
079-74011	1-1/4" Tensioner	each	1	16	N/A

STRAPPING OSCILLATE WOUND PAINTED BLACK



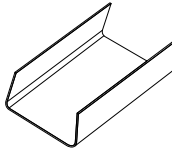
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
079-21623	1/2" Strapping .0236" THK Oscillate Wound Painted Black	rolls	1	100	16

■ Approximate length is 2688 LF

079-22420	3/4" Strapping .0236" THK Oscillate Wound Painted Black	rolls	1	100	16
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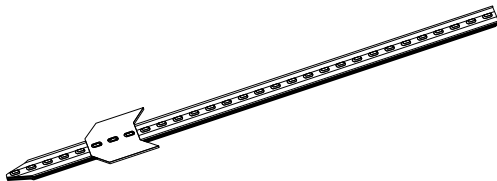
■ Approximate length is 1780 LF

METAL SEAL



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
079-41650	1/2" Open Seal	box	5,000	22	N/A
079-42450	3/4" Open Seal	box	5,000	66	N/A
079-54010	1-1/4" Semi Open Seal	box	1,000	53	N/A
079-52420	3/4" Semi Open Seal	box	2,000	26	N/A
079-61650	1/2" Closed Seal	box	5,000	44	N/A
079-62420	3/4" Closed Seal	box	2,000	61	N/A
079-64010	1-1/4" Closed Seal	box	1,000	61	N/A

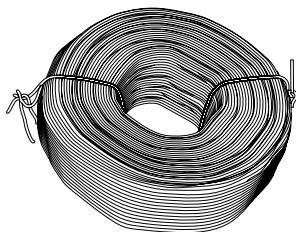
T-POST WITH CLIPS



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
098-0005	5ft T-post	each	1	6.2	100
098-0006	6ft T-post	each	1	7.5	100

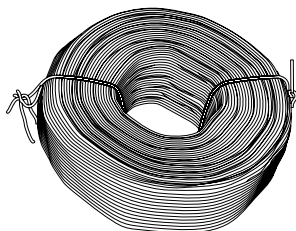
16-GAUGE REBAR TIE WIRE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
080-0001	Rebar Tie Wire (20/box)	box	1	70	24
080-2201	Epoxy Rebar Tie Wire (20/box)	box	1	75	24



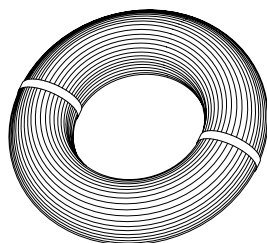
16-1/2 GAUGE REBAR TIE WIRE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
080-3001	16-1/2 Gauge Rebar Tie Wire (20/box)	box	1	72	24



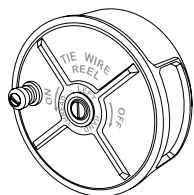
9-GAUGE REBAR TIE WIRE

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
082-00905	9-Gauge Rebar Tie Wire 50# Roll	ea	1	50	20
082-00910	9-Gauge Rebar Tie Wire 100# Roll	ea	1	100	10

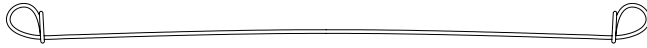
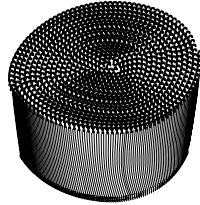


WIRE REEL

PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
182-1001	Aluminum Wire Reel	each	1	2	N/A

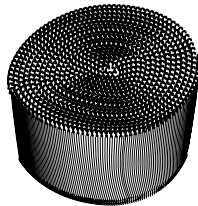


16-GAUGE BLACK ANNEALED BAR TIES



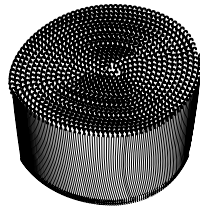
PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
078-1504	4" Bar Tie (5-1000/bdle)	bag	1	25	45
078-1505	5" Bar Tie (5-1000/bdle)	bag	1	34	63
078-1506	6" Bar Tie (5-1000/bdle)	bag	1	38	54
078-1507	7" Bar Tie (5-1000/bdle)	bag	1	43	45
078-1508	8" Bar Tie (5-1000/bdle)	bag	1	48	36
078-1509	9" Bar Tie (5-1000/bdle)	bag	1	49	24
078-1510	10" Bar Tie (5-1000/bdle)	bag	1	51	24

16-GAUGE EPOXY COATED ANNEALED BAR TIES



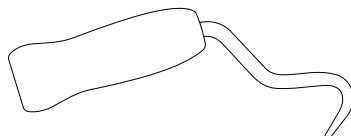
PART #	DESCRIPTION	UNIT	SOLD AS	WGT.	SKID QTY.
078-2105	5" Epoxy Coated Bar Tie (5-1000/bdle)	bag	1	39	30
078-2106	6" Epoxy Coated Bar Tie (5-1000/bdle)	bag	1	43	24
078-2107	7" Epoxy Coated Bar Tie (5-1000/bdle)	bag	1	46	25
078-2108	8" Epoxy Coated Bar Tie (5-1000/bdle)	bag	1	50	24

16-1/2 GAUGE BLACK ANNEALED BAR TIES



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
078-50040	4" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	24	45
078-50045	4-1/2" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	26	54
078-50050	5" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	29	63
078-50055	5-1/2" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	31	58
078-50060	6" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	33	54
078-50065	6-1/2" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	35	50
078-50070	7" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	37	45
078-50080	8" Bar Tie 16-1/2 GA (5-1000/bdle)	bag	1	39	36

HAND TWIST TOOL for bar ties



PART #	DESCRIPTION	UNIT	SOLD AS	UNIT WGT.	SKID QTY.
200-6001	Hand Twist Tool	each	1	0.5	2,500

PREMIER

CONSTRUCTION CHEMICALS

EMI PREMIER CHEMICALS**EMI EDGE SEAL**

PART #	DESCRIPTION	PKG. SIZE	WGT.	SKID QTY.	SOLD AS
100-0004	EMI Edge Seal- 5 gal. Pail	5 gal.	45	36	1

A water-based, high solids, high performance coating formulated to seal and protect the edges of concrete plyform and other performance plywood from the damaging effects of moisture exposure.

- Coverage: 100 - 150 sq. ft. per gallon
- Protect from freezing

ELITE 2 FORM RELEASE

PART #	DESCRIPTION	PKG. SIZE	WEIGHT	SKID QTY.	SOLD AS
102-0005	Elite 2 - 5 gal. pail	5 gal.	41	36	1
102-0055	Elite 2 - 55 gal. drum	55 gal.	450	4	1
102-0001	Elite 2 - 275 gal. tote	275 gal.	2250	1	1

A light, clean, odorless, chemically reactive, architectural form release agent. VOC compliant and formulated for use with a wide variety of forming materials

- Coverage: 1200 - 2500 sq. ft. per gallon

ELITE 2 FORM RELEASE - CITRUS

PART #	DESCRIPTION	PKG. SIZE	WGT.	SKID QTY.	SOLD AS
102-3005	Elite 2 - Citrus - 5 gal. pail	5 gal.	41	36	1
102-3055	Elite 2 - Citrus - 55 gal. drum	55 gal.	450	4	1
102-3275	Elite 2 - Citrus - 275 gal. tote	275 gal.	2250	1	1

A light, clean, chemically reactive, architectural form release agent. VOC compliant and formulated for use with a wide variety of forming materials. Complimented with a sweet citrus aroma.

- Coverage: 1200 - 2500 sq. ft. per gallon

DB ANCHOR LIFT SYSTEM

Economical and effective way to lift your concrete element. It's simple-to-use hardware makes installation easy for most any precast application.

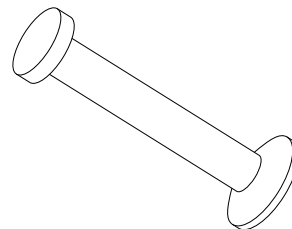
Capacities range from 1 to 25 tons



DB ANCHOR

The DB Anchor is manufactured from high-quality steel with an enlarged head, designed to mate with its corresponding lifting clutch. The anchor's head is clearly stamped with its (SWL) Safe Working Load (SWL) for easy identification. Anchors are tested at a specified sampling rate to failure and examined for possible tolerance deviations.

Note: Certain size anchors require a higher concrete psi strength to achieve a full shear cone value.

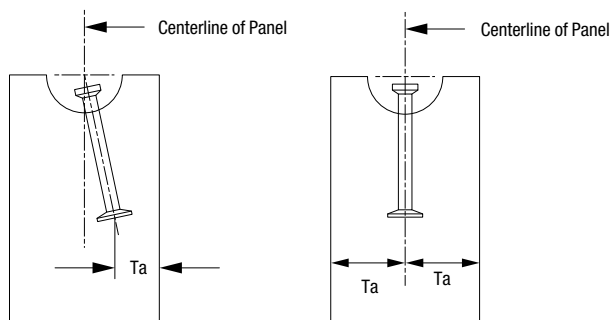


safety factor rating

4.0-to-1

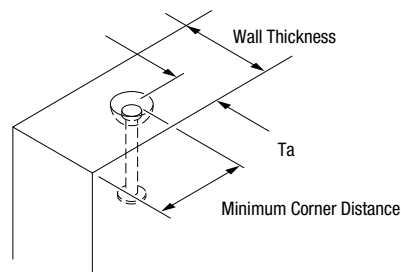
PART # PLAIN	PART # GALVANIZED	ANCHOR SIZE TON X LENGTH	SAFE WORKING LOAD (SWL)	CONCRETE STRENGTH (PSI)	MIN. EDGE DISTANCE	RECESS FORMER SIZE	LIFTER SIZE	WEIGHT (LBS.)
248-10232	249-10232	1T x 2-1/2	1,600	3,500	8"	1T	1-1.3T	0.15
248-20324	249-20324	2T X 3-3/8	2,900	3,500	10"	1.5-2T	1.5-2.5T	0.37
N/A	249-20448	2T X 4-3/4	4,000	3,500	12"	1.5-2T	1.5-2.5T	0.47
N/A	249-20648	2T X 6-3/4	4,000	1,700	13"	1.5-2T	1.5-2.5T	0.60
N/A	249-21100	2T X 11	4,000	1,700	14"	1.5-2T	1.5-2.5T	0.90
248-40348	249-40348	4T X 3-3/4	3,900	3,500	12"	4T	3-5T	0.90
248-40448	249-40448	4T X 4-3/4	5,570	3,500	14"	4T	3-5T	1.00
248-40532	249-40532	4T X 5-1/2	7,200	3,500	17"	4T	3-5T	1.10
N/A	249-40708	4T X 7-1/8	8,000	2,000	20"	4T	3-5T	1.35
N/A	249-40932	4T X 9-1/2	8,000	1,700	20"	4T	3-5T	1.70
N/A	249-80448	8T X 4-3/4	6,200	3,500	16"	8T	6-10T	2.50
248-80648	249-80648	8T X 6-3/4	10,900	3,500	21"	8T	6-10T	2.60
N/A	249-81000	8T X 10	16,000	3,500	21"	8T	6-10T	3.45
N/A	249-81324	8T X 13-3/8	16,000	1,700	23"	8T	6-10T	4.38
N/A	249-161000	16T X 10	23,400	3,500	24"	20T	12-20T	7.30
N/A	249-162000	16T X 20	32,000	3,500	31"	20T	12-20T	13.0

■ Tables are based on full shear cone values developed in 3,000 PSI normal weight concrete.

CORRECT POSITIONING OF DB LIFT ANCHOR

Note: If the anchor is in a 10" wall and the Ta measures 4", then the critical wall thickness becomes 8" and the safe working load must be reduced to a 8" wall. Proper care must be taken to prevent misalignment of the anchor to achieve full SWL value.

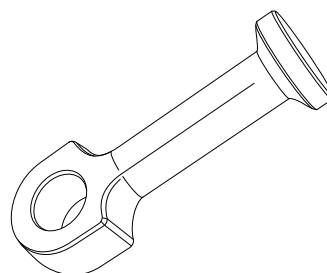
The DB Lift Anchor must be located a minimum distance from the edge of the concrete element (see table on page 57). Use a chair or tie the anchor to the reinforcement steel to assure proper positioning of the anchor.



ANCHOR (TON & LENGTH)	CRITICAL WALL THICKNESS	ACTUAL EDGE THICKNESS	TENSILE SAFE WORKING LOAD PER ANCHOR (LBS.)				
			6"	12"	18"	24"	30"
1 TON TENSILE CAPACITY							
1 Ton x 4-3/4"	2-1/2"	1-1/4"	1,000	1,200	1,300	1,300	1,300
	2-3/4"	1-3/8"	1,100	1,300	1,400	1,400	1,400
	3"	1-1/2"	1,200	1,400	1,600	1,600	1,600
	3-1/2"	1-3/4"	1,400	1,700	1,800	1,800	1,800
	4"	2"	1,600	1,900	2,000	2,000	2,000
	4-1/2"	2-1/4"	1,800	2,000	2,000	2,000	2,000
2 TON TENSILE CAPACITY							
2 Ton x 6-3/4"	3"	1-1/2"	1,700	1,800	2,000	2,200	2,200
	3-1/4"	1-5/8"	1,900	2,200	2,200	2,400	2,400
	3-1/2"	1-3/4"	2,000	2,200	2,400	2,600	2,600
	4"	2"	2,300	2,500	2,700	3,000	3,000
	5"	2-1/2"	2,900	3,100	3,400	3,700	3,700
	6"	3"	3,500	3,700	4,000	4,000	4,000
4 TON TENSILE CAPACITY							
4 Ton x 9-1/2"	3-3/4"	1-7/8"	2,900	3,200	3,400	3,500	3,800
	4"	2"	3,100	3,400	3,600	3,800	4,000
	5"	2-1/2"	3,800	4,300	4,600	4,800	5,100
	6"	3"	4,600	5,200	5,500	5,700	6,100
	7"	3-1/2"	5,400	6,000	6,400	6,700	7,200
	8"	4"	6,200	6,900	7,300	7,600	8,000
8 TON TENSILE CAPACITY							
8 Ton x 13-3/8"	5"	2-1/2"	4,500	5,500	5,900	6,500	7,000
	6"	3"	5,500	6,500	7,100	7,800	8,000
	7"	3-1/2"	6,500	7,600	8,300	9,100	10,000
	8"	4"	7,300	8,700	9,500	10,800	11,500
	10"	5"	9,100	11,000	12,000	13,500	14,000
	12"	6"	11,000	13,000	14,200	16,000	16,000
8 TON TENSILE CAPACITY							
8 Ton x 6-3/4"	4-3/4"	2-3/8"	3,000	3,300	3,600	3,700	3,700
	5"	2-1/2"	3,200	3,500	3,800	3,900	3,900
	6"	3"	3,800	4,200	4,600	4,700	4,700
	7"	3-1/2"	4,500	4,900	5,400	5,500	5,500
	8"	4"	5,100	5,600	6,100	6,200	6,500
	10"	5"	6,300	6,900	7,500	7,700	7,700
16 TON TENSILE CAPACITY							
16 Ton x 19-5/8"	6-1/2"	3-1/4"	7,000	9,000	10,500	11,500	12,200
	7"	3-1/2"	8,000	10,000	11,500	12,500	13,200
	8"	4"	9,200	11,200	13,000	14,400	15,100
	10"	5"	11,500	14,300	16,000	18,000	19,000
	12"	6"	14,000	17,300	20,000	21,500	22,800
	14"	7"	16,200	20,200	23,000	25,000	26,600

DB EYE ANCHOR

The DB Eye Anchor is manufactured from high-quality steel with an enlarged head, designed to mate with its corresponding lifting clutch. The anchor's head is clearly stamped with its Safe Working Load (SWL) for easy identification. The rebar tension bar in conjunction with the anchor allows the anchor to develop the safe working loads displayed in this table.

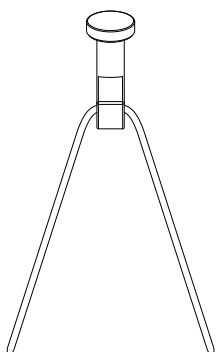


safety factor rating **4.0-to-1**

PART # PLAIN	PART # GALVANIZED	ANCHOR CAPACITY (TONS)	LENGTH	SWL TENSION W/V (LBS.)	MIN. PANEL THICKNESS	MIN. EDGE DISTANCE	MIN. ANCHOR SPACING	WEIGHT (LBS.)
251-0211	251-0201	2T	3-1/2"	4,000	3"	4"	8"	0.33
N/A	251-0401	4T	4-3/4"	8,000	4"	6"	12"	1.00

■ 3,000 psi normal weight concrete

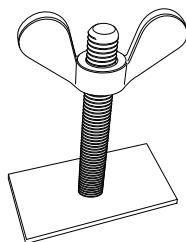
TENSION BAR CHART FOR EYE ANCHOR



ANCHOR CAPACITY (TONS)	REBAR SIZE	REBAR LENGTH	REBAR SPREAD AT BASE	REBAR RADIUS
1T	#3	36"	12"	3/4"
2T	#4	24"	6"	1-1/4"
4T	#5	24"	7"	2"
8T	#6	48"	9"	2-1/2"
16T	#8	86"	12"	3"
25T	#10	100"	16"	4"

BOLT & WING NUT ASSEMBLY

The Bolt & Wing Nut Assembly provides a permanent attachment to your formwork. The threaded stud is not removable, therefore considerations must be taken prior to pouring and stripping of concrete element.

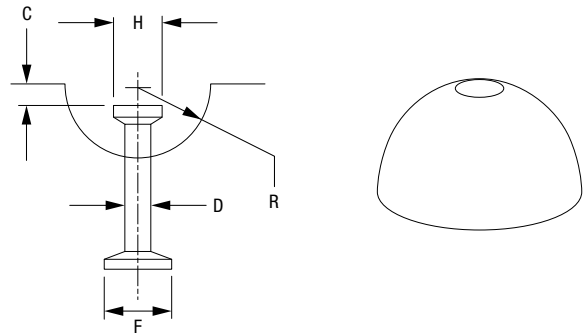


PART	CAPACITY (TONS)	DIAMETER	WEIGHT (LBS.)
283-0110	1T	5/16" NC	0.10
283-0210	2T	5/16" NC	0.15
283-0410	4T	5/16" NC	0.20
283-0810	8T	3/8" NC	0.30
283-1610	16T	1/2" NC	0.45

DB RECESS FORMER

The DB Recess Former is made from high-grade urethane rubber to provide improved tear and heat resistance. The reusable recess former provides ease of stripping in various applications.

Sizes range from 1, 2, 4, 8, and 16 ton configurations.



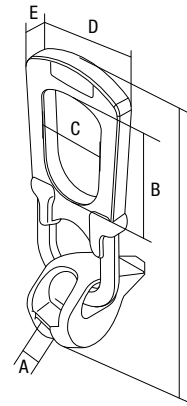
PART #	DB LIFT ANCHOR (TONS)	ANCHOR SHAFT DIA. (D)	ANCHOR HEAD DIA. (H)	ANCHOR FOOT DIA. (F)	COVER (C)	RECESS FORMER DIA.	RECESS FORMER HEIGHT	WEIGHT (LBS.)
292-0100	1T	3/8"	11/16"	1"	3/8"	2-3/8"	1-3/16"	0.15
292-0200	2T	9/16"	31/32"	1-3/8"	7/16"	3"	1-9/16"	0.30
292-0400	4T	3/4"	1-11/32"	2"	9/16"	3-3/4"	1-7/8"	0.38
292-0800	8T	1-1/8"	1-7/8"	2-3/4"	9/16"	4-3/4"	2-5/16"	0.42
292-1600	16T	1-1/2"	2-3/4"	3-7/8"	9/16"	6-3/8"	3-1/8"	0.49

DB LIFTING CLUTCH

The DB Lifting Clutch is manufactured with a "T" slot, which enables the clutch to be easily attached to the head of the anchor. The DB Lift Clutch is designed to rotate 360° giving you the flexibility to lift, rotate, turn and tilt while under a load.

User is responsible for regular inspections to determine excess wear, damage, overloading, misuse, modified units or other factors, which may affect the lifting capacity and performance.

Under no circumstances should the user modify, apply heat, weld, or grind any part of the lifting hardware.



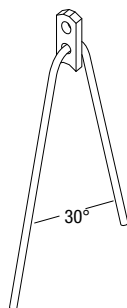
safety factor rating **5.0-to-1**

PART #	LIFTING BODY ID.	SAFE WORKING LOAD (TONS) (LBS.)		A	B	C	D	E	L	WEIGHT (LBS.)
240-0100	1-1.3T	1	2,000	0.43"	2.80"	1.85"	2.95"	0.47"	7.40"	2.21
240-0200	1.5-2.5T	2	4,000	0.63"	3.39"	2.32"	3.58"	0.55"	9.06"	3.45
240-0400	3.0-5.0T	4	8,000	0.83"	3.46"	2.76"	4.65"	0.63"	11.14"	7.73
240-0800	6.0-10.0T	8	16,000	1.18"	4.53"	3.46"	6.3"	0.98"	15.79"	20.8

RING LIFT SYSTEM

Ring Lift System is an effective way to strip, erect and handle your precast wall panel. The design of the anchor allows the load to be transferred in any direction.

capacity range

2T-10-10T**TENSION BAR
LOAD CHART**

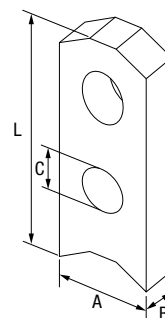
CONCRETE STRENGTH (PSI)	LOAD GROUP (TONS)	REBAR SIZE #	TOTAL TENSION BAR STRENGTH (L)
1,500	2-2.5	4	3'-0"
2,000	2-2.5	4	2'-0"
2,500	2-2.5	4	2'-8"
3,000	2-2.5	4	2'-6"
5,000	2-2.5	4	1'-8"
1,500	4-5	5	4'-0"
2,000	4-5	5	3'-6"
2,500	4-5	5	3'-0"
3,000	4-5	5	3'-0"
5,000	4-5	5	2'-2"
1,500	8-10	6	6'-0"
2,000	8-10	6	5'-6"
2,500	8-10	6	5'-0"
3,000	8-10	6	4'-6"
5,000	8-10	6	3'-3"

TWO HOLE ANCHOR

The two hole anchor is an effective way to strip and handle your concrete element from a tilt table. Its two-hole design allows for a tension bar to be added, increasing the capacity by transferring the load deep into the concrete element.

The two hole anchor is design to be used in thin wall panels, where other anchors can't be used in panels constructed with light weight concrete.

safety factor rating **4.0 to 1**



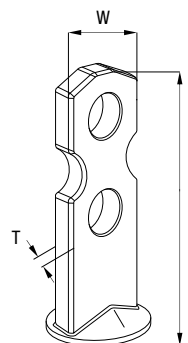
PART # PLAIN	PART # GALVANIZED	ANCHOR TONNAGE (TONS)	CLUTCH ID.	LENGTH (L)	WIDTH (A)	THICKNESS (B)	HOLE DIA. (C)	SWL 4:1 TENSION (LBS.)	WEIGHT (LBS.)
247-0204	247-0254	2T	2-2.5T	4"	1-1/4"	3/8"	3/4"	4,000	0.42
247-0404	247-0454	4T	4-5T	4"	1-1/2"	5/8"	11/16"	8,000	0.87
247-0807	247-0857	8T	8-10T	7"	2-1/2"	3/4"	1-3/16"	16,000	3.08

- Loads based on 4:1 safety factor and minimum capacity strength of 3,500 PSI concrete
- Additional sizes available

FOOT ANCHOR

The Foot Anchor's design allows the anchor to achieve the highest capacities with its unique foot and convex sides. An efficient way to strip and handle your concrete.

capacity range **2.5T-to-10T** safety factor rating **4.0-to-1**



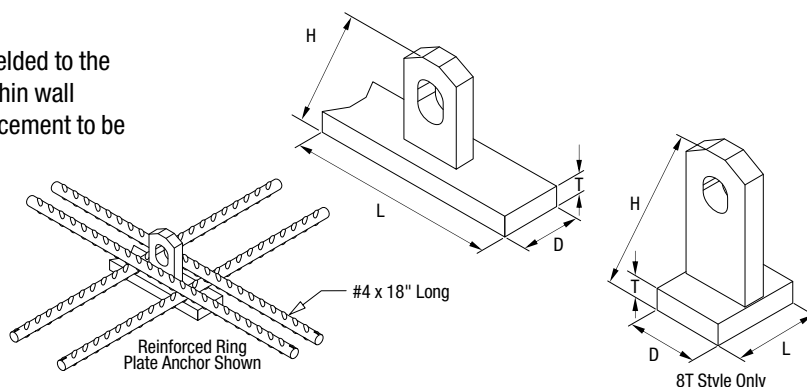
PART # PLAIN	PART # GALVANIZED	ANCHOR SIZE (TONS)	CLUTCH ID #	LENGTH (L)	WIDTH (W)	THICKNESS (T)	FOOT DIA.	SWL TENSION (LBS.)	WEIGHT (LBS.)
245-0203	245-0253	2.5T	2-2.5T	3-1/2"	1-5/16"	3/8"	1-1/2"	3,900	0.48
245-0205	245-0255	2.5T	2-2.5T	4-1/2"	1-5/16"	3/8"	1-1/2"	4,400	0.54
245-0206	245-0256	2.5T	2-2.5T	5-1/2"	1-5/16"	3/8"	1-1/2"	4,510	0.58
245-0503	245-0553	5T	4-5T	3-1/2"	1-13/16"	5/8"	2-1/4"	4,400	1.14
245-0504	245-0554	5T	4-5T	4-1/2"	1-13/16"	5/8"	2-1/4"	6,200	1.28
245-0505	245-0555	5T	4-5T	4-3/4"	1-13/16"	5/8"	2-1/4"	6,200	1.50
245-0506	245-0556	5T	4-5T	5-1/2"	1-13/16"	5/8"	2-1/4"	8,800	1.66
245-1006	245-1056	10T	8-10T	5-1/2"	2-5/8"	3/4"	2-7/8"	8,500	2.87
245-1007	245-1057	10T	8-10T	7"	2-5/8"	3/4"	2-7/8"	12,500	3.61

- For Tension Bar information refer to table "Tension Bar" on page 60
- Loads based on 4:1 safety factor and minimum capacity strength of 3,500 PSI concrete

RING LIFT PLATE ANCHOR

The Ring Lift Plate Anchor is designed with a plate welded to the bottom to provide high strength on low psi concrete thin wall elements. The plate area allows for additional reinforcement to be added increasing the anchor capacity.

capacity range	2.5T-to-8T
safety factor rating	4.0-to-1



PART # PLAIN	PART # GALVANIZE	ANCHOR	LENGTH (L)	HEIGHT (H)	WIDTH (D)	THICKNESS (T)	MIN. PANEL THICKNESS	MIN. EDGE THICKNESS	SWL UNREINFORCED (LBS.)	SWL REINFORCED (LBS.)	CLUTCH	WT (LBS.)	BOX QTY
246-0202	246-0252	2T	4"	2-1/4"	1-1/4"	3/8"	3-3/8"	4-1/2"	950	4,000	4-1/2	0.71	80
246-0404	246-0454	4T	3-3/8"	3-1/2"	1-1/2"	5/8"	4-5/8"	7"	4,700	7,000	4-5T	1.36	25
246-0401	246-0451	4T	4"	4-3/8"	1-1/2"	5/8"	5-5/8"	8"	4,725	8,000	4-5T	1.53	25
246-0806	246-0856	8T	3"	5-1/2"	2-1/2"	3/4"	6-7/8"	14"	10,850	11,750	8-10T	3.80	N/A

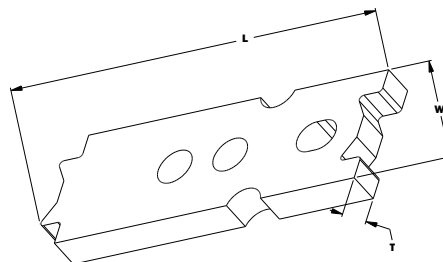
■ 4,000 PSI normal weight concrete

■ **Reinforcement:** The Plate Anchor has an allowable face shear loads that are equal to or greater than unreinforced face tension loads on anchors located in a concrete element with the proper edge distance.

TWO HOLE RING LIFT ERECTION ANCHOR

The Ring Lift Erection Anchor is designed to be used in conjunction with a tension bar in thin slab applications. Its convex sides allows for a shear bar to be added for a spall free performance.

capacity range	2T-to-10T	safety factor rating	4.0-to-1
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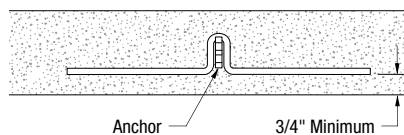


PART # PLAIN	PART # GALVANIZED	ANCHOR TONNAGE (TONS)	CLUTCH ID.	LENGTH (L)	WIDTH (W)	THICKNESS (T)	SWL 4:1 TENSION W/ BARS (LBS.)	WEIGHT (LBS.)	BOX QTY
244-0201	244-0202	2T	2-2.5T	4"	2"	3/4"	4,000	0.67	80
244-0401	244-0402	4T	4-5T	7"	2-1/2"	3/4"	8,000	2.80	20
244-0801	244-0802	8T	8-10T	7"	3-1/2"	3/4"	16,000	4.47	10
244-0803	244-0804	8T	8-10T	13-1/2"	3-1/2"	3/4"	16,000	8.97	N/A

■ Loads based on 4:1 safety factor and minimum concrete capacity strength of 3,500 PSI with a full shear cone

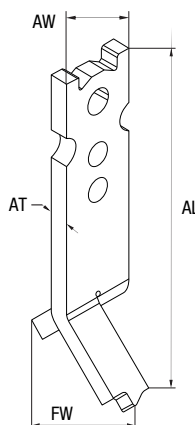
SHEAR BAR

safety factor rating **4.0-to-1**



PART #	ANCHOR TONNAGE (TONS)	CLUTCH ID.	SHEAR BAR HEIGHT	MINIMUM PANEL THICKNESS	WEIGHT (LBS.)
271-0201	2T	2-2.5T	2-1/2"	4"	0.98
271-0401	4T	4-5T	3-5/16"	5-1/2"	1.07
271-0801	8T	8-10T	4-15/16"	7-1/2"	1.23

SPLIT FOOT ERECTION ANCHOR

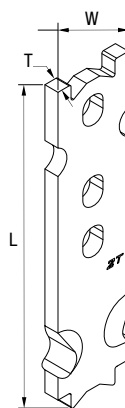


PART # GALVANIZED	ANCHOR TONNAGE (TONS)	CLUTCH ID.	LENGTH (L) (AL)	WIDTH (W) (AW)	THICKNESS (T) (AT)	FOOT WIDTH (FW)	WEIGHT (LBS.)	BOX QTY
252-0202	2T	2-2.5T	8"	2"	3/8"	2-3/4"	1.70	N/A
252-0402	4T	4-5T	10-3/4"	2-1/2"	5/8"	3-3/8"	4.50	N/A
252-0802	8T	8-10T	12-7/8"	3-3/4"	3/4"	5"	9.80	N/A

X-FOOT ERECTION ANCHOR

The X-Foot Erection Anchor is designed for edge lifting to vertical and shear rotation in thin walled concrete elements. Safe working loads can be achieved while edge lifting thin wall panels with low psi concrete by utilizing a shear bar. The convex sides of the anchor provides proper placement of the shear bar.

capacity range **2T to 8T** safety factor rating **4.0-to-1**



PART # GALVANIZED	ANCHOR TONNAGE (TONS)	CLUTCH ID.	LENGTH (L)	WIDTH (W)	THICKNESS (T)	SWL 4:1 TENSION	WEIGHT (LBS.)
243-0202	2T	2-2.5T	8"	2"	3/8"	4,000	1.59
243-0402	4T	4-5T	9-1/2"	2-1/2"	5/8"	8,000	4.20
243-0802	8T	8-10T	13-1/2"	3-1/2"	3/4"	16,000	9.30

■ Loads based on 4:1 safety factor and minimum concrete capacity strength of 3,500 PSI with a full shear cone

ERECTION ANCHOR WITH AND WITHOUT SHEAR BAR

While rotating, it's recommended the sling angle be perpendicular to the surface. If the panel is rotating on its edge, the load can usually be factored by 0.5. During the phase of the lift, the anchors are not bearing the full weight on the panel.

The rated loads and minimum panel thickness can be found in the accompanying table.

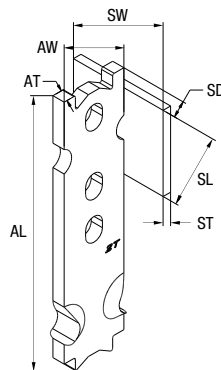
safety factor rating **4.0-to-1**

ANCHOR TONNAGE (TONS X LENGTH)	CLUTCH ID.	PANEL THICKNESS	SHEAR LOAD W/ SHEAR BAR (LBS.)	TENSION LOAD W/O TENSION BAR (LBS.)	TENSION LOAD WITH TENSION BAR (LBS.)
2T x 8"	2-2.5T	4"	1,490	3,190	4,000
2T x 8"	2-2.5T	5"	2,110	3,900	4,000
2T x 8"	2-2.5T	5-1/2"	2,130	4,000	4,000
2T x 8"	2-2.5T	6"	2,520	4,000	4,000
2T x 8"	2-2.5T	7"	2,870	4,000	4,000
2T x 8"	2-2.5T	8"	3,160	4,000	4,000
2T x 8"	2-2.5T	9"	3,420	4,000	4,000
2T x 8"	2-2.5T	10"	3,640	4,000	4,000
2T x 8"	2-2.5T	11"	3,840	4,000	4,000
2T x 8"	2-2.5T	12"	4,000	4,000	4,000
4T x 9-1/2"	4-5T	5-1/2"	2,670	4,970	8,000
4T x 9-1/2"	4-5T	6"	2,990	5,170	8,000
4T x 9-1/2"	4-5T	7"	3,170	6,030	8,000
4T x 9-1/2"	4-5T	8"	3,430	6,910	8,000
4T x 9-1/2"	4-5T	9"	3,650	7,750	8,000
4T x 9-1/2"	4-5T	10"	3,860	8,000	8,000
4T x 9-1/2"	4-5T	11"	3,930	8,000	8,000
4T x 9-1/2"	4-5T	12"	4,010	8,000	8,000
8T x 13-1/2"	8-10T	7-1/2"	4,010	7,220	16,000
8T x 13-1/2"	8-10T	8"	4,010	7,690	16,000
8T x 13-1/2"	8-10T	9"	4,120	8,640	16,000
8T x 13-1/2"	8-10T	10"	4,280	9,580	16,000
8T x 13-1/2"	8-10T	11"	4,420	10,610	16,000
8T x 13-1/2"	8-10T	12"	4,550	11,680	16,000

X-FOOT ERECTION ANCHOR WITH SHEAR PLATE

The X-Foot Erection Anchor w/ Shear Plate is designed for lifting from horizontal to vertical in thin wall concrete elements. The shear plate replaces the need of a shear bar, making installation quick and easy.

capacity range **2T to 8T** safety factor rating **4.0-to-1**



PART # PLAIN	PART # GALVANIZED	ANCHOR TONNAGE (TONS)	CLUTCH ID.	LENGTH (AL)	WIDTH (AW)	THICKNESS (AT)	S.P. LENGTH (SL)	S.P. WIDTH (SW)	S.P. DEPTH (SD)	S.P. THICKNESS (ST)	SWL TENSION	WEIGHT	BOX QTY
243-0231	243-0232	2T	2-2.5T	8"	2"	3/8"	3"	2 1/2"	3/4"	1/4"	4,000	1.59	25
243-0431	243-0432	4T	4-5T	9-1/2"	2-1/2"	5/8"	3"	2 1/2"	1 1/4"	3/8"	8,000	4.20	10
243-0831	243-0832	8T	8-10T	13-1/2"	3-1/2"	3/4"	3 1/2"	3"	1 5/8"	3/8"	16,000	9.30	5

■ Loads based on 4:1 safety factor and minimum concrete capacity strength of 3,500 PSI with a full shear cone

SHEAR PLATE CHART

ANCHOR (TONS)	CLUTCH ID.	WIDTH	DISTANCE FROM TOP OF ANCHOR TO PLATE	LENGTH	THICKNESS
2T	2-2.5T	2-1/2"	3/4"	3"	1/4"
4T	4-5T	2-1/2"	1-1/4"	3"	3/8"
8T	8-10T	3"	1-5/8"	3-1/2"	3/8"

X-FOOT ERECTION ANCHOR WITH SHEAR PLATE LOAD TABLE

While rotating, it's recommended the sling angle be perpendicular to the surface. If the panel is rotating on its edge, the load can be factored by 0.5. During the phase of the lift, the anchors are not bearing the full weight on the panel. Once the panel has been rotated to vertical, the tension lift is initiated. During the tension phase of the lift, the erection anchor will work like a two hole anchor. There are two sets of data with regards to the tension bars. If the higher loads are desired, a tension bar should be placed through the lower hole of the anchor.

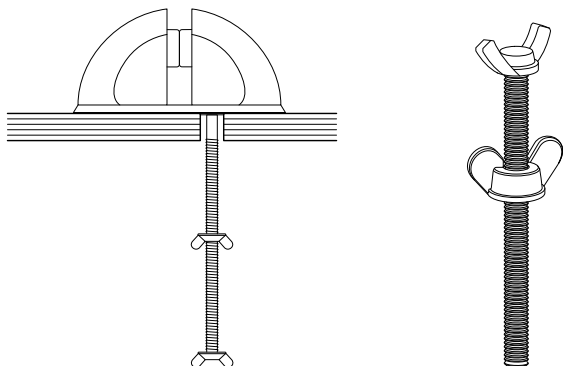
safety factor rating

4.0-to-1

ANCHOR (TONS X LENGTH)	CLUTCH ID.	PANEL THICKNESS	SHEAR LOAD W/ SHEAR PLATE (LBS.)	TENSION LOAD W/O TENSION BAR (LBS.)	TENSION LOAD W/ TENSION BAR (LBS.)
2T x 8"	2-2.5T	4"	1,490	3,190	4,000
2T x 8"	2-2.5T	5"	2,110	3,900	4,000
2T x 8"	2-2.5T	5-1/2"	2,130	4,000	4,000
2T x 8"	2-2.5T	6"	2,520	4,000	4,000
2T x 8"	2-2.5T	7"	2,870	4,000	4,000
2T x 8"	2-2.5T	8"	3,160	4,000	4,000
2T x 8"	2-2.5T	9"	3,420	4,000	4,000
2T x 8"	2-2.5T	10"	3,640	4,000	4,000
2T x 8"	2-2.5T	11"	3,840	4,000	4,000
2T x 8"	2-2.5T	12"	4,000	4,000	4,000
4T x 9-1/2"	4-5T	5-1/2"	2,670	4,970	8,000
4T x 9-1/2"	4-5T	6"	2,990	5,170	8,000
4T x 9-1/2"	4-5T	7"	3,170	6,030	8,000
4T x 9-1/2"	4-5T	8"	3,430	6,910	8,000
4T x 9-1/2"	4-5T	9"	3,650	7,750	8,000
4T x 9-1/2"	4-5T	10"	3,860	8,000	8,000
4T x 9-1/2"	4-5T	11"	3,930	8,000	8,000
4T x 9-1/2"	4-5T	12"	4,010	8,000	8,000
8T x 13-1/2"	8-10T	7-1/2"	4,010	7,220	16,000
8T x 13-1/2"	8-10T	8"	4,010	7,690	16,000
8T x 13-1/2"	8-10T	9"	4,120	8,640	16,000
8T x 13-1/2"	8-10T	10"	4,280	9,580	16,000
8T x 13-1/2"	8-10T	11"	4,420	10,610	16,000
8T x 13-1/2"	8-10T	12"	4,550	11,680	16,000

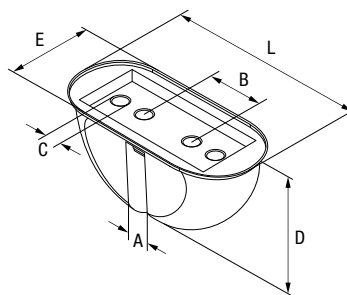
BOLT & WING NUT ASSEMBLY

PART #	SYSTEM (TONS)	OVERALL LENGTH	THREAD DIAMETER	WEIGHT (LBS.)
284-0411	1T-4T	6-3/8"	3/8"	0.195
284-0811	8T	6-3/8"	1/2"	0.450



RING LIFT REUSABLE RECESS FORMER

The Ring Lift Reusable Recess Former is manufactured with a durable urethane rubber to withstand many uses. The holding plate fastens the recess former and anchor to the formwork by either welding or bolting. The recess former is then attached by sliding it over the two protruding pins on the mounting plate. This allows for accurate installation and quick assembly.

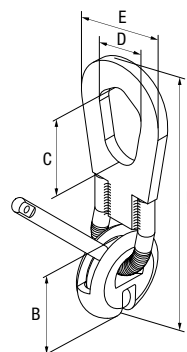


PART #	RING CLUTCH (TONS)	CLUTCH ID.	LENGTH (L)	HEIGHT (D)	WIDTH (E)	SLOT WIDTH (A)	HOLE DIST. (B)	HOLE DIA. (C)	WEIGHT (LBS.)
290-0200	2-2.5T	2.5T	3-3/4"	1-7/8"	1-3/4"	3/8"	1-1/16"	0.406"	0.20
290-0500	4-5T	5T	4-7/8"	2-1/4"	2-3/16"	5/8"	1-3/8"	0.406"	0.44
290-1000	8-10T	10T	6-1/2"	3-1/4"	3-1/2"	3/4"	1-7/8"	0.406"	1.25

RING LIFT CLUTCH

The Ring Lift Clutch is designed with a curved interlocking clutch body that rotates to lock over the protruding ring lift anchor.

safety factor rating **5.0-to-1**

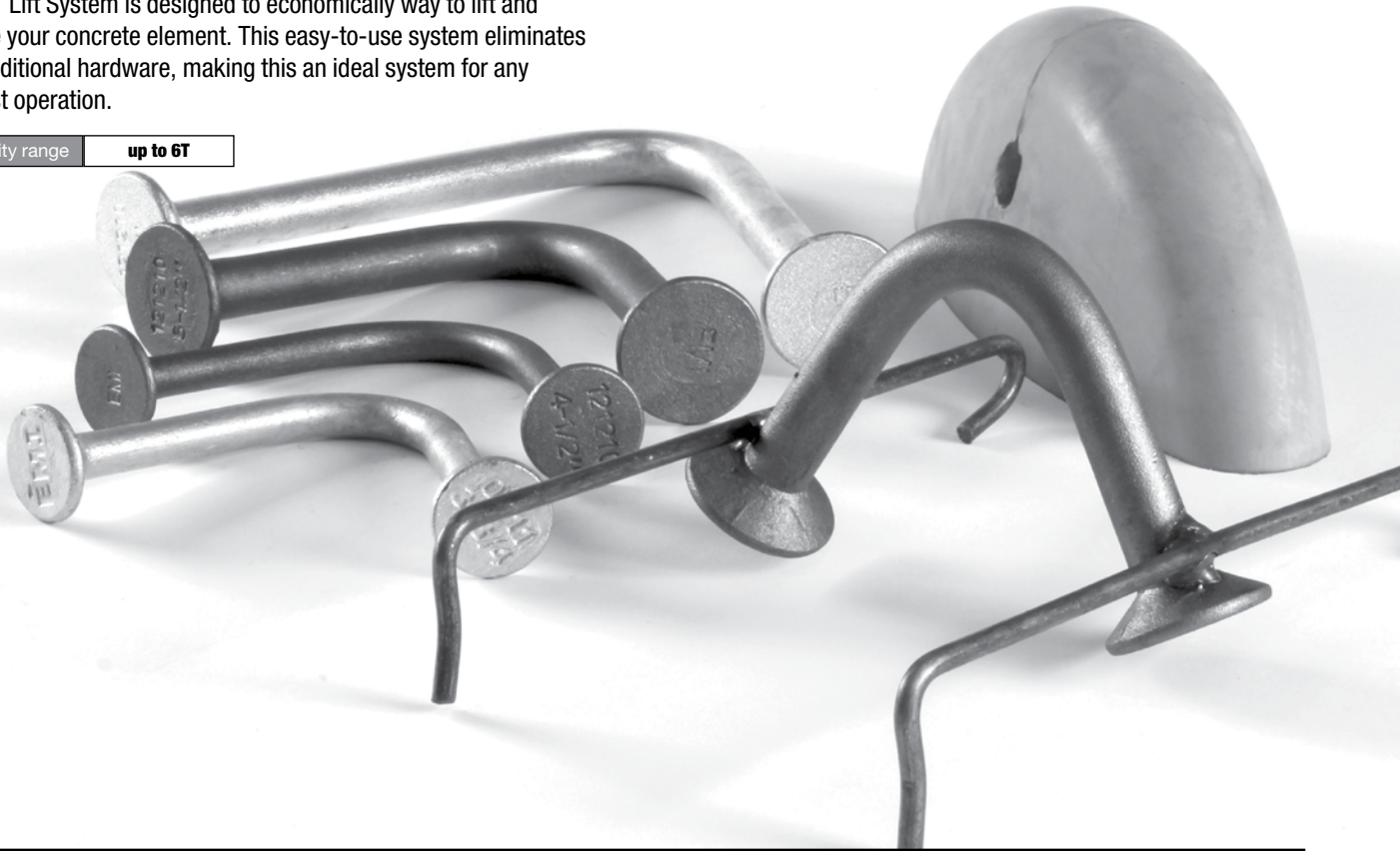


PART #	RING CLUTCH (TONS)	CLUTCH ID	L	B	C	D	E	WEIGHT (LBS.)
239-0200	2T	2-2.5T	10-15/16"	3-1/8"	3-1/16"	2-5/16"	3-3/4"	4.60
239-0400	4T	4-5T	12-15/16"	4-1/16"	3-7/8"	2-7/16"	4-9/16"	9.25
239-0800	8T	8-10T	17-3/8"	5-7/8"	5-1/4"	3-3/8"	6-5/16"	22.80

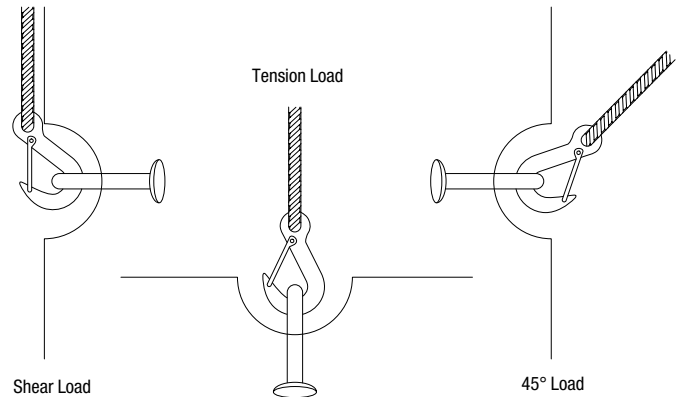
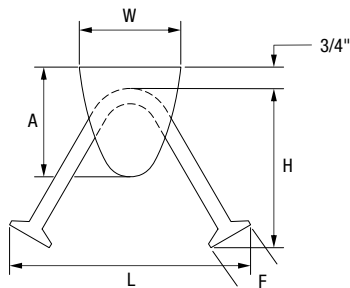
UT LIFT SYSTEM

The UT Lift System is designed to economically way to lift and handle your concrete element. This easy-to-use system eliminates any additional hardware, making this an ideal system for any precast operation.

capacity range up to 6T



UT LIFT ANCHOR

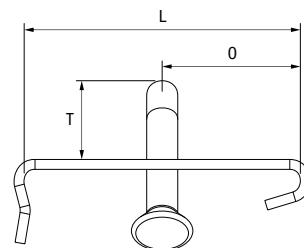
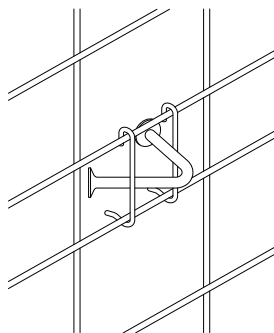


PART # PLAIN	PART # GALVANIZED	SLAB THICKNESS	H	L	D	F	WEIGHT (LBS.)	SHEAR LOAD (SWL) (LBS.)	45° LOAD (SWL) (LBS.)	TENSION LOAD (SWL) (LBS.)
241-10308	241-20308	4"	3-1/8"	5-9/32"	0.45"	1-3/8"	0.40	1,800	800	1,200
241-10348	241-20348	4-1/2"	3-3/4"	6"	0.45"	1-3/8"	0.45	6,500	1,900	3,000
241-10448	241-20448	5-1/2"	4-3/4"	7-1/8"	0.45"	1-3/8"	0.65	8,000	2,100	4,000
241-30308	241-40308	4"	3-1/8"	5-5/16"	0.67"	1-3/8"	0.83	2,500	2,200	2,000
241-30348	241-40348	4-1/2"	3-3/4"	6-13/16"	0.67"	1-3/8"	0.98	7,500	4,800	4,000
241-30448	241-40448	5-1/2"	4-3/4"	7-3/8"	0.67"	1-3/8"	1.31	10,000	7,200	6,000
241-30648	241-40648	8"	6-3/4"	10"	0.67"	1-3/8"	1.66	13,500	12,000	10,000

■ Loads based on 4:1 safety factor and minimum concrete capacity strength of 4,000 PSI with a full shear cone

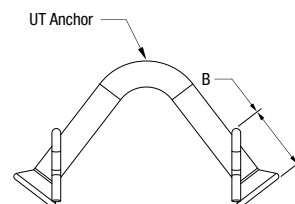
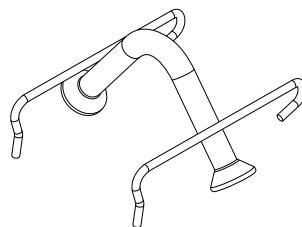
UT LIFT ANCHOR WITH CLIP

The UT Anchor with Clip is designed to eliminate bolting the recess former to the formwork. The specially designed clip allows the anchor to be attached to the formwork without the need for any attachment hardware. The location of the clip decides the amount of pressure the former presses against the core for jacket of the form.

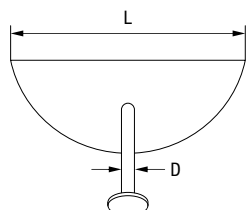


How to Order

- Specify the UT Anchor to use
- Specify Clip Length (Dimension "L")
- Specify Offset (Dimension "O"), if none is specified clip to be centered
- Specify height from top (dimension "T") or bottom (dimension "B") of UT Anchor
- Specify Coating - Plain or Galvanized
- Specify quantity



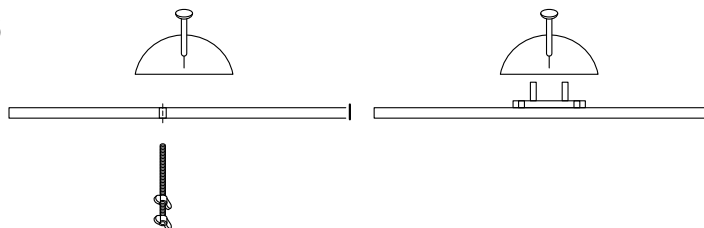
UT RECESS FORMER



PART #	LENGTH (L)	WIDTH (W)	HEIGHT (A)	ANCHOR DIA (D)	COLOR ID.	WEIGHT (LBS.)
294-4500	8"	3"	3-1/4"	0.45"	Orange	1.1
294-6700	8"	3"	3-1/4"	0.67"	Green	1.1
294-4510	10"	3"	3-1/4"	0.45"	Black	1.4
294-6710	10"	3"	3-1/4"	0.67"	Black	1.4

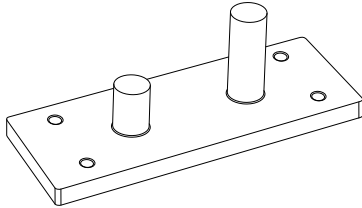
■ For columns A and W above, refer to UT LIFT ANCHOR diagram

UT LIFT ANCHOR & RECESS FORMER ATTACHMENTS



BOLT & WING NUT ASSEMBLY

PART #	SYSTEM (TONS)	OVERALL LENGTH	THREAD DIAMETER	WEIGHT (LBS.)
284-0411	1T-4T	6-3/8"	3/8"	0.195
284-0811	8T	6-3/8"	1/2"	0.450

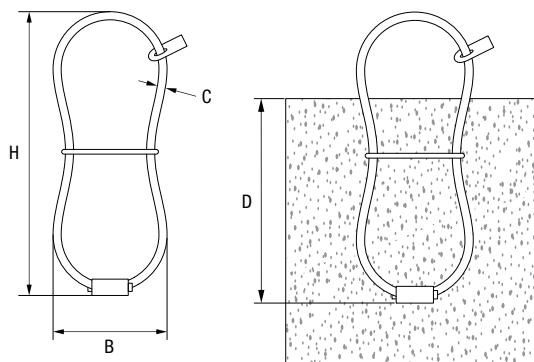
UT FORMER MOUNTING PLATE

PART #	LENGTH	WIDTH	PIN DIAMETER	WEIGHT (LBS.)
294-0002	1-1/4"	3-3/8"	5/16"	0.25

CABLE LOOP ANCHOR

The Cable Loop Anchor is an economical lifting system with a variety of applications. The cable loop anchor can be either wet set or tied off to the reinforcement steel prior to pouring with an embedment of 2/3 of the length of the anchor.

No special lifting hardware is required; any hook or clevis will be sufficient.

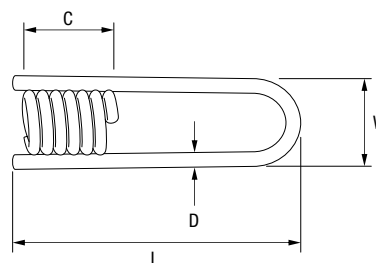
**CABLE LOOP ANCHOR**

PART #	DESCRIPTION	SWL (LBS.)	H	B	C	D	TAG COLOR	WEIGHT (LBS.)
236-0080	0.8T Cable Loop Anchor	1,600	8"	3.75"	0.236"	5.30"	White	0.22
236-0120	1.2T Cable Loop Anchor	2,400	9"	4"	0.276"	6"	Red	0.29
236-0160	1.6T Cable Loop Anchor	3,200	10"	5"	0.315"	6.70"	Purple	0.40
236-0200	2.0T Cable Loop Anchor	4,000	12"	5.25"	0.354"	8"	Green	0.78
236-0250	2.5T Cable Loop Anchor	5,000	13"	5.50"	0.394"	8.70"	Dark Gray	0.97
236-0380	3.8 Cable Loop Anchor	7,600	14.5"	6.50"	0.472"	9.70"	Yellow	1.24
236-0500	5T Cable Loop Anchor	10,000	15"	7"	0.551"	10"	Dark Blue	1.6
236-0630	6.3T Cable Loop Anchor	12,600	16.5"	9.25"	0.630"	11"	Light Blue	1.89
236-0800	8T Cable Loop Anchor	16,000	19"	9.25"	0.709"	12.7"	Light Gray	2.14
236-1200	12T Cable Loop Anchor	24,000	23"	11"	0.866"	15.3"	Black	2.12

STRAIGHT COIL LOOP INSERT

The Straight Coil Loop Insert is an efficient insert for lifting and handling precast elements.

safety factor rating **4.0-to-1**



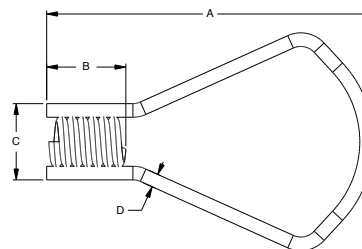
PART # PLAIN	PART # GALVANIZE	BOLT DIA.	LENGTH (L)	WIDTH (W)	THREAD (T)	COIL LENGTH (C)	WIRE DIA. (D) (LBS.)	SWL TENSION (LBS.)	WEIGHT
194-10403	194-50403	1/2"	3"	1-5/16"	1/2 - 6	1-3/16"	.225"	2,250	0.15
194-10404	194-50404	1/2"	4"	1-5/16"	1/2 - 6	1-3/16"	.225"	2,250	0.18
194-20406	194-60406	1/2"	6"	1-3/8"	1/2 - 6	1-3/16"	.305"	3,600	0.30
194-10604	194-50604	3/4"	4"	1-5/8"	3/4 - 4.5	1-5/8"	.305"	3,750	0.38
194-20606	194-60606	3/4"	6"	1-5/8"	3/4 - 4.5	1-7/8"	.375"	4,500	0.39
194-10804	194-50804	1"	4"	2-1/16"	1 - 3.5	2"	.375"	3,750	0.84
194-10804-32	194-50804-32	1"	4-1/2"	2-1/16"	1 - 3.5	2"	.375"	3,750	0.87
194-10805	194-50805	1"	5"	2-1/16"	1 - 3.5	2"	.375"	3,750	0.92
194-10806	194-50806	1"	6"	2-1/16"	1 - 3.5	2"	.375"	4,500	0.97
194-10808	194-50808	1"	8"	2-1/16"	1 - 3.5	2"	.375"	4,500	1.30
194-11008	194-51008	1-1/4"	8"	2-1/2"	1-1/4 - 3.5	2-1/2"	.440"	5,500	1.80

■ Minimum of 3,000 psi normal weight concrete

SINGLE FLARED COIL LOOP INSERT

The Single Flared Coil Loop Insert design allows for a higher load capacity than the straight coil insert, due to its flared loop configuration.

safety factor rating **4.0-to-1**



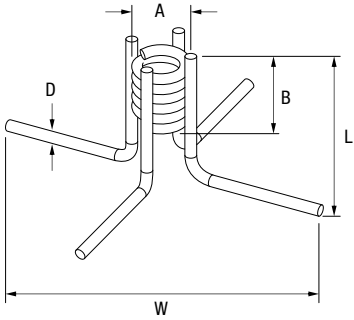
PART # PLAIN	PART # GALVANIZE	BOLT DIA.	LENGTH (A)	COIL LENGTH (B)	COIL WIDTH (C)	WIRE DIA. (D)	HEIGHT (E)	SWL TENSION (LBS.)	WEIGHT (LBS.)
198-10606	198-50606	3/4"	6"	1-3/4"	1-3/4"	.375"	3-1/2"	4,750	0.60
198-10609	198-50609	3/4"	9"	1-3/4"	1-3/4"	.375"	5-1/2"	4,750	0.79
198-10809	198-50809	1"	9"	2-1/16"	2"	.375"	5-1/2"	4,750	1.20
198-20809	198-60809	1"	9"	2-1/16"	2-1/2"	.440"	5-3/4"	8,000	1.80
198-10812	198-50812	1"	12"	2-1/16"	2"	.375"	5-1/2"	4,750	1.52
198-20812	198-60812	1"	12"	2-1/16"	2-1/2"	.440"	5-3/4"	8,000	1.77
198-11012	198-61012	1-1/4"	12"	2-5/16"	2-1/2"	.375"	5-3/4"	4,750	1.50
198-21012	198-61012	1-1/4"	12"	2-5/16"	2-1/2"	.440"	5-3/4"	8,000	1.85
198-11212	198-61212	1-1/2"	12"	2-5/16"	2-3/4"	.440"	5-3/4"	8,000	2.05

■ Minimum of 3,000 psi normal weight concrete

"L" LEG COIL INSERT

The Double Flared Coil Loop Insert four leg design makes it an ideal insert for thin slab applications.

safety factor rating	4.0-to-1
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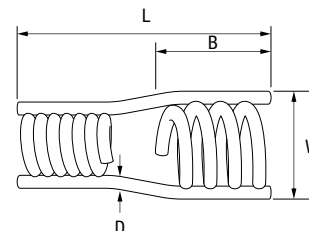
PART # PLAIN	PART # GALVANIZE	BOLT DIA.	INSERT LENGTH (L)	COIL DIA. (A)	COIL HEIGHT (B)	WIRE DIA. (D)	LEG LENGTH (W)	SWL TENSION (LBS.)	WEIGHT (LBS.)
195-0603	195-0613	3/4"	3"	1-3/4"	1-5/8"	.306"	7-1/8"	2,500	0.70
195-0804	195-0814	1"	4"	2-1/16"	1-7/8"	.306"	9-1/2"	3,500	1.00
195-1004	195-1014	1-1/4"	4"	2-1/16"	2-1/4"	.375"	9-3/4"	4,000	1.20
195-1204	195-1214	1-1/2"	4"	2-1/16"	2-1/2"	.375"	10"	4,000	1.40

■ Minimum of 3,000 psi normal weight concrete

OPEN COIL INSERT

The Open Coil Insert has a unique open coil design to enlarge the shear cone, which increases the load capacity.

safety factor rating **4.0-to-1**



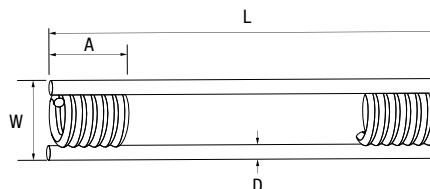
PART # PLAIN	PART # GALVANIZE	BOLT DIA.	INSERT LENGTH (L)	SAFE WORKING LOAD (LBS.) TENSION	SAFE WORKING LOAD (LBS.) SHEAR	NO. STRUTS	WIRE DIA. (D)	COIL WIDTH (W)	OPEN COIL LENGTH (B)	WEIGHT (LBS.)
196-0600	196-0610	3/4"	4-1/2"	4,250	4,250	2	.375"	2-1/8"	1-1/2"	0.55
196-0800	196-0810	1"	5-1/2"	6,250	6,250	2	.440"	2-1/2"	2-1/4"	1.12
196-0830	196-0840	1"	7-1/2"	10,000	12,000	4	.440"	2-3/4"	2-3/4"	2.15
196-1030	196-1040	1-1/4"	7-1/2"	12,000	12,000	4	.440"	3"	2-3/4"	3.90

■ Minimum of 3,000 psi normal weight concrete

2-STRUT COIL TIE

The 2-Strut Coil Tie is an effective way to lift and handle your thin wall concrete element.

safety factor rating **4.0-to-1**



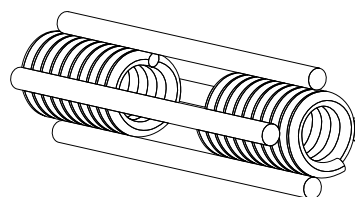
PART # PLAIN	PART # GALVANIZE	BOLT DIA.	INSERT LENGTH (L)	COIL LENGTH (A)	COIL WIDTH (W)	WIRE DIA. (D)	SWL TENSION (LBS.)	EDGE DIST.	WEIGHT (LBS.)
192-2206006	192-2206106	3/4"	6"	1-3/4"	1-5/8"	.375"	4,500	8"	0.91
192-2108008	192-2108108	1"	8"	2-1/16"	2-1/4"	.440"	6,000	8"	1.55
192-2110010	192-2110110	1-1/4"	10"	2-1/16"	2-1/2"	.440"	6,750	10"	1.93

■ Minimum of 3,000 psi normal weight concrete

4-STRUT COIL TIE

The 4-Strut Coil Tie can develop high capacities by varying the wire and coil diameter. These inserts are ideal for lifting and handling precast concrete elements.

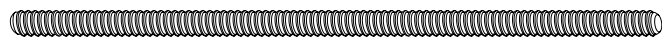
safety factor rating **4.0-to-1**



PART PLAIN	PART GALVANIZE	BOLT DIA.	INSERT LENGTH (L)	COIL LENGTH (A)	COIL WIDTH (W)	WIRE DIA. (D)	SWL TENSION (LBS.)	EDGE DIST.	WEIGHT (LBS.)
192-4108008	192-4108108	1"	8"	2-1/16"	2-1/16"	.375"	9,000	10"	1.42
192-4108012	192-4108112	1"	12"	2-1/16"	2-1/4"	.375"	9,000	15"	1.67
192-4110008	192-4110108	1-1/4"	8"	2-1/16"	2-1/2"	.440"	9,000	10"	2.25
192-4110012	192-4110112	1-1/4"	12"	2-1/16"	2-1/2"	.440"	13,500	15"	2.75

■ Minimum of 3,000 psi normal weight concrete

COIL ROD

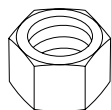


PART #	DESCRIPTION	UNIT	WGT. EA.	SOLD AS	UNIT WGT.	SKID QTY.
190-0116	1/2" Dia. x 12' Coil Rod	bundle	7.22	10	73	200
190-0124	3/4" Dia. x 12' Coil Rod	bundle	16.25	5	82	100
190-0132	1" Dia. x 12' Coil Rod	bundle	28.90	5	145	50
190-0140	1-1/4" Dia. x 12' Coil Rod	each	45.20	1	46	50

■ Cut sizes available

COIL NUT

The Coil Nuts are used for a variety of applications, from attachments to formwork.

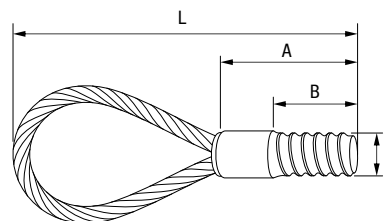


PART #	DESCRIPTION	WEIGHT EACH
190-0216	1/2" Coil Rod Nut (Std)	0.07
190-0220	5/8" Coil Rod Nut (Std)	0.11
190-0224	3/4" Coil Rod Nut (Std)	0.13
190-0228	7/8" Coil Rod Nut (Std)	0.30
190-0232	1" Coil Rod Nut (Std)	0.44
190-0240	1-1/4" Coil Rod Nut (Std)	0.72

COIL THREADED CABLE LIFTING LOOP

The Coil Threaded Cable Lifting Loops are designed to be used with coil Inserts.

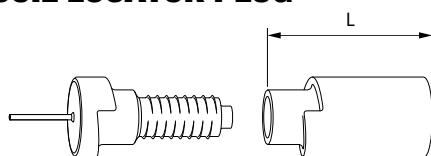
safety factor rating **5.0-to-1**



PART #	BOLT DIA. (D)	INSERT LENGTH (L)	COLLAR LENGTH (A)	THREAD LENGTH (B)	SWL TENSION (LBS.)	WEIGHT (LBS.)
190-1524	3/4"	10"	2-1/2"	1-3/4"	4,600	0.25

■ Minimum of 3,000 psi normal weight concrete

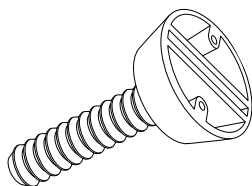
PLASTIC COIL LOCATOR PLUG



PART #	COIL DIA.	LENGTH (L)	WEIGHT (LBS.)
286-0601	3/4"	1-1/2"	0.02

COIL SETTING PLUGS

The Coil Setting Plugs are used to secure the coil insert to the formwork while keeping the threads clean from concrete during pouring operation.



PART #	SIZE	BOX QTY	WEIGHT (LBS.)
285-0401	1/2" x 2-1/2"	100	5
285-0601	3/4" x 3-3/4"	100	8
285-0801	1" x 5"	100	16

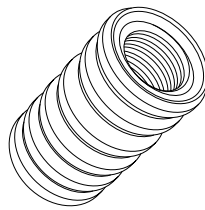
FERRULE INSERTS

Connections and attachments.



FERRULE INSERT

The Ferrule Insert is manufactured from solid bar stock 12L14 Cold drawn steel. The inserts have Unified National Course standard threads and captive back end. Minimum bolt engagement is the bolt diameter plus 1/8".

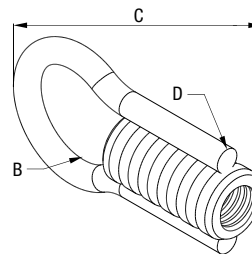


PART # PLAIN	BOLT DIA.	THREAD PITCH	MIN. BOLT ENGAGEMENT	LENGTH	FERRULE DIA.	WEIGHT (LBS.)	BOX QTY EA.
214-1200	3/8"	16	3/4"	1-1/4"	9/16"	0.05	100
214-1600	1/2"	13	1"	1-3/8"	11/16"	0.075	100
214-2000	5/8"	11	1-1/8"	1-5/8"	7/8"	0.15	100
214-2400	3/4"	10	1-1/8"	1-5/8"	1"	0.185	50
214-3200	1"	8	1-1/8"	1-5/8"	1-3/8"	0.39	50
214-3600	1-1/4"	7	2"	2-1/2"	1-11/16"	0.82	50

FERRULE LOOP INSERT

The Ferrule Loop Insert is commonly used to make structural connections and suspend various mechanical attachments. Available in plain and electro-plated.

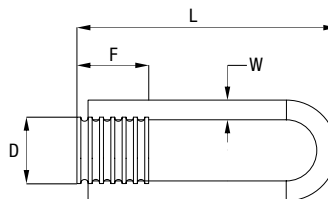
■ SWL based on 1/2" set-back from concrete surface. Minimum concrete strength of 3,000 psi normal weight concrete.



PART # PLAIN	PART # ELECTRO-PLATED	BOLT DIA.	SWL TENSION (LBS.)	LENGTH (C)	FERRULE LENGTH	FERRULE DIA.	INSIDE RADIUS (B)	WIRE DIA. (D)	WEIGHT (LBS.)	BOX QTY
216-1200	216-1210	3/8"	2,000	2-3/4"	1-1/4"	9/16"	9/16"	0.243"	0.13	100
216-1600	216-1610	1/2"	2,000	2-3/4"	1-3/8"	11/16"	9/16"	0.243"	0.38	100
216-2000	216-2010	5/8"	2,300	3-1/2"	1-5/8"	7/8"	13/16"	0.262"	0.33	100
216-2400	216-2410	3/4"	2,400	3-1/2"	1-5/8"	1"	13/16"	0.262"	0.37	50
216-2800	216-2810	7/8"	5,300	6"	1-5/8"	1-3/8"	1-3/8"	0.375"	0.60	50
216-3200	216-3210	1"	5,300	6"	1-5/8"	1-3/8"	1-3/8"	0.375"	0.58	50

FERRULE STRAIGHT LOOP INSERT

The Ferrule Straight Loop Insert is commonly used to make structural connections and suspend various mechanical attachments. Available in plain and electro-plated.



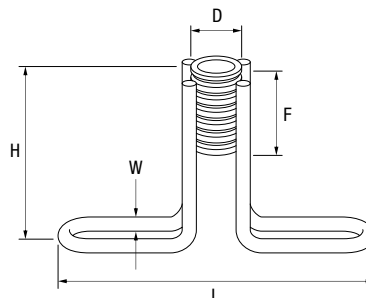
PART # PLAIN	PART # GALVANIZED	BOLT DIA.	LENGTH (L)	SWL TENSION (LBS.)	FERRULE DIA. (D)	FERRULE LENGTH (F)	WIRE DIA. (W)	MIN. EDGE DISTANCE	WEIGHT (LBS.)
213-1604	213-1614	1/2"	4-1/8"	3,000	11/16"	1-3/8"	0.225"	5"	0.25
213-1656	213-1666	1/2"	6-1/8"	4,000	11/16"	1-3/8"	0.306"	8"	0.38
213-2004	213-2014	5/8"	4-1/8"	3,000	7/8"	1-5/8"	0.225"	5"	0.35
213-2056	213-2066	5/8"	6-1/8"	5,000	7/8"	1-5/8"	0.375"	8"	0.48
213-2404	213-2414	3/4"	4-1/8"	3,000	1"	1-5/8"	0.225"	5"	0.54
213-2456	213-2466	3/4"	6-1/8"	5,000	1"	1-5/8"	0.375"	9"	0.67
213-3206	213-3216	1"	6-1/8"	5,000	1-3/8"	1-5/8"	0.375"	9"	0.75
213-3208	213-3218	1"	8-1/8"	6,000	1-3/8"	1-5/8"	0.375"	9"	1.02

■ SWL based on 1/2" set-back from concrete surface. Minimum concrete strength of 3,000 psi normal weight concrete. Safety Factor is approximately 3:1

■ NOTE: Not to be used for lifting.

THIN SLAB FERRULE INSERT

The Thin Slab Ferrule Insert is designed to be used in thin wall concrete elements where standard length inserts will not fit. Available in plain and electro-plated.

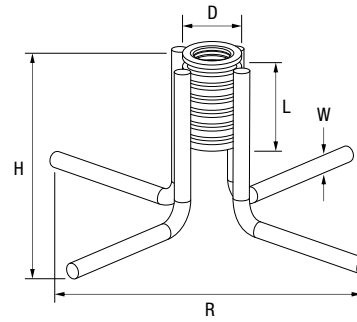


PART # PLAIN	PART # GALVANIZED	BOLT DIA.	HEIGHT (H)	LENGTH (L)	SWL TENSION (LBS.)	FERRULE DIA. (D)	FERRULE LENGTH (F)	WIRE DIA. (W)	MIN. EDGE DISTANCE	WEIGHT (LBS.)
219-1602	219-1612	1/2"	1-3/4"	4-1/2"	1,200	11/16"	1-3/8"	0.225"	5"	0.25
219-2003	219-2013	5/8"	2-7/16"	4-3/4"	2,500	7/8"	1-5/8"	0.306"	6"	0.44
219-2403	219-2413	3/4"	2-7/16"	4-7/8"	2,650	1"	1-5/8"	0.306"	6"	0.48
219-2404	219-2414	3/4"	3-5/8"	4-7/8"	4,500	1"	1-5/8"	0.306"	8"	0.67
219-3203	219-3213	1"	2-7/16"	5-1/8"	4,500	1-3/8"	1-5/8"	0.375"	6"	0.75
219-3204	219-3214	1"	3-5/8"	5-1/8"	4,500	1-3/8"	1-5/8"	0.375"	6"	0.75
219-3205	219-3215	1"	4-5/8"	5-1/8"	6,500	1-3/8"	1-5/8"	0.375"	9"	1.02

■ SWL based on 1/2" set-back from concrete surface. Minimum concrete strength of 3,000 psi normal weight concrete.

"L" LEG FERRULE INSERT

The "L" Leg Ferrule Insert is ideal for securing mechanical equipment or connecting thin wall concrete elements. Available in plain and electro-plated.

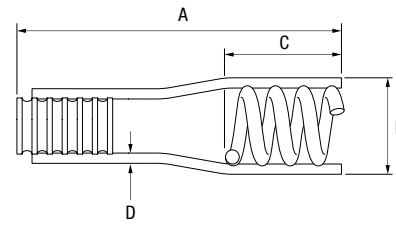


PART # PLAIN	PART # GALVANIZED	BOLT DIA.	HEIGHT (H)	SWL TENSION (LBS.)	FERRULE DIA. (D)	LEG LENGTH (R)	FERRULE LENGTH (L)	WIRE DIA. (W)	MIN. EDGE DISTANCE	WEIGHT (LBS.)
222-2403	222-2413	3/4"	3-1/8"	3,500	1"	7"	1-5/8"	0.306"	7"	0.71
222-3104	222-3214	1"	4-1/8"	4,500	1-3/8"	9-1/2"	1-5/8"	0.306"	9"	0.99

■ SWL based on 1/2" set-back from concrete surface. Minimum concrete strength of 3,000 psi normal weight concrete.

OPEN FERRULE INSERT

The Open Ferrule Insert is ideal for various precast applications. The insert is constructed with UNC thread with an expanded coil, to increase the shear cone surface area, thus increasing the inserts load capacity.

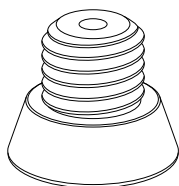


safety factor rating **4.0-to-1**

PART # PLAIN	PART # ELECTRO-PLATED	BOLT DIA.	INSERT LENGTH (A)	TENSION (LBS.)	SHEAR (LBS.)	NO. STRUTS	WIRE DIA. (D)	OPEN COIL DIA. (B)	OPEN COIL LENGTH (C)	WEIGHT (LBS.)
223-2420	223-2421	3/4"	4-5/8"	4,250	4,250	2	0.375"	2-1/8"	1-1/2"	0.55
223-3220	223-3221	1"	5-5/8"	6,250	6,250	2	0.440"	2-1/2"	2-1/4"	1.17
223-3240	223-3241	1"	7-5/8"	10,000	12,000	4	0.440"	2-3/4"	2-3/4"	2.25
223-4040	223-4041	1-1/4"	7-5/8"	12,000	12,000	4	0.440"	3"	2-3/4"	3.15
223-4060	223-4061	1-1/4"	9-5/8"	16,000	16,250	6	0.440"	3"	3-5/8"	4.90

■ Minimum of 3,000 psi normal weight concrete

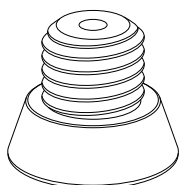
PLASTIC NC THREADED PLUG



PART #	BOLT DIA.	THREAD PITCH	WEIGHT EA.
282-0800	1/4"	20	.0005
282-1200	3/8"	16	.0007
282-1600	1/2"	13	.0008
282-2000	5/8"	11	0.01
282-2400	3/4"	10	0.02
282-2800	7/8"	9	0.02
282-3200	1"	8	0.03

The Plastic NC Threaded Plug is designed with a nail hole for easy attachment to formwork. The plug is threaded onto the opening of the insert to prevent concrete entering the threaded area during pour operation.

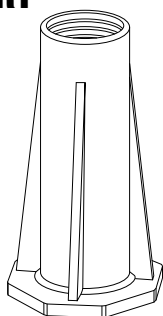
STEEL NC THREADED PLUG



PART #	BOLT DIA.	THREAD PITCH	WEIGHT EA.
281-0800	1/4"	20	0.02
281-1200	3/8"	16	0.03
281-1600	1/2"	13	0.05
281-2000	5/8"	11	0.06
281-2400	3/4"	10	0.10
281-2800	7/8"	9	0.13
281-3200	1"	8	0.23

The Steel NC Threaded Plug is similar to the plastic insert, designed with a nail hole for easy attachment to formwork.

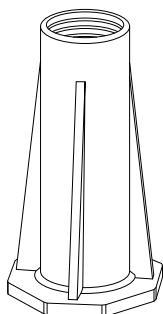
PLASTIC NC THREAD INSERT



PART #	BOLT DIA.	INSERT LENGTH	SWL TENSION	WEIGHT EA.
289-1200	3/8"	1"	1,200	0.01
289-1600	1/2"	2-1/2"	2,500	0.03
289-2000	5/8"	3"	3,000	0.04
289-2400	3/4"	3"	3,300	0.09

The Plastic Threaded Insert's designed foot creates a large shear cone in thin wall concrete elements.

STEEL NC THREAD INSERT

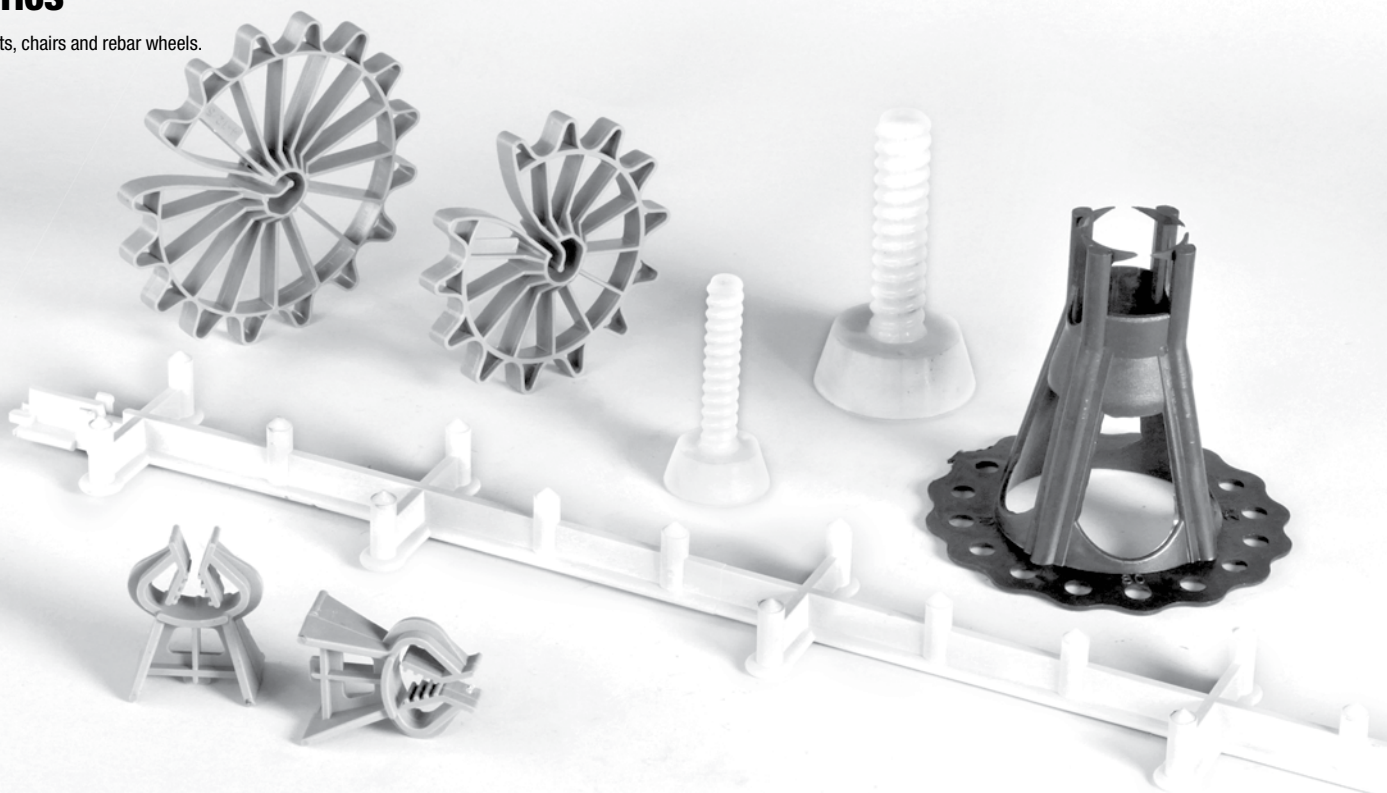


PART #	BOLT DIA.	INSERT LENGTH	SWL TENSION	WEIGHT EA.
288-0801	1/4"	1-1/2"	750	0.04
288-1201	3/8"	1"	1,200	0.05
288-1202	3/8"	1-3/8"	1,400	0.06
288-1601	1/2"	1-1/2"	1,500	0.11
288-1602	1/2"	2-7/8"	3,000	0.28
288-2001	5/8"	1-11/16"	1,750	0.19
288-2002	5/8"	2-7/8"	3,000	0.34
288-2401	3/4"	1-11/16"	2,000	0.23
288-2402	3/4"	2-7/8"	3,500	0.30

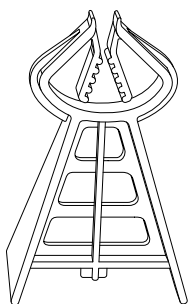
The Steel Threaded Insert is similar to the plastic threaded plug. Made from zinc alloy to resist rust and corrosion.

PLASTICS

Bar supports, chairs and rebar wheels.

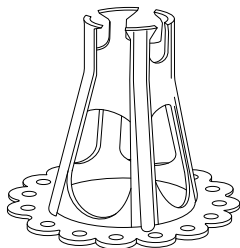


GP REBAR CLIP



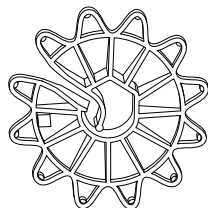
PART #	CONCRETE COVER	BAR SIZE	WEIGHT (LBS.)	BOX QTY (CTN.)
444-0480	3/4" Cover	#3 - #6	8.8	2,000
444-0001	1" Cover	#3 - #6	11.1	1,000
444-0320	1-1/2" Cover	#3 - #6	7.9	1,000
444-0002	2" Cover	#3 - #6	9.0	1,000
444-0322	2-1/2" Cover	#3 - #6	10.2	1,000
444-0003	3" Cover	#3 - #6	11.3	1,000

TMP CHAIR WITH PLATE



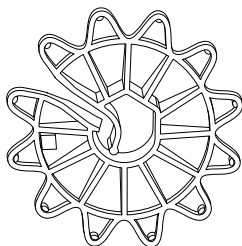
PART #	DESCRIPTION	CONCRETE COVER	BAR SIZE	WEIGHT (LBS./CTN.)	BOX QTY
444-1002	TMP 40/50	1-1/2 - 2" Cover	#3 - #8	15	500
444-1322	TMP 50/60	2 - 2-1/2" Cover	#3 - #8	18	300
444-1163	TMP70/80	2-3/4 - 3-1/4" Cover	#3 - #8	22	300
444-1004	TMP 90/100	3-1/2 - 4" Cover	#3 - #8	28	250

REBAR WHEELS - SMALL BAR



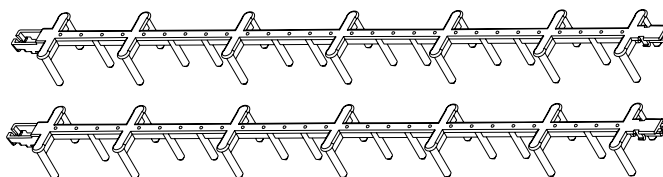
PART #	CONCRETE COVER	BAR SIZE	CTN. QTY
442-0480	3/4"	#2 - #4	1,000
442-0001	1"	#2 - #4	1,000
442-0321	1-1/2"	#3 - #5	500
442-0002	2"	#3 - #5	500

REBAR WHEELS - LARGE BAR



PART #	CONCRETE COVER	BAR SIZE	CTN. QTY
442-1480	3/4"	#3 - #6	1,000
442-1001	1"	#3 - #6	1,000
442-1321	1-1/2"	#3 - #6	500
442-1002	2"	#3 - #6	500
442-1322	2-1/2"	#3 - #6	300
442-1003	3"	#3 - #6	250

PLASTIC SLAB BOLSTER



PART #	SIZE	PCS/CTN	WEIGHT CTN.	PCS. SKID	WEIGHT SKID (LBS.)
454-1480	3/4 x 2.5'	176	60.0	2,640	720
454-1001	1 x 2.5'	176	52.5	2,640	630
454-1161	1-1/4 x 2.5'	160	50.5	2,400	606
454-1321	1-1/2 x 2.5'	128	42.5	1,920	510
454-1481	1-3/4 x 2.5'	112	39.5	1,680	474
454-1002	2 x 2.5'	112	39.0	1,680	468
454-1162	2-1/4 x 2.5'	96	36.0	1,440	432
454-1322	2-1/2 x 2.5'	80	32.5	1,200	390
454-1482	2-3/4 x 2.5'	80	29.0	1,200	348
454-1003	3 x 2.5'	64	26.0	960	312

SAFETY INFORMATION

EMI Elite components and accessories illustrated in this booklet have been designed with safety and performance in mind to help achieve a productive forming operation. All construction personnel should thoroughly familiarize themselves and comply with the applicable industry standards and safe practices established by the American Concrete Institute, American National Standards Institute, The Occupational Safety and Health Administration, and the Scaffolding, Shoring and Forming Institute. Tie spacings shown are for illustration purposes only; proper spacing must be determined for the individual job. Adhere to tie capacities. The maximum allowable pour pressure for the system is 1000 psf.

- Inspect all equipment before using. Never use equipment which appears damaged.
- Be sure that all ties of the right length are used for a specific wall thickness. Intermixed tie lengths will allow for excessive pressure and possible tie failure.
- Never bend a tie to work around rebar. This can fracture the tie at the breakback point and reduce load capacity.
- Never beat on the end of a tie to force it through a tie slot. This could damage the breakback or loop weld and cause a failure. Replace any ties that are bent or compromised before pouring concrete.
- Walers must be used in order to hold forms in accurate alignment.
- Install and position form scaffold brackets or other equivalent means to permit worker access to areas requiring setting, pouring and stripping operations.
- Brace one side of forms securely against wind loads, impact of concrete placement and live load of personnel working on forms. Normal bracing is 6' to 10' on center horizontally and each vertical lift of forms.
- Before placing concrete, responsible person(s) should check both sides of the wall to make sure that all ties are in place and properly connected. Assure that all wedgebolts are maintained tight and secure in proper positions.
- Standard practices for placing concrete must be followed. Concrete should not be dropped without the use of an elephant trunk. Vibrating should be limited to 4' below top of concrete surface and not used to move the concrete laterally.
- Protective devices such as gloves, safety glasses and steel toe shoes should be worn during formwork.

NOTE: EMI Construction Products recommends the use of all safety equipment and apparel such as gloves, safety shoes, safety glasses and hard hats when erecting or dismantling Elite Forms.

SAFETY INFORMATION

Improper Use of Concrete Accessories Can Cause Severe Injury or Death

Follow the safety and proper installation information in this publication before using any of EMI Construction Products concrete accessories displayed herein. If you are uncertain about a product application, contact your local representative for clarification, prior to installation.

It is the responsibility of the user to evaluate the safe working load, safety factor and field conditions of all EMI products to ensure safety for all individuals involved.

EMI's products are intended to be used by a trained, qualified personal to insure proper application. Misuse or altering of products can result in serious injury or death. Any applications other than those shown in this publication should be approved by a certified engineer.

Worn Working Parts

All working parts in this publication are subject to wear, overload-ing, corrosion, alteration, etc., which may cause failure to the product. Therefore, regular inspection is required to ensure the products are in proper working order. The frequency of inspection is based on how often the product is being used and the environment in which it is used.

Welding Considerations

EMI can not guarantee any product that has been altered in any way after it has left our facility. Welding to castings can cause embrittlement, which will reduce the load capacity and greatly reduce the performance of the product.

Design Changes

EMI reserves the right to change product designs and or product safe working load ratings at any time without notice to users. Changes will only be made to improve the products performance and/or increase product safety.

Product Safety Factors

Safety factors are determined by a degree of risk involved and are established by the American Concrete Institute (ACI), Occupational Safety and Health Administration (OSHA) and American National Standards Institute (ANSI).

The safety factors in this table are specifically designed for the precast/prestress concrete industry.

SAFETY FACTOR	PRODUCT USE
5-to-1	Reusable Lifting Hardware
4-to-1	Inserts for Lifting and Handling
3-to-1	Permanent Connections
2-to-1	Tilt-Up Inserts for Lifting
1.5-to-1	Hold Down for Prestressing Strand

Products in this publication have applicable safety factor used to arrive at their safe working loads. The user is still responsible for carefully calculating and determining the actual loads of that specific product.

COATING AND FINISHES

Products manufactured by EMI Construction Products are offered in a variety of different finishes and corrosion protection to meet any of your needs.

Plain - Unprotected steel normally referred as “Black” will corrode when exposed to the environment.

Electro Plated - Is a process of applying a zinc coating, generally 0.0002 to 0.001 inch thick as a degree of corrosion protection to black steel. Corrosion protection will vary depending on the severity of the environment to which the product is being exposed to. EMI Construction Products electro-plated comply with the ASTM B-633 standard.

ASTM B-633 ELECTRO-PLATE COATING OF ZINC ON STEEL

SERVICE CONDITION	EXPOSURE	COATING THICKNESS
SC-4	Very Severe	0.0010 in
SC-3	Severe	0.0005 in
SC-2	Moderate	0.0003 in
SC-1	Mild	0.0002 in

Hot-Dip Galvanize - Semi-bright to a dull finish, much heavier coating than electro-plating process. Hot-Dip Galvanizing offers a higher degree of corrosion protection, but is not suitable for threaded products or tight fitting items. EMI Construction Products hot-dip galvanize complies with ASTM A-123 or ASTM A-153 standard.

ASTM A-123 - Used for products that are fabricated from rolled, pressed, punched and forged steel shapes, plate, bar, wire or strips 0.125 inch thick and heavier. Zinc finish thickness will vary from 0.002 to 0.005 inch thick.

PRODUCT TYPE	PRODUCT THICKNESS	COATING THICKNESS
Wire	0.142" to 0.186" Dia.	0.002 in
Wire	0.187" to 0.249" Dia.	0.003 in
Wire	0.250" Dia. Or Larger	0.004 in
Steel or Plate	0.030" to 0.062" Thick	0.002 in
Steel or Plate	0.063" to 0.124" Thick	0.003 in
Steel or Plate	0.125" or Thickness	0.004 in

ASTM A-153 - A coating process for iron and steel products that utilizes a spinning technique to remove excess zinc. Bolts may be processed under this ASTM specification. Coating will vary in thickness from 0.002 to 0.006 inch depending on the “class” specified by the user.

PRODUCT TYPE	PRODUCT THICKNESS	COATING THICKNESS
Casting	A	0.004 in
Steel - 3/16" and Thicker	B1	0.004 in
Steel - 3/16" and Thicker	B2	0.003 in



WARNING: Products manufactured from high carbon steel that is electro-plated or galvanized must be properly heat treated in order to minimize hydrogen embrittlement.

Epoxy Coating - Normally a shiny coating for products requiring and effective corrosion protection in a hostile environment, such as salt water or high chemical contaminated areas. Material is applied to a finished product by an electrostatic or fluidized bed.

Stainless Steel - Stainless steel offers high corrosion resistance in any environment. Type 304 stainless steel is generally used, unless specified by user. The material is non-magnetic and can be painted without special preparation.



CAUTION: Corrosion may occur on exposed metal products when architectural precast members are etched or acid washed. The amount of corrosion will depend on the acidity of the wash or the type of acid being used.

Embrittlement Information

Carbon steels, cold worked steels and heat treated steels are susceptible to embrittlement in both electro-plating or hot-dip galvanizing. Any severely coil-worked steel must be stress-relieved from strain aging by baking prior to electro-plating or hot-dip galvanizing. Any steel with significant high strength or high carbon content is susceptible to hydrogen embrittlement during electro-plating or hot-dip galvanizing. It must be baked after the coating is applied to drive out excessive hydrogen.



WARNING: Products manufactured from high carbon steel that is electro-plated or hot-dip galvanized must be properly heat treated to minimize embrittlement. Failure to properly heat treat these products may compromise their safe working loads and result in a premature failure of the product.

Applicable ASTM Documents:

ASTM A-143 “Safe Guarding Against Embrittlement”
 ASTM A153 “Zinc Coating (Hot-Dip) of Iron and Steel Hardware”
 ASTM A-165 “Electro-Deposited Coating of Cadmium on Steel”
 ASTM B-633 “Electro-Deposited Coatings of Zinc”

Example Coating Specifications:

Electro-Plate -

“Electro-Plate it ASTM B-633 Specification, Service Condition SC-4
 Provide embrittlement relief, if necessary”

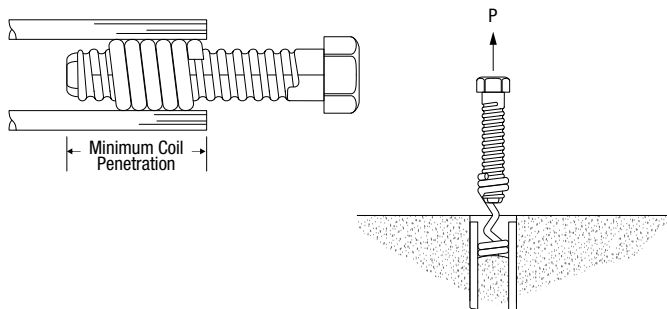
Hot-Dip Galvanize -

“Hot-Dip Galvanize to ASTM A-153, Class A
 Provide embrittlement relief, if necessary”

INSERT AND CONCRETE FAILURES

Coil Insert Failures/Minimum Coil Bolt Penetration

The most common type of insert failure is caused by the lack of sufficient bolt penetration through the coil of the insert. Under applied load, inadequate bolt penetration through the insert coil will cause the upper part of the coil to unwind and pull out of the insert. This is commonly referred to as the “corkscrew” effect.



Coil Bolt Considerations

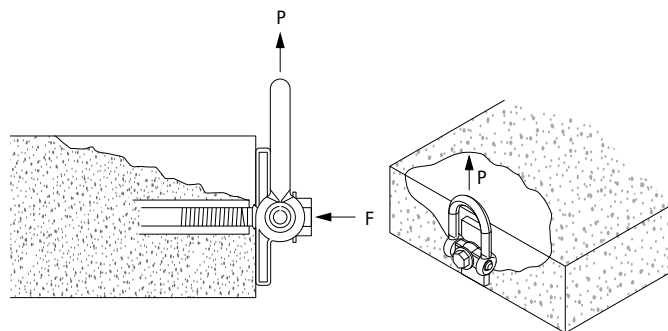
- 1) Failure to properly tighten a coil bolt can result in the inability of the coil bolt to fully penetrate the coil insert.
- 2) Excessive insert setback in the concrete can result in the inability of the coil bolt to fully penetrate the coil insert.
- 3) Worn threads on a coil bolt will render the bolt ineffective and will result in inadequate thread engagement.
- 4) A coil bolt of inadequate length to fully penetrate the insert coil will produce a corkscrew type of failure, which will render the coil insert unable to carry the required load.

IMPORTANT: In precast concrete plant operations, coil bolts should be periodically inspected and replaced if signs of wear or bending are present. Worn or bent coil bolts should be immediately discarded. Never use a worn or bent bolt for any purpose and never attempt to straighten a bent bolt.

Edge Lifting Failures

When an insert/anchor is located in the edge of a concrete panel for the purpose of lifting and handling, the concrete on the topside of the insert/anchor will carry the entire load unless special provisions are implemented. The upward force on the insert, from the bolt and compressive force from the lifting plate, combine to quickly overload the concrete on the topside of the insert/anchor. The loss of the concrete above the insert/anchor can result in the insert breaking and loss of the panel.

One means of increasing edge lifting capacity is to strengthen the concrete over the insert with shear bar or stirrups assemblies. This process will reinforce the concrete, preventing total loss of the concrete and allow the insert/anchor to remain in the panel. Always use the proper style and capacity insert/anchor for edge lifting. Never use a two strut insert. A properly selected insert/anchor will not break if the concrete above it fails. This will allow the panel to be positioned with only minor patching required.



Lifting Hardware Considerations

All lifting hardware is subject to wear, abuse, bending, overloading, alterations and corrosion. The user of these products must continually inspect the product to determine its usable condition. If the product shows any of the problems noted above or is not in good working condition, the product should be discarded or returned to EMI Construction Products for repair and/or replace. The frequency of inspections should be determined by how often the product is used, period of use and the environment in which it is used.

Example:

When a 1" Swivel Lift Plate (#237-0800) is being pulled at an angle producing 3000 lb. vertical load and 3000 lb. horizontal load, then the following applies:

$V = (2e/d) H = 1.0$ (3000 lb.) additional load on the insert/anchor due to the horizontal force component.

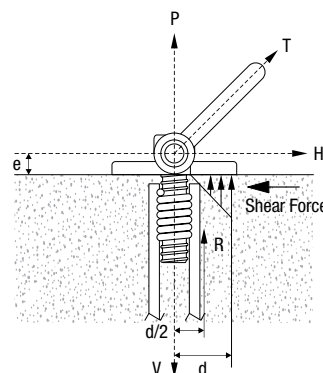
Total applied load = PT

PT = Vertical component load + $(2e/d) H$

PT = 3,000 lb. + 3,000 lb. = 6,000 lb. Total Tension Load

Must use an insert/anchor with a SWL (Safe Working Load) greater 6,000 lb.

PART#	BOLT/IN	(2E/D)
3/4" SLP	3/4"	.67
1" SLP	1"	.67



INSERT AND CONCRETE FAILURES

Swivel Lift Plates

When using swivel lift plates in conjunction with cast-in-place insert, a combination of forces with small lever arms become factors of concern. Refer to the sketch. Dimension “d” is an assumed constant subject to the location of “R”, the resultant force exerted by the reaction of the plate on the concrete.

Lifting Plates Considerations

If the swivel lift plate is loosely tightened, the location of “R” will be at the extreme edge/corner of the plate and “d” becomes plate width divided by 2.

If the swivel lift plate is properly tightened down with the attachment bolt, the generally accepted stress pattern on the plate will be triangular or trapezoidal.

During initial and low loads the “R” force moves from the toe of the plate towards the center of the plate. As the load increases, the plate attempts to flex. The maximum movement is most likely at the midpoint of the plate, between the bolt centerline and the toe of the plate. Taking a conservative approach, “d” divided by 2” is the theoretical location of the “R” force, thus resulting in a higher load to be added to the vertical component load.

Using basic equations, a pair of forces couples must be equal to zero:

$$H(e) = V(d/2) \text{ and } V = (2e/d)H$$

V = Vertical force on the insert

H = Horizontal force on the lifting plate

Lifting Plate Example Calculation

Values for $(2e/d) H$ —Reference Table on page 94

When a 1" diameter swivel lift plate is pulled at an angle producing 3,000 lb. vertical and 3,000 lb. horizontal, then the load application on the previous page would be as such.

$V = (2e/d) H = 1.0 \times 3,000 = 3,000$ lb. additional load on the insert due to the horizontal force component.

Total applied load PT

PT = Vertical component load + $(2e/d) H$

PT = 3,000 lb. + 3,000 lb. = 6,000 lb. Total Load

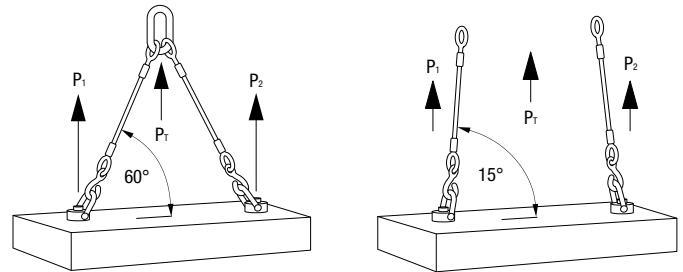
In this example, an insert with a safe working load greater than 6,000 lb. must be used.

Inclined Slings

When rigging is selected where the sling lines are inclined, it's important to measure the angle (β). The angle will cause an increase in the anchor loading due to the horizontal force components.

Reference the sketched examples:

1. The angle of 60° and from the table below, the load factor is 1.16
Therefore, P1 load = 1.16 x weight of the concrete element divided by 2.
2. The angle is 15° and from the table below, the load factor is 1.01.
Therefore, P1 load = 1.01 x weight of the concrete



SINGLE ANGLE β	LOAD FACTOR
120°	2.00
105°	1.64
90°	1.41
75°	1.26
60°	1.16
45°	1.08
30°	1.04
15°	1.01

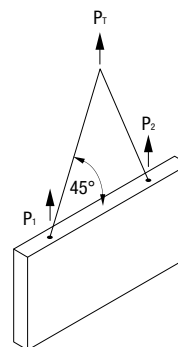
Example 1 - Two Part Cable/Chain Sling Calculations

Determine the anchor load, anchor size and concrete PSI required for a rectangular concrete beam 8" deep, 3' wide 12' long. The beam has form adhesion at the bottom surface only and a sling angle of 45° .

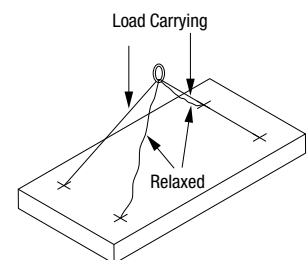
Concrete dead weight 8" / 8" X 3' X 12' X 150 lb. = 5,400 lb.
Form adhesion (Steel Form) 8" / 8" X 12' X 25 lb. = 300 lb.
Total Load (PT) = 5,700 lb.

Now apply the load factor for the 45° sling angle and realizing that $P_1 = P_2 = PT$, then $P_1 = 5,700/2 \times 1.08 = 3,078$ lb.

To adequately lift a handle, the example beam would require an anchor like the 4-ton two-hole anchor with tension bar rated at 8,000 lb. SWL in 3,000 psi concrete.



Example 1



Example 2

INSERT AND CONCRETE FAILURES

Example 2 - Four Slings Attached to a Slab Corners Calculations

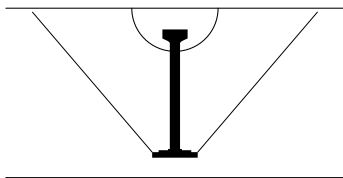
When four fixed length slings are used to lift and handle a concrete element, often one of the slings will be longer than the rest. This will force two of the embedded anchors to carry the total load and the other two anchors to do little more than keep the slab balanced.

Determine the anchor load, anchor size and concrete psi require for a slab 12' X 11' X 16" using a sling incline of 30° and having form adhesion at the bottom surface only.

Concrete dead weight	12' X 11' X 16"/12" X 150 lb.	= 26,400 lb.
Form adhesion (Steel Form)	12' X 11' X 20 lb.	= 2,640 lb.
Total Load (PT)		= 29,040 lb.

Concrete Shear Cone

The shear cone is the area of concrete around the anchor/insert that withstands the load stress during the lift. The anchor/insert develops its capacity from the size of the foot and length of the anchor. The diameter of the shear cone at the surface is about 6 times of the depth of the anchor.



The user should always check to assure enough concrete is available to provide a full shear cone and determine which is least, mechanical strength of the anchor/insert or available concrete shear cone. The lesser value will determine the safe working load.

Bolt Factors Affecting Safety

In precast plant operations, bolts should be periodically inspected and replaced as needed. Excessively worn bolts can cause several problems for the user including.

- Coil penetration failure
- Slippage of coil
- Poor fit in mating coil
- Brittle type bolt failure

Similarly, bent bolts should immediately be discarded. Never use a bent bolt for any reason. Never re-straighten a bent bolt.

Lifting Hardware Considerations

All lifting hardware such as, lifting plates, swivel lifting plates, RLE and DB lift hardware are subject to:

- Alterations
- Corrosion
- Welding
- Overloading
- Bending
- Field Abuse (Hammering, Prying)
- Excessive Wear

Users of these products must periodically inspected to determine if the product is in good working order. If not, product should be discarded or returned to EMI Construction Products for new parts or replacement. Inspection procedures should be determined by user's Quality Control.

TERMS & CONDITIONS OF SALE

All orders are accepted and sales are made according to the below EMI Construction Products a division of Edmar Manufacturing, Inc terms and conditions.

PRICING

This price list document supersedes any previous price lists. ALL ORDERS ACCEPTED BY EMI Construction Products. ARE SUBJECT TO CURRENT PRICES AT TIME OF SHIPMENT. Orders are subject to the approval of the Purchaser's credit and final acceptance in Holland, Michigan.

TAXES AND OTHER CHARGES

Any sales tax, use or similar tax or other charges made by the Federal, State or Municipal Authority, applicable to the sale or use of products will be added to the price and will be paid by the customer.

TERMS OF PAYMENT

All shipments are made on NET 30 DAYS terms. EMI reserves the right to require payment in full before the shipment is made. EMI reserves to the right to require payment before the manufacture of special order products.. Each shipment shall be deemed a separate and independent transaction and payment shall be made accordingly. PAST DUE ACCOUNTS ARE SUBJECT TO A 1-1/2% PER MONTH SERVICE CHARGE OR THE MAXIMUM ALLOWABLE LEGAL NOTE, WHICHEVER IS LOWER.

FREIGHT TERMS

All prices are F.O.B. Factory. Risk of loss passes to Purchaser upon delivery of products to an agent of Purchaser or common carrier. A \$10.00 charge will be added per package for each hazardous air shipment. EMI will allow drops to multiple locations. Drop charges and out of line miles will apply.

FREIGHT CARRIERS FOR YOUR ORDERS

Please specify freight companies for your orders. EMI cannot be responsible for freight rates, shipping schedules, damage claims, billing errors, freezability of any freight carrier company.

PRODUCT FREEZING

Products marked with an (F) are freezable and should be stored at temperatures above 32°F. During the winter season, some products may freeze during transportation. EMI cannot be responsible for damage caused by temperature in route.

NON-STANDARD (NS) ITEMS

Non-standard packaging, special colors, or variations other than those listed in the guide will be considered non-standard. Please contact Customer Service for more information. All non-standard items must be ordered in minimum batch sizes where applicable. We will make very effort to ship the exact amount, but EMI reserves the right to ship plus or minus 10% of the order. Non-standard produced products and materials cannot be returned for credit. All non-standard orders must be confirmed by written agreement prior to manufacture. All special (non-standard) colors not previously matched must be approved in writing by the customer prior to manufacturing the product.

EMI RETURN POLICY

EMI will not accept the return of product without prior written authorization. All returns must be freight prepaid. A return charge will be issued based on the billing price, less restocking, handling and other expenses incurred by EMI. Credit will be issued only on product that is received in original sealed containers, product that is undamaged and that is in good condition and can be re-sold. Credit will be issued according to the following:

- Up to 30 days from the date of purchase – full credit minus a 20% restocking charge
- 30 – 90 days from date of purchase – full credit minus a 25% restocking charge
- No returns will be accepted after 90 days from date of purchase

PACKAGING

Cost on standard EMI packaging is included in the price list. All pallets are triple wrapped.

SHORTAGE AND DAMAGED GOODS

Shortages or errors in billings must be reported in writing to EMI within five (5) days from receipt of shipment to secure adjustment. If shipments are received in a damaged condition or are short in the number of packages, the customer must have the carrier note this on the delivery receipt or paid freight bill. EMI will not process any claims without a signed delivery short receipt.

PRODUCT SHELF LIFE

All products when properly stored, unless otherwise noted, have a shelf life of one year.

CONSENT TO JURISDICTION

All transactions made pursuant here to shall be deemed to have been made and entered into in the State of Michigan. Any and all disputes arising directly or indirectly from such transactions shall be resolved in the courts of the State of Michigan, to the exclusion of any other court, and any resulting judgment may be enforced by any court having jurisdiction of such an action. All transactions shall be governed by and constructed in accordance with the laws of the State of Michigan.

REMEDY

All claims must be made within twelve (12) months from the date of delivery to the original user. Upon satisfactory proof of claim by Purchaser, EMI will, within a reasonable time, make the necessary repairs or replacements, or where foregoing are deemed by EMI to be commercially impractical, refund the purchase price upon return of the products. Repair or replacement provided under this remedy will be supplied by EMI free of charge, F.O.B. shipping point, freight prepaid and allowed at the lowest available commercial rate. Except for the following, EMI will not pay any incidental or consequential costs involved in repair or replacement such as field labor and equipment costs. Replacement or returns for credit will not be allowed unless authorized by EMI in writing.

COMPLETE AGREEMENT

The complete agreement between EMI and Purchaser is contained herein and no additional or different term or condition stated by Purchaser will be binding unless agreed to by EMI in writing. The failure of EMI to insist upon strict performance of any terms or conditions stated herein will not be considered a continuing waiver of any such term or condition or any of its rights, nor will it imply a course of performance between the parties.

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