



**DISTRIBUTOR CATALOG**

800.603.9965



**RELY ON**

**EMI**

**CONCRETE FORMING  
SYSTEMS AND  
ACCESSORIES**



**RESIDENTIAL  
COMMERCIAL  
PRECAST CONCRETE  
ACCESSORIES**







**RELY ON**

**EMI**

## FOR 40 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/Plywood forms, aluminum form ties and accessories, 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](http://www.emisupplies.com) or contact a sales representative at 1-800-603-9965 with your product questions. See page 86 for a list of Terms & Conditions.

**RESIDENTIAL, COMMERCIAL AND INDUSTRIAL**

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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. Long-lasting performance makes the Elite Series a better investment.

**Elite Series Features:**

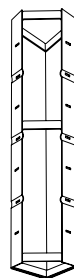
- DuraCoat red powder-coated finish for faster clean-up, greater weatherability. Additional colors may be available. Call for details.
- Full line of panel heights, filler widths, corners, angles and metal fillers for creating virtually any form layout quickly and efficiently
- Rugged 60,000 psi rolled 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. |
|-------------------|---------------------------|------|---------|-----------|-----------|
| <b>10' HEIGHT</b> |                           |      |         |           |           |
| 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       |

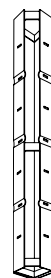
| PART #           | DESCRIPTION              | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|------------------|--------------------------|------|---------|-----------|-----------|
| <b>9' HEIGHT</b> |                          |      |         |           |           |
| 149-2409         | 24" x 9' Panel           | 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. |
|------------------|--------------------------|------|---------|-----------|-----------|
| <b>8' HEIGHT</b> |                          |      |         |           |           |
| 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        |
| <b>6' HEIGHT</b> |                          |      |         |           |           |
| 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        |

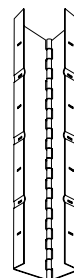
## Elite Inside Corner



6" x 6"  
standard



4" x 4"  
standard

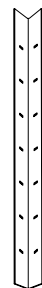


6" x 6"  
hinged

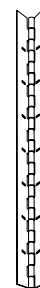


inside bay

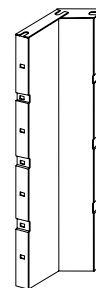
## Elite Outside Corner



standard



hinged

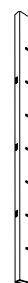


outside bay

## Elite Filler Angle



## Elite Metal Filler (All Steel)



## Elite Pilaster Form



| PART #           | DESCRIPTION              | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|------------------|--------------------------|------|---------|-----------|-----------|
| <b>5' HEIGHT</b> |                          |      |         |           |           |
| 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        |

|                  |                          |      |   |    |     |
|------------------|--------------------------|------|---|----|-----|
| <b>4' HEIGHT</b> |                          |      |   |    |     |
| 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. |
|------------------|--------------------------|------|---------|-----------|-----------|
| <b>3' HEIGHT</b> |                          |      |         |           |           |
| 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        |

|                  |                          |      |   |    |     |
|------------------|--------------------------|------|---|----|-----|
| <b>2' HEIGHT</b> |                          |      |   |    |     |
| 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. |
|------------------|-------------------------------|------|---------|-----------|-----------|
| <b>8' HEIGHT</b> |                               |      |         |           |           |
| 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       |
| <b>6' HEIGHT</b> |                               |      |         |           |           |
| 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. |
|------------------|-------------------------------|------|---------|-----------|-----------|
| <b>5' HEIGHT</b> |                               |      |         |           |           |
| 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       |

|                  |                               |      |   |    |     |
|------------------|-------------------------------|------|---|----|-----|
| <b>4' HEIGHT</b> |                               |      |   |    |     |
| 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 |

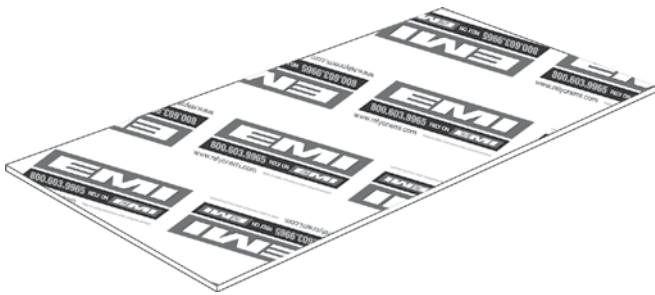
|                  |                               |      |   |    |     |
|------------------|-------------------------------|------|---|----|-----|
| <b>3' HEIGHT</b> |                               |      |   |    |     |
| 139-2403         | 24"x 3' Elite Pnl w/ Birch Wd | each | 1 | 36 | 40  |
| 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 |

|                  |                               |      |   |    |     |
|------------------|-------------------------------|------|---|----|-----|
| <b>2' HEIGHT</b> |                               |      |   |    |     |
| 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 QTY. |
|-----------|----------------|------|---------|-----------|-----------|
| 146-4896  | 48" x 96" HDO  | each | 1       | 52        | 69        |
| 146-48120 | 48" x 120" HDO | each | 1       | 68        | 60        |
| 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 QTY. |
|-----------|----------------|------|---------|-----------|-----------|
| 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

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



### Specs:

- 9-ply premium plywood
- 1/2" thick
- 220/220 Overlay - Good 2 Sides
- 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.

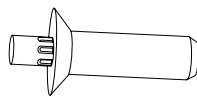
- Standard 220/220 Finnish PSF (Phenolic Saturated Film)
- Produced in a two-step lay-up manufacturing process that gives an exceptionally smooth uniform surface, virtually eliminating grain transfer more commonly found in a one-step process
- Engineered multi-ply lay-up, which provides exceptional panel 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       | 62        | 69        |
| 154-2496 | 24" x 96" Xact2 | each | 1       | 31        | 132       |
| 154-2472 | 24" x 72" Xact2 | each | 1       | 23        | 132       |
| 154-2460 | 24" x 60" Xact2 | each | 1       | 21        | 132       |
| 154-2448 | 24" x 48" Xact2 | each | 1       | 16        | 132       |
| 154-2436 | 24" x 36" Xact2 | each | 1       | 12        | 132       |
| 154-2296 | 22" x 96" Xact2 | each | 1       | 29        | 132       |
| 154-2272 | 22" x 72" Xact2 | each | 1       | 22        | 132       |
| 154-2260 | 22" x 60" Xact2 | each | 1       | 18        | 132       |
| 154-2248 | 22" x 48" Xact2 | each | 1       | 15        | 132       |
| 154-2236 | 22" x 36" Xact2 | each | 1       | 11        | 132       |
| 154-2096 | 20" x 96" Xact2 | each | 1       | 27        | 132       |
| 154-2072 | 20" x 72" Xact2 | each | 1       | 21        | 132       |
| 154-2060 | 20" x 60" Xact2 | each | 1       | 17        | 132       |
| 154-2048 | 20" x 48" Xact2 | each | 1       | 14        | 132       |
| 154-2036 | 20" x 36" Xact2 | each | 1       | 11        | 132       |
| 154-1896 | 18" x 96" Xact2 | each | 1       | 24        | 132       |
| 154-1872 | 18" x 72" Xact2 | each | 1       | 18        | 132       |
| 154-1860 | 18" x 60" Xact2 | each | 1       | 16        | 132       |
| 154-1848 | 18" x 48" Xact2 | each | 1       | 12        | 132       |
| 154-1836 | 18" x 36" Xact2 | each | 1       | 10        | 132       |
| 154-1696 | 16" x 96" Xact2 | each | 1       | 22        | 198       |
| 154-1672 | 16" x 72" Xact2 | each | 1       | 16        | 198       |
| 154-1660 | 16" x 60" Xact2 | each | 1       | 14        | 198       |
| 154-1648 | 16" x 48" Xact2 | each | 1       | 11        | 198       |
| 154-1636 | 16" x 36" Xact2 | each | 1       | 9         | 198       |
| 154-1496 | 14" x 96" Xact2 | each | 1       | 20        | 198       |
| 154-1472 | 14" x 72" Xact2 | each | 1       | 15        | 198       |
| 154-1460 | 14" x 60" Xact2 | each | 1       | 12        | 198       |
| 154-1448 | 14" x 48" Xact2 | each | 1       | 10        | 198       |
| 154-1436 | 14" x 36" Xact2 | each | 1       | 8         | 198       |
| 154-1296 | 12" x 96" Xact2 | each | 1       | 16        | 264       |
| 154-1272 | 12" x 72" Xact2 | each | 1       | 12        | 264       |

| PART #   | DESCRIPTION     | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-----------------|------|---------|-----------|-----------|
| 154-1260 | 12" x 60" Xact2 | each | 1       | 11        | 264       |
| 154-1248 | 12" x 48" Xact2 | each | 1       | 9         | 264       |
| 154-1236 | 12" x 36" Xact2 | each | 1       | 6         | 264       |
| 154-1096 | 10" x 96" Xact2 | each | 1       | 14        | 264       |
| 154-1072 | 10" x 72" Xact2 | each | 1       | 11        | 264       |
| 154-1060 | 10" x 60" Xact2 | each | 1       | 9         | 264       |
| 154-1048 | 10" x 48" Xact2 | each | 1       | 8         | 264       |
| 154-1036 | 10" x 36" Xact2 | each | 1       | 6         | 264       |
| 154-0896 | 8" x 96" Xact2  | each | 1       | 11        | 396       |
| 154-0872 | 8" x 72" Xact2  | each | 1       | 9         | 396       |
| 154-0860 | 8" x 60" Xact2  | each | 1       | 8         | 396       |
| 154-0848 | 8" x 48" Xact2  | each | 1       | 6         | 396       |
| 154-0836 | 8" x 36" Xact2  | each | 1       | 5         | 396       |
| 154-0696 | 6" x 96" Xact2  | each | 1       | 9         | 528       |
| 154-0672 | 6" x 72" Xact2  | each | 1       | 6         | 528       |
| 154-0660 | 6" x 60" Xact2  | each | 1       | 6         | 528       |
| 154-0648 | 6" x 48" Xact2  | each | 1       | 5         | 528       |
| 154-0636 | 6" x 36" Xact2  | each | 1       | 4         | 528       |
| 154-0596 | 5" x 96" Xact2  | each | 1       | 8         | 600       |
| 154-0572 | 5" x 72" Xact2  | each | 1       | 6         | 600       |
| 154-0560 | 5" x 60" Xact2  | each | 1       | 5         | 600       |
| 154-0548 | 5" x 48" Xact2  | each | 1       | 5         | 600       |
| 154-0536 | 5" x 36" Xact2  | each | 1       | 4         | 600       |
| 154-0496 | 4" x 96" Xact2  | each | 1       | 6         | 792       |
| 154-0472 | 4" x 72" Xact2  | each | 1       | 5         | 792       |
| 154-0460 | 4" x 60" Xact2  | each | 1       | 4         | 792       |
| 154-0448 | 4" x 48" Xact2  | each | 1       | 4         | 792       |
| 154-0436 | 4" x 36" Xact2  | each | 1       | 3         | 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        |

## DRIVE RIVET



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

■ Discounts available at 10,000 pieces

The EMI Drive 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.

## 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       |

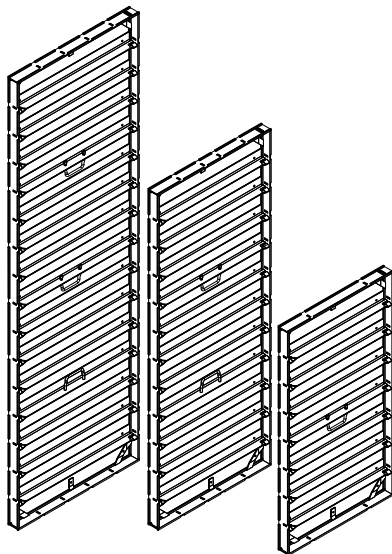
A water-based, high solids, high performance coating formulated to seal and protect the edges of concrete plyform and other performance plywood from the damaging effects of moisture exposure.

■ Coverage: 100 - 150 sq. ft. per gallon

■ Protect from freezing

## ELITE 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.



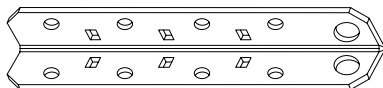
### Features:

- 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        |

■ Additional sizes available.

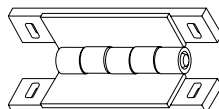
## COLUMN LIFTING CORNER



| 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.

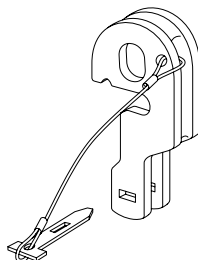
## COLUMN HINGE



| 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.

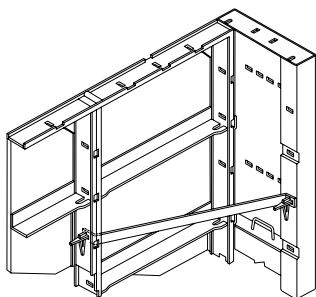
## DOUBLE DUTY LIFTING BRACKET



| 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).

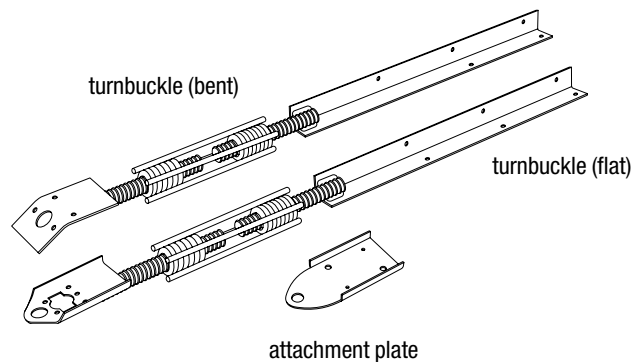
## ELITE PILASTER BRACE



| 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.

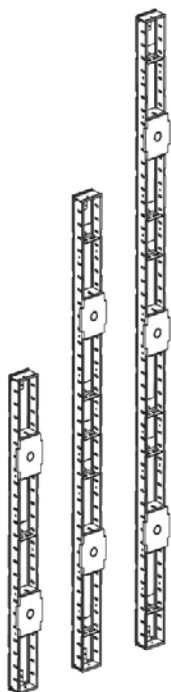
## TURNBUCKLE FORM ALIGNER



| 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       |

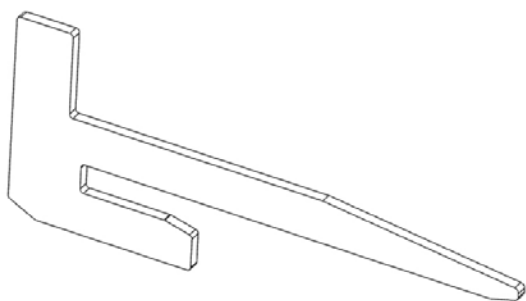
EMI Turnbuckles allow for 6 inches of adjustment. The Turnbuckle is attached with nails or screws to lumber. Anchor before final adjustments are made. The end of the turnbuckle contains a slot to accommodate a steel nail stake.



**GANG FILLERS**

| PART #   | DESCRIPTION             | UNIT | SOLD AS | UNIT WGT. |
|----------|-------------------------|------|---------|-----------|
| 053-0404 | 4" x 4' EMI Gang Filler | each | 1       | 30        |
| 053-0406 | 4" x 6' EMI Gang Filler | each | 1       | 42        |
| 053-0408 | 4" x 8' EMI Gang Filler | each | 1       | 54        |

Gang fillers are installed between forms and are used with taper ties and she bolts.

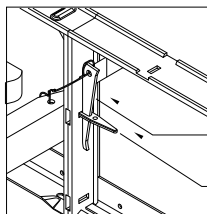
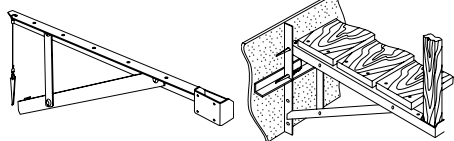
**GANG FILLER WEDGE**

| PART #   | DESCRIPTION       | UNIT | SOLD AS | UNIT WGT. |
|----------|-------------------|------|---------|-----------|
| 053-0001 | Gang Filler Wedge | each | 1       | .6        |

The Gang Filler Wedge is used with the EMI Gang Fillers to lock in the ties.

**SCAFFOLD BRACKET**

for steel/plywood forming system

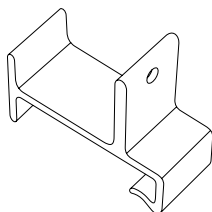


| PART #   | DESCRIPTION      | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------|------|---------|-----------|-----------|
| 055-0022 | Scaffold Bracket | each | 1       | 14        | 100       |

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.

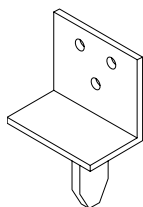
S-Wedge 054-2011  
must be used

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**

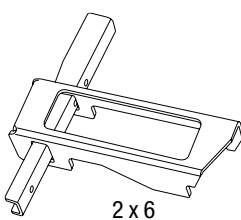
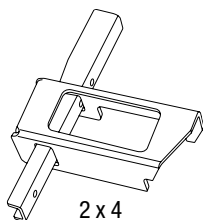
| PART #   | DESCRIPTION                  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------------------|------|---------|-----------|-----------|
| 051-2000 | EMI Steel/Plywood Ext. Brkt. | box  | 100     | 45        | N/A       |

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 EXTENSION BRACKET**

| PART #   | DESCRIPTION              | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------------------|------|---------|-----------|-----------|
| 051-2002 | 3/4" Plywood Ext Bracket | box  | 50      | 43        | N/A       |

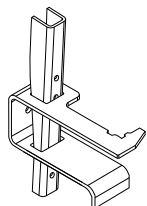
The 3/4" plywood extension bracket is used for extending height of forms. This bracket wedge bolts to the top of forms. Holes are provided for screws or nails to attach 3/4" plywood to the bracket. 3/4" plywood will end up flush with the face of the forms.

**STEEL/PLYWOOD WALER BRACKET**

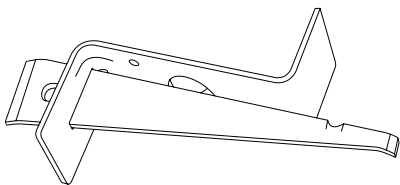
| PART #   | DESCRIPTION                     | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|---------------------------------|------|---------|-----------|-----------|
| 055-0204 | 2 x 4 Stl/Plywood Waler Brkt. * | box  | 25      | 50        | 500       |
| 055-0206 | 2 x 6 Stl/Plywood Waler Brkt. * | box  | 25      | 63        | 500       |

■ \* 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. | box  | 25      | 50        | 500       |

**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**

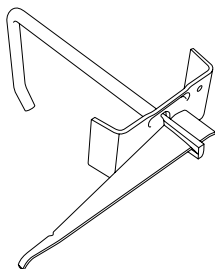
| PART #   | DESCRIPTION      | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------|------|---------|-----------|-----------|
| 055-1004 | 2 x 4 Waler Ties | box  | 100     | 13        | N/A       |
| 055-1006 | 2 x 6 Waler Ties | box  | 100     | 14        | N/A       |

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**

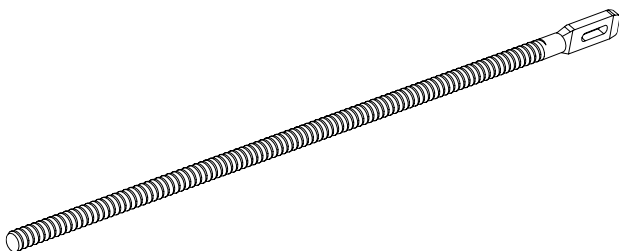
| PART #   | DESCRIPTION             | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------------------|------|---------|-----------|-----------|
| 055-4004 | 2 x 4 + 2x4 Strong Back | box  | 100     | 17        | N/A       |
| 055-6004 | 2 x 6 + 2x4 Strong Back | box  | 100     | 19  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

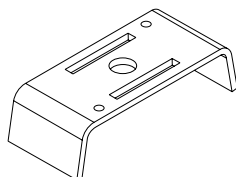
Strong Back J-Hooks are vertical alignment attachments that are placed at 90 degrees to walers. The strong backs are used to align the walers and are commonly placed at 6' on center.

**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       |

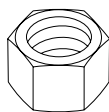
- Sizes shown are overall length. Subtract 2-3/4" for thread length.
- Other sizes available

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**

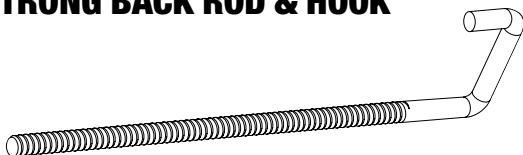
| PART #   | DESCRIPTION      | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------|------|---------|-----------|-----------|
| 302-1000 | Gang Waler Plate | each | 1       | .5        | N/A       |

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**

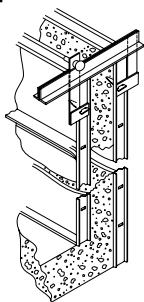
| PART #   | DESCRIPTION           | WEIGHT EA. |
|----------|-----------------------|------------|
| 190-0216 | 1/2" Hex Coil Rod Nut | 0.07       |

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**

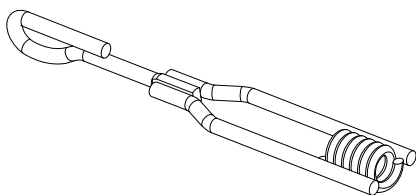
| PART #   | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------------|------|---------|-----------|-----------|
| 193-0012 | 12" J-Strg Bk Rod-Hook | each | 1       | 0.95      | N/A       |
| 193-0014 | 14" J-Strg Bk Rod-Hook | each | 1       | 1.15    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

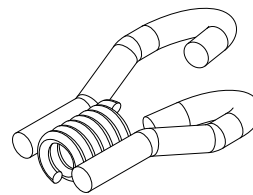
**CANTILEVER BRACKET**

| 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.

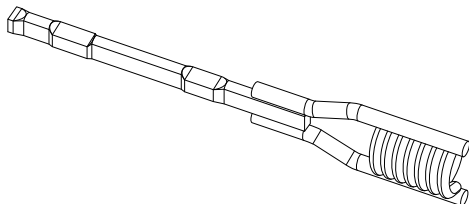
**HEAVY DUTY LOOP TRANSITION TIE**

| 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        |

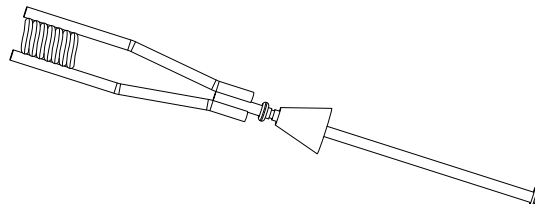
**REBAR TRANSITION HOOK**

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

■ Accommodates up to #6 bar

**TRANSITION RESI TIE**

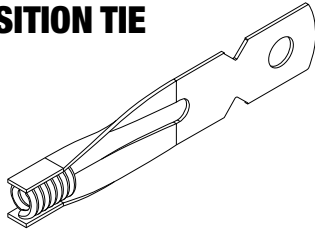
| PART #      | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. |
|-------------|------------------------|------|---------|-----------|
| 191-0420004 | 4" Resi Transition Tie | box  | 100     | 35        |
| 191-0420006 | 6" Resi Transition Tie | box  | 100     | 40        |

**TRANSITION SNAP TIE**

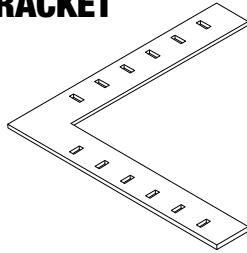
| PART #      | DESCRIPTION                            | UNIT | SOLD AS | WGT. |
|-------------|----------------------------------------|------|---------|------|
| 191-0321004 | 4" - 4-3/4" End Snap Tran. Tie w/ Cone | box  | 100     | 30   |
| 191-0321006 | 6" - 4-3/4" End Snap Tran. Tie w/ Cone | box  | 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



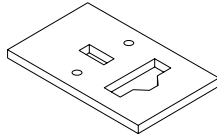
**ALUMINUM TRANSITION TIE**

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

**FOOTING CORNER BRACKET**

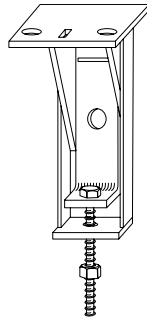
| PART #   | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------------|------|---------|-----------|-----------|
| 051-2100 | Footing Corner Bracket | each | 1       | 4.4       | N/A       |

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**

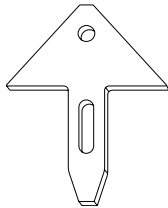
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 051-2200 | Stake Plate | each | 1       | 0.47      | N/A       |

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**

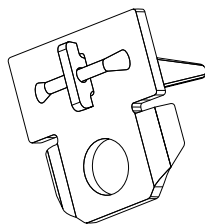
| PART #   | DESCRIPTION              | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------------------|------|---------|-----------|-----------|
| 051-5001 | Adjust. Shear Wall Brkt. | each | 1       | 8.5       | N/A       |

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**

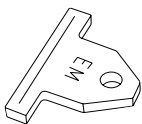
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 051-2400 | Guide Bolt  | each | 1       | 0.1       | N/A       |

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**

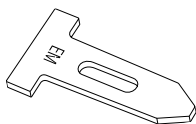
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 050-7000 | Safety Eye  | each | 1       | 0.71      | N/A       |

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

**BASE TIE WEDGE**

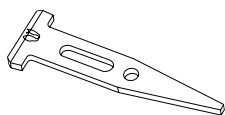
| PART #   | DESCRIPTION    | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|----------------|------|---------|-----------|-----------|
| 050-1003 | Base Tie Wedge | pail | 250     | 11        | 15,000    |

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    |

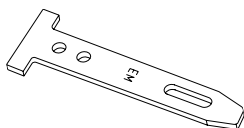
The short bolt eliminates the need to short stop standard wedge bolts. Can be used to attach inside corners and pilaster forms to Steel/Plywood forms.

**STANDARD WEDGE BOLT**

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

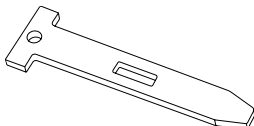
■ Discount at 5000 pieces and bulk discount at 25,000 pieces

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

**LONG WEDGE BOLT**

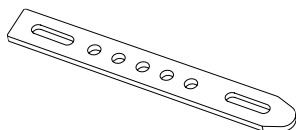
| PART #   | DESCRIPTION     | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-----------------|------|---------|-----------|-----------|
| 050-0002 | Long Wedge Bolt | pail | 250     | 39        | 15,000    |

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

**LIFT BRACKET BOLT**

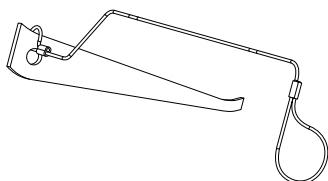
| PART #   | DESCRIPTION       | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------------|------|---------|-----------|-----------|
| 050-0003 | Lift Bracket Bolt | box  | 50      | 8         | N/A       |

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       |

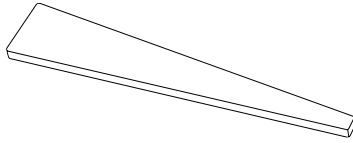
Adjustable Wedge Bolt is used to attach steel fillers to panels and fillers. Works well when 2 steel fillers are next to each other.

**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*<br>(shown) | each | 1       | .19       | N/A       |

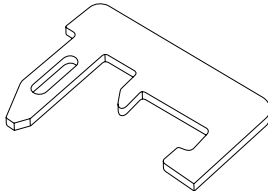
The S-Wedge is used to secure many Steel/Plywood accessories such as scaffold brackets, ply lags and anywhere those common slots are available.

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

**CURBING WEDGE**

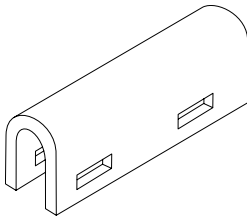
| PART #   | DESCRIPTION   | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|---------------|------|---------|-----------|-----------|
| 043-0012 | Curbing Wedge | each | 1       | 0.5       | N/A       |

Used on curb and gutter forms.

**GANG FORM BOLT**

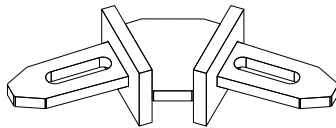
| PART #   | DESCRIPTION    | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|----------------|------|---------|-----------|-----------|
| 050-2001 | Gang Form Bolt | box  | 50      | 18        | N/A       |

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**

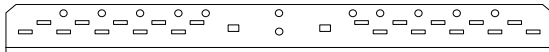
| PART #   | DESCRIPTION              | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------------------|------|---------|-----------|-----------|
| 302-0001 | Gang Form Adapter Sleeve | each | 1       | 0.58      | N/A       |

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

**45° WEDGE BOLT**

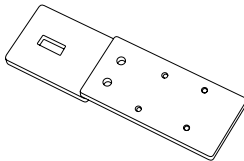
| PART #   | DESCRIPTION    | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|----------------|------|---------|-----------|-----------|
| 050-6000 | 45° Wedge Bolt | each | 1       | 0.30      | N/A       |

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

**BULKHEAD BAR**

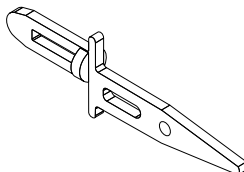
| PART #   | DESCRIPTION  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------|------|---------|-----------|-----------|
| 055-3000 | Bulkhead Bar | each | 1       | 6.8       | N/A       |

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.

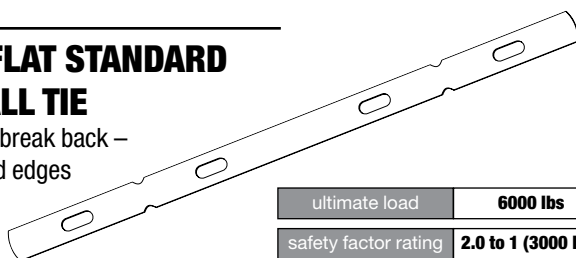
**ADAPTER PIN**

| 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



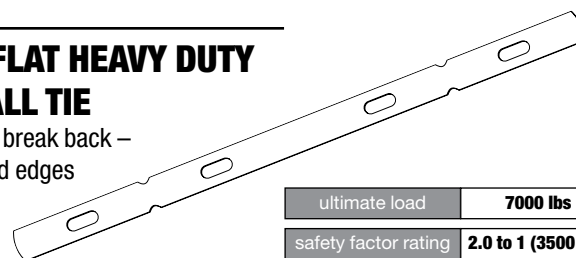
|                      |                            |
|----------------------|----------------------------|
| ultimate load        | <b>6000 lbs</b>            |
| safety factor rating | <b>2.0 to 1 (3000 lbs)</b> |

| 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        | <b>7000 lbs</b>            |
| safety factor rating | <b>2.0 to 1 (3500 lbs)</b> |

| 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

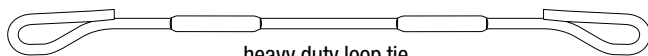


|                      |                            |
|----------------------|----------------------------|
| ultimate load        | <b>3000 lbs</b>            |
| safety factor rating | <b>2.0 to 1 (1500 lbs)</b> |

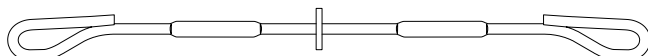
| PART #   | DESCRIPTION     | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-----------------|------|---------|-----------|-----------|
| 004-0006 | 6" Wire S Base  | box  | 100     | 16        | 10,000    |
| 004-0008 | 8" Wire S Base  | box  | 100     | 18        | 10,000    |
| 004-0010 | 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

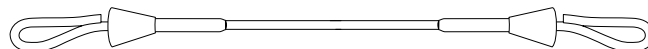
## HEAVY DUTY LOOP TIE



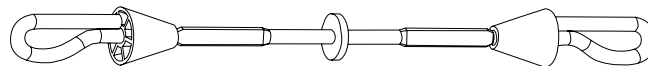
heavy duty loop tie



loop tie w/ water seal



loop tie w/ cone



loop tie w/ cones and water seal

|               |                 |                      |                            |
|---------------|-----------------|----------------------|----------------------------|
| ultimate load | <b>6000 lbs</b> | safety factor rating | <b>2.0 to 1 (3000 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|

| PART #   | DESCRIPTION     | UNIT | SOLD AS | UNIT WGT. |
|----------|-----------------|------|---------|-----------|
| 024-0006 | 6" HD Loop Tie  | box  | 100     | 20        |
| 024-0008 | 8" HD Loop Tie  | box  | 100     | 22        |
| 024-0010 | 10" HD Loop Tie | box  | 100     | 25        |
| 024-0012 | 12" HD Loop Tie | box  | 100     | 28        |
| 024-0014 | 14" HD Loop Tie | box  | 100     | 31        |
| 024-0016 | 16" HD Loop Tie | box  | 100     | 33        |
| 024-0018 | 18" HD Loop Tie | box  | 100     | 36        |
| 024-0020 | 20" HD Loop Tie | box  | 100     | 40        |
| 024-0022 | 22" HD Loop Tie | box  | 100     | 42        |
| 024-0024 | 24" HD Loop Tie | box  | 100     | 44        |

| PART #   | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. |
|----------|------------------------|------|---------|-----------|
| 024-1006 | 6" HD Loop Tie w Cone  | box  | 50      | 11        |
| 024-1008 | 8" HD Loop Tie w Cone  | box  | 50      | 12        |
| 024-1010 | 10" HD Loop Tie w Cone | box  | 50      | 13        |
| 024-1012 | 12" HD Loop Tie w Cone | box  | 50      | 15        |
| 024-1014 | 14" HD Loop Tie w Cone | box  | 50      | 16        |
| 024-1016 | 16" HD Loop Tie w Cone | box  | 50      | 17        |
| 024-1018 | 18" HD Loop Tie w Cone | box  | 50      | 19        |
| 024-1020 | 20" HD Loop Tie w Cone | box  | 50      | 20        |
| 024-1022 | 22" HD Loop Tie w Cone | box  | 50      | 21        |
| 024-1024 | 24" HD Loop Tie w Cone | box  | 50      | 23        |

|               |                 |                      |                            |
|---------------|-----------------|----------------------|----------------------------|
| ultimate load | <b>6000 lbs</b> | safety factor rating | <b>2.0 to 1 (3000 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|

| PART #   | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. |
|----------|------------------------|------|---------|-----------|
| 024-0306 | 6" HD Loop Tie w Seal  | box  | 100     | 21        |
| 024-0308 | 8" HD Loop Tie w Seal  | box  | 100     | 23        |
| 024-0310 | 10" HD Loop Tie w Seal | box  | 100     | 26        |
| 024-0312 | 12" HD Loop Tie w Seal | box  | 100     | 29        |
| 024-0314 | 14" HD Loop Tie w Seal | box  | 100     | 32        |
| 024-0316 | 16" HD Loop Tie w Seal | box  | 100     | 34        |
| 024-0318 | 18" HD Loop Tie w Seal | box  | 100     | 37        |
| 024-0320 | 20" HD Loop Tie w Seal | box  | 100     | 41        |
| 024-0322 | 22" HD Loop Tie w Seal | box  | 100     | 43        |
| 024-0324 | 24" HD Loop Tie w Seal | box  | 100     | 45        |

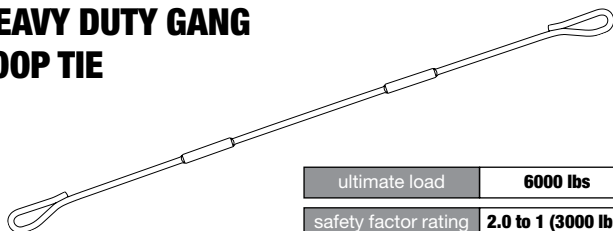
| PART #   | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. |
|----------|------------------------|------|---------|-----------|
| 024-1306 | 6" HD Loop Tie w C/WS  | box  | 50      | 12        |
| 024-1308 | 8" HD Loop Tie w C/WS  | box  | 50      | 13        |
| 024-1310 | 10" HD Loop Tie w C/WS | box  | 50      | 14        |
| 024-1312 | 12" HD Loop Tie w C/WS | box  | 50      | 16        |
| 024-1314 | 14" HD Loop Tie w C/WS | box  | 50      | 17        |
| 024-1316 | 16" HD Loop Tie w C/WS | box  | 50      | 18        |
| 024-1318 | 18" HD Loop Tie w C/WS | box  | 50      | 20        |
| 024-1320 | 20" HD Loop Tie w C/WS | box  | 50      | 21        |
| 024-1322 | 22" HD Loop Tie w C/WS | box  | 50      | 22        |
| 024-1324 | 24" HD Loop Tie w C/WS | box  | 50      | 23        |

■ Additional sizes available

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

■ Custom bent ties available.

## HEAVY DUTY GANG LOOP TIE



|                      |                            |
|----------------------|----------------------------|
| ultimate load        | <b>6000 lbs</b>            |
| safety factor rating | <b>2.0 to 1 (3000 lbs)</b> |

| 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

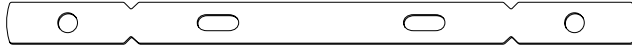
■ Standard breakback is 1". Additional charge for cones, water seal and non-standard breakbacks.



**FAST-LOCK TIE**

compatible with Duraform One Lock® system

|               |                 |                      |                            |
|---------------|-----------------|----------------------|----------------------------|
| ultimate load | <b>3000 lbs</b> | safety factor rating | <b>2.0 to 1 (1500 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|



| 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 | <b>7000 lbs</b> | safety factor rating | <b>2.0 to 1 (3500 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|



| 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 | <b>8800 lbs</b> | safety factor rating | <b>2.0 to 1 (4400 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|



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



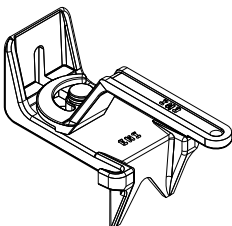
| PART #   | DESCRIPTION  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------|------|---------|-----------|-----------|
| 019-0006 | 6" "EB" Tie  | box  | 100     | 30        | 10,000    |
| 019-0008 | 8" "EB" Tie  | box  | 100     | 34        | 10,000    |
| 019-0010 | 10" "EB" Tie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

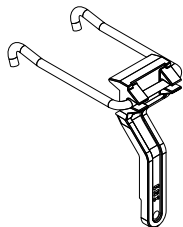
■ Additional sizes available

**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**

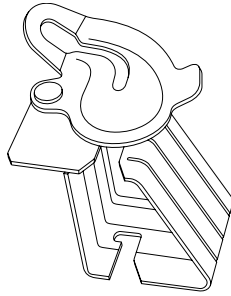
used with 3/4" plywood systems



| 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

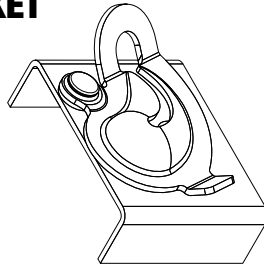
## "A" BRACKET



| 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

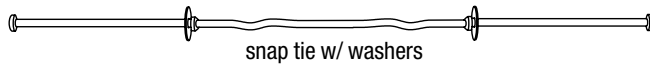


| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 052-0011 | "C" Bracket | box  | 50      | 55        | N/A       |

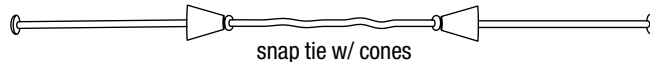
The C Bracket is used for holding double 2"x4" vertical strong backs on stick built forms using long end snap ties.

## SNAP TIE (4-3/4" END)

|               |          |                      |                     |
|---------------|----------|----------------------|---------------------|
| ultimate load | 4500 lbs | safety factor rating | 2.0 to 1 (2250 lbs) |
|---------------|----------|----------------------|---------------------|



snap tie w/ washers



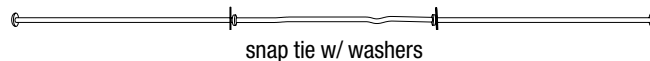
snap tie w/ cones

| 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     |

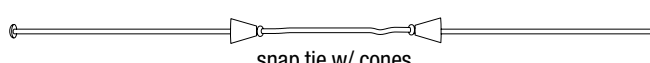
- Water seals available
- Additional sizes available

## SNAP TIE (8-1/4" END)

|               |          |                      |                     |
|---------------|----------|----------------------|---------------------|
| ultimate load | 4500 lbs | safety factor rating | 2.0 to 1 (2250 lbs) |
|---------------|----------|----------------------|---------------------|



snap tie w/ washers

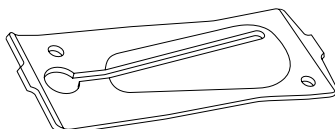


snap tie w/ cones

| 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

## SNAP TIE WEDGE

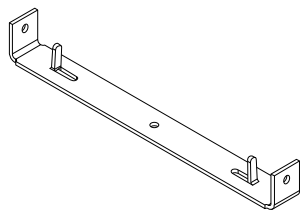


| PART #   | DESCRIPTION    | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|----------------|------|---------|-----------|-----------|
| 052-0001 | Snap Tie Wedge | box  | 100     | 45        | 5,000     |

The Snap Tie 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**

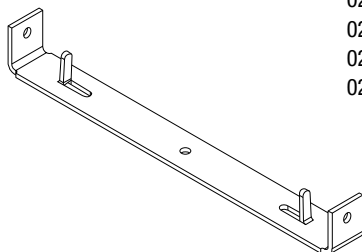
used with 3/4" plywood systems



| 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**

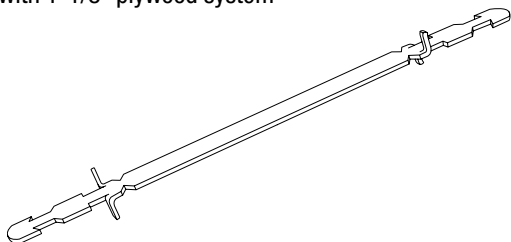
used with 1-1/8" plywood systems



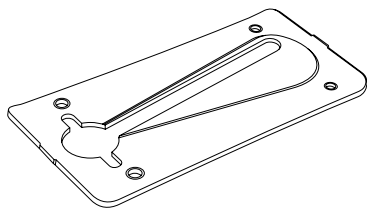
| PART #   | DESCRIPTION           | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-----------------------|------|---------|-----------|-----------|
| 029-0006 | 6" Ply Spacer 1-1/8"  | box  | 100     | 39        | 4,200     |
| 029-0008 | 8" Ply Spacer 1-1/8"  | box  | 100     | 46        | 3,000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

**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  | 100     | 52        | 3,500     |

**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.

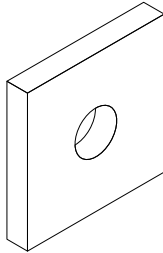
## COIL ROD



| 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        |

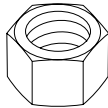
■ Cut sizes available

## FLAT WASHERS



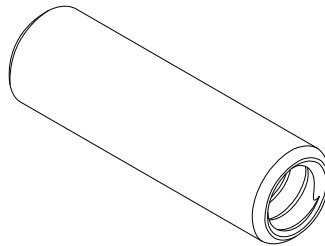
| PART #   | DESCRIPTION                           | WEIGHT EA. |
|----------|---------------------------------------|------------|
| 190-1016 | Std, 1/2" Dia. Hole 3" x 4" x 1/4"    | 0.90       |
| 190-1116 | HD, 1/2" Dia. Hole 4" x 5" x 1/4"     | 1.46       |
| 190-1024 | Std, 3/4" Dia. Hole 4" x 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       |

## HEX COIL NUTS



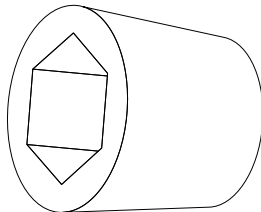
| PART #   | DESCRIPTION               | WEIGHT EA. |
|----------|---------------------------|------------|
| 190-0216 | 1/2" Coil Rod Nut (Std)   | 0.07       |
| 190-0220 | 5/8" Coil Rod Nut (Std)   | 0.11       |
| 190-0224 | 3/4" Coil Rod Nut (Std)   | 0.13       |
| 190-0228 | 7/8" Coil Rod Nut (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  | 20      | 27        |

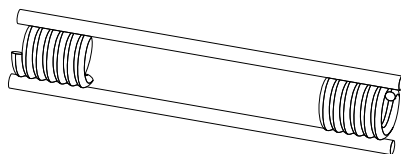
## FAST CONES



| 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

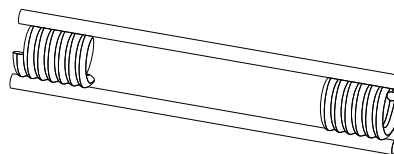


| PART #      | DESCRIPTION                   | WGT. EA. |
|-------------|-------------------------------|----------|
| 192-2104004 | 1/2" Std 2 Strut Coil Tie 4"  | 0.30     |
| 192-2104005 | 1/2" Std 2 Strut Coil Tie 5"  | 0.31     |
| 192-2104006 | 1/2" Std 2 Strut Coil Tie 6"  | 0.32     |
| 192-2104007 | 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

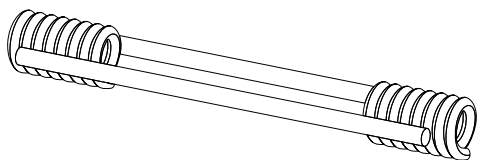


| PART #      | DESCRIPTION                  | WGT. EA. |
|-------------|------------------------------|----------|
| 192-2204004 | 1/2" HD 2 Strut Coil Tie 4"  | 0.56     |
| 192-2204005 | 1/2" HD 2 Strut Coil Tie 5"  | 0.57     |
| 192-2204006 | 1/2" HD 2 Strut Coil Tie 6"  | 0.58     |
| 192-2204007 | 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

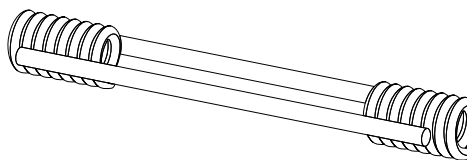


| PART #      | DESCRIPTION                             | WGT. EA. |
|-------------|-----------------------------------------|----------|
| 192-2304004 | 1/2" Std Fast Cone 2 Strut Coil Tie 4"  | 0.32     |
| 192-2304005 | 1/2" Std Fast Cone 2 Strut Coil Tie 5"  | 0.33     |
| 192-2304006 | 1/2" Std 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



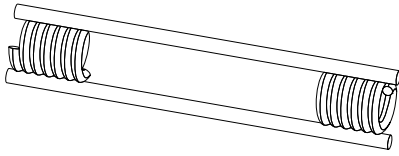
| PART #      | DESCRIPTION                            | WGT. EA. |
|-------------|----------------------------------------|----------|
| 192-2404004 | 1/2" HD Fast Cone 2 Strut Coil Tie 4"  | 0.58     |
| 192-2404005 | 1/2" HD Fast Cone 2 Strut Coil Tie 5"  | 0.60     |
| 192-2404006 | 1/2" HD Fast 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

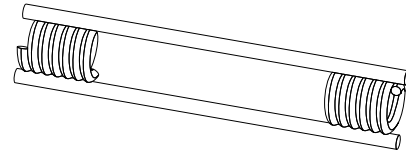


| PART #      | DESCRIPTION                   | WGT. EA. |
|-------------|-------------------------------|----------|
| 192-2106004 | 3/4" Std 2 Strut Coil Tie 4"  | 0.70     |
| 192-2106005 | 3/4" Std 2 Strut Coil Tie 5"  | 0.74     |
| 192-2106006 | 3/4" Std 2 Strut Coil Tie 6"  | 0.78     |
| 192-2106007 | 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

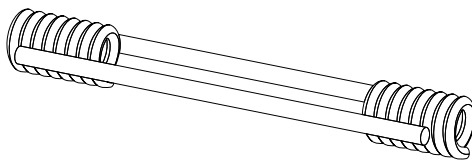


| PART #      | DESCRIPTION                   | WGT. EA. |
|-------------|-------------------------------|----------|
| 192-2206004 | 3/4" HD 2 Strut Coil Tie 4"   | 0.74     |
| 192-2206005 | 3/4" Std 2 Strut Coil Tie 5"  | 0.76     |
| 192-2206006 | 3/4" Std 2 Strut Coil Tie 6"  | 0.80     |
| 192-2206007 | 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

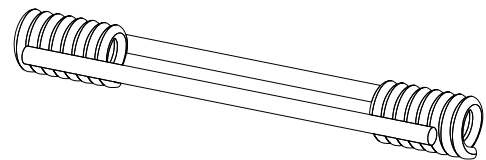


| PART #      | DESCRIPTION                             | WGT. EA. |
|-------------|-----------------------------------------|----------|
| 192-2306004 | 3/4" Std Fast Cone 2 Strut Coil Tie 4"  | 0.74     |
| 192-2306005 | 3/4" Std Fast Cone 2 Strut Coil Tie 5"  | 0.75     |
| 192-2306006 | 3/4" Std 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

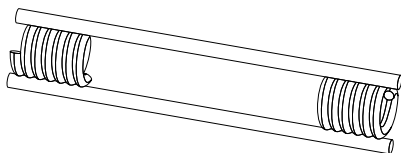


| PART #      | DESCRIPTION                            | WGT. EA. |
|-------------|----------------------------------------|----------|
| 192-2406004 | 3/4" HD Fast Cone 2 Strut Coil Tie 4"  | 0.78     |
| 192-2406005 | 3/4" HD Fast Cone 2 Strut Coil Tie 5"  | 0.80     |
| 192-2406006 | 3/4" HD Fast 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

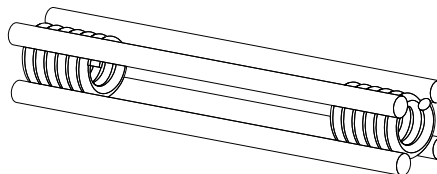


| PART #      | DESCRIPTION                 | WGT. EA. |
|-------------|-----------------------------|----------|
| 192-2108004 | 1" Std 2 Strut Coil Tie 4"  | 1.38     |
| 192-2108005 | 1" Std 2 Strut Coil Tie 5"  | 1.40     |
| 192-2108006 | 1" Std 2 Strut Coil Tie 6"  | 1.42     |
| 192-2108007 | 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

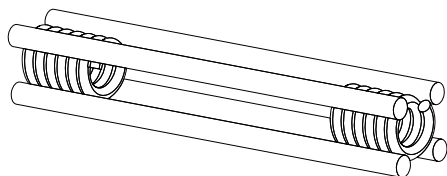


| PART #      | DESCRIPTION                 | WGT. EA. |
|-------------|-----------------------------|----------|
| 192-4108005 | 1" Std 4 Strut Coil Tie 5"  | 1.58     |
| 192-4108006 | 1" Std 4 Strut Coil Tie 6"  | 1.66     |
| 192-4108007 | 1" Std 4 Strut Coil Tie 7"  | 1.68     |
| 192-4108008 | 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

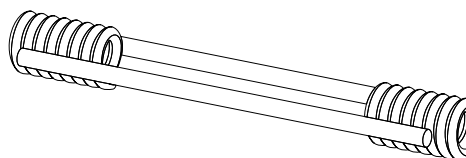


| PART #      | DESCRIPTION                | WGT. EA. |
|-------------|----------------------------|----------|
| 192-4208005 | 1" HD 4 Strut Coil Tie 5"  | 2.28     |
| 192-4208006 | 1" HD 4 Strut Coil Tie 6"  | 2.30     |
| 192-4208007 | 1" HD 4 Strut Coil Tie 7"  | 2.34     |
| 192-4208008 | 1" HD 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

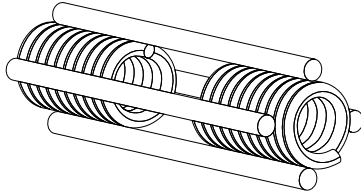


| PART #      | DESCRIPTION                           | WGT. EA. |
|-------------|---------------------------------------|----------|
| 192-2308006 | 1" Std Fast Cone 2 Strut Coil Tie 6"  | 1.58     |
| 192-2308007 | 1" Std Fast Cone 2 Strut Coil Tie 7"  | 1.62     |
| 192-2308008 | 1" Std Fast Cone 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

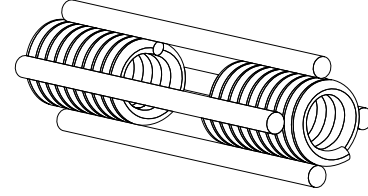


| PART #      | DESCRIPTION                           | WGT. EA. |
|-------------|---------------------------------------|----------|
| 192-4308006 | 1" Std Fast Cone 4 Strut Coil Tie 6"  | 1.62     |
| 192-4308007 | 1" Std Fast Cone 4 Strut Coil Tie 7"  | 1.64     |
| 192-4308008 | 1" Std Fast Cone 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

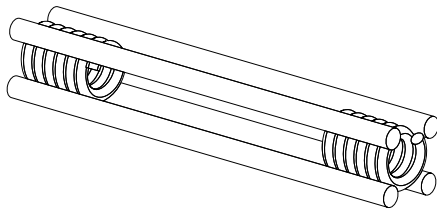


| PART #      | DESCRIPTION                          | WGT. EA. |
|-------------|--------------------------------------|----------|
| 192-4408006 | 1" HD Fast Cone 4 Strut Coil Tie 6"  | 2.30     |
| 192-4408007 | 1" HD Fast Cone 4 Strut Coil Tie 7"  | 2.34     |
| 192-4408008 | 1" HD Fast Cone 4 Strut 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

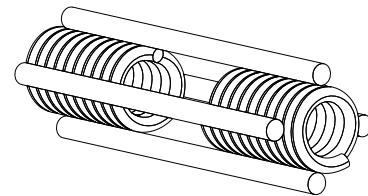


| PART #      | DESCRIPTION                     | WGT. EA. |
|-------------|---------------------------------|----------|
| 192-4110006 | 1-1/4" Std 4 Strut Coil Tie 6"  | 2.18     |
| 192-4110007 | 1-1/4" Std 4 Strut Coil Tie 7"  | 2.22     |
| 192-4110008 | 1-1/4" Std 4 Strut Coil Tie 8"  | 2.26     |
| 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

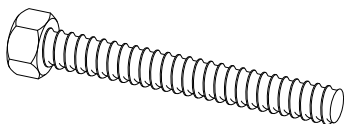
## STANDARD 4 STRUT 1-1/4" CONE FAST COIL TIE

27,000 LBS SAFE WORKING LOAD



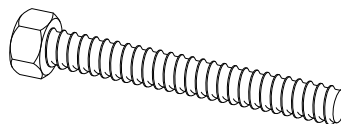
| PART #      | DESCRIPTION                               | WGT. EA. |
|-------------|-------------------------------------------|----------|
| 192-4310006 | 1-1/4" Std Fast Cone 4 Strut Coil Tie 6"  | 2.38     |
| 192-4310007 | 1-1/4" Std Fast Cone 4 Strut Coil Tie 7"  | 2.42     |
| 192-4310008 | 1-1/4" 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"**

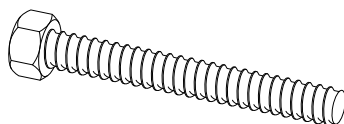
| PART #      | DESCRIPTION           | WEIGHT EA. |
|-------------|-----------------------|------------|
| 190-0616-02 | 1/2" Coil Bolt 2" lg  | 0.12       |
| 190-0616-03 | 1/2" Coil Bolt 3" lg  | 0.18       |
| 190-0616-04 | 1/2" Coil Bolt 4" lg  | 0.23       |
| 190-0616-05 | 1/2" Coil Bolt 5" lg  | 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"**

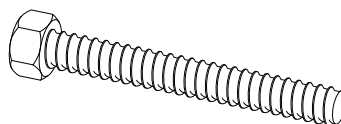
| PART #      | DESCRIPTION           | WEIGHT EA. |
|-------------|-----------------------|------------|
| 190-0624-02 | 3/4" Coil Bolt 2" lg  | 0.31       |
| 190-0624-03 | 3/4" Coil Bolt 3" lg  | 0.43       |
| 190-0624-04 | 3/4" Coil Bolt 4" lg  | 0.55       |
| 190-0624-05 | 3/4" Coil Bolt 5" lg  | 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       |

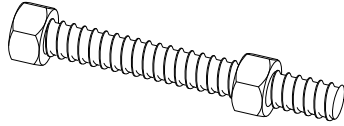
■ Additional sizes available

**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

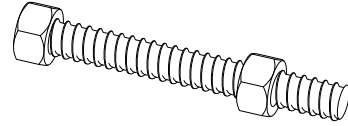
## COIL BOLT 1/2" ADJ.



| 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

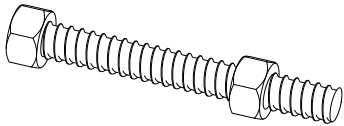
## COIL BOLT 3/4" ADJ.



| 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

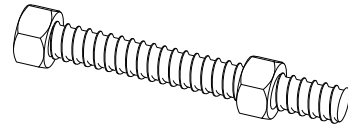
## COIL BOLT 1" ADJ.



| 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

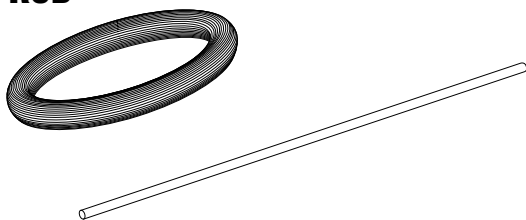
## COIL BOLT 1-1/4" ADJ.



| 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

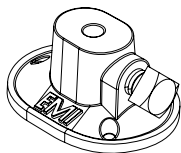
## PENCIL ROD



| 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        |

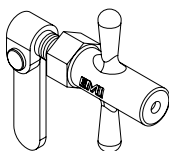
■ Additional lengths available

## 1/4" PENCIL ROD CLAMP



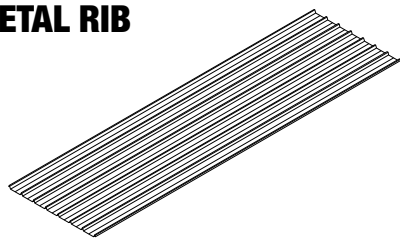
| PART #   | DESCRIPTION           | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-----------------------|------|---------|-----------|-----------|
| 370-0001 | 1/4" Pencil Rod Clamp | box  | 50      | 34        | 1,250     |

## 1/4" PENCIL ROD TIGHTENER



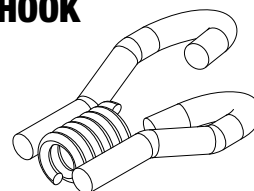
| PART #   | DESCRIPTION               | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|---------------------------|------|---------|-----------|-----------|
| 370-0002 | 1/4" Pencil Rod Tightener | each | 1       | 1.4       | 1,250     |

## 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       |

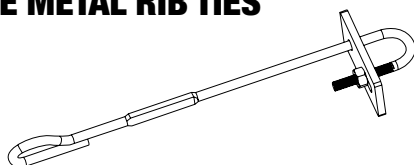
## REBAR TRANSITION HOOK



| 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



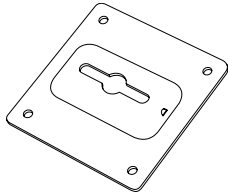
| PART #   | DESCRIPTION       | UNIT | SOLD AS | UNIT WGT. |
|----------|-------------------|------|---------|-----------|
| 115-4006 | 6" Metal Rib Tie  | box  | 100     | 26        |
| 115-4008 | 8" Metal Rib Tie  | box  | 100     | 30        |
| 115-4010 | 10" Metal Rib Tie | box  | 100     | 32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



## 1-1/8 FORMING SYSTEM TIES AND ACCESSORIES

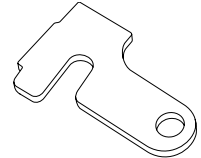
All ties and accessories are compatible with Duraform™ 1-1/8, Advanced™ 1-1/8, Symons™ 1-1/8 Resi Ply™ and Universal™ 1-1/8 Forms. All hardware is plated with zinc dichromate to resist rust and decrease clean up time.

### STACKING PLATE



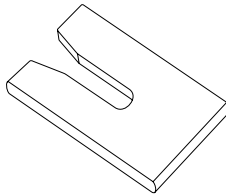
| PART #   | DESCRIPTION    | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|----------------|------|---------|-----------|-----------|
| 045-0001 | Stacking Plate | box  | 100     | 35        | N/A       |

### 1" OUTSIDE CORNER LATCH



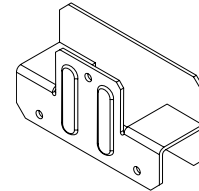
| PART #   | DESCRIPTION             | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------------------|------|---------|-----------|-----------|
| 045-0005 | 1" Outside Corner Latch | box  | 100     | 28        | N/A       |

### 1/2 CLIPS



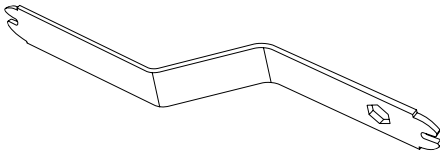
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 045-0003 | 1/2 Clips   | box  | 250     | 29        | N/A       |

### STACKING CLIPS



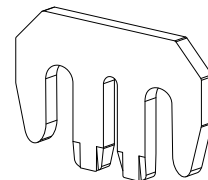
| PART #   | DESCRIPTION          | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|----------------------|------|---------|-----------|-----------|
| 045-0006 | 1-1/8" Stacking Clip | box  | 50      | 20        | N/A       |
| 045-0007 | 1-1/2" Stacking Clip | box  | 50      | 25        | N/A 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

### BREAK OFF TOOL



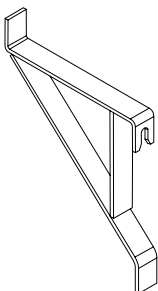
| PART #   | DESCRIPTION              | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------------------|------|---------|-----------|-----------|
| 045-0004 | Break Off Tool - Economy | each | 1       | 1         | N/A       |

### CORNER E CLIP

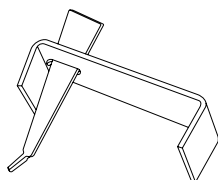


| PART #   | DESCRIPTION   | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|---------------|------|---------|-----------|-----------|
| 045-0014 | Corner E Clip | each | 1       | 0.35      | N/A       |

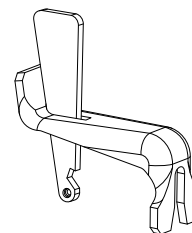
### HEAVY DUTY WALER BRACKETS



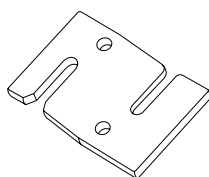
| PART #   | DESCRIPTION          | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|----------------------|------|---------|-----------|-----------|
| 045-0412 | 12" HD Waler Bracket | each | 1       | 7         | N/A       |
| 045-0410 | 10" HD Waler Bracket | each | 1       | 5         | N/A 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

**TOP WALER**

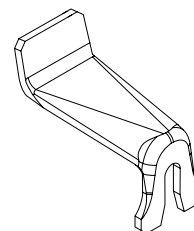
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 045-0013 | Top Waler   | box  | 25      | 34        | N/A       |

**4" WALER BRACKET W/WEDGE**

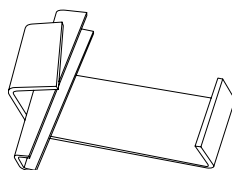
| PART #   | DESCRIPTION                    | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------------------------|------|---------|-----------|-----------|
| 045-1104 | 4" Waler Brkt. w/Wedge (1 pc.) | box  | 25      | 35        | N/A       |

**OFFSET CLIP**

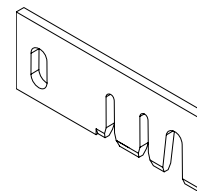
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 045-0016 | Offset Clip | box  | 50      | 23        | N/A       |

**6" WALER BRACKET**

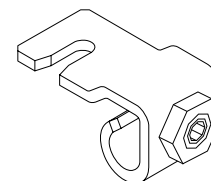
| PART #   | DESCRIPTION      | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------|------|---------|-----------|-----------|
| 045-1106 | 6" Waler Bracket | box  | 25      | 36        | N/A       |

**SLOTTED TOP WALER**

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

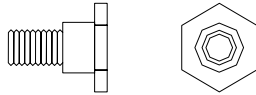
**STANDARD LATCH**

| 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



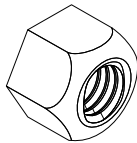
| PART #    | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|-----------|------------------------|------|---------|-----------|-----------|
| P160-0025 | x.500" Hex Shldr. Bolt | box  | 500     | 19        | N/A       |
| P160-0028 | x.250" Hex Shldr. Bolt | box  | 500     | 12  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

## SLEEVE NUT



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

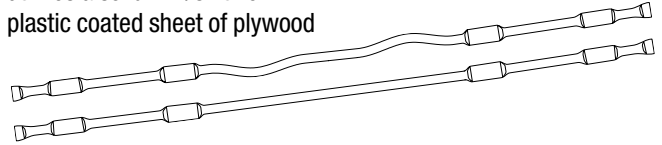
## NYLON LOCK NUT



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

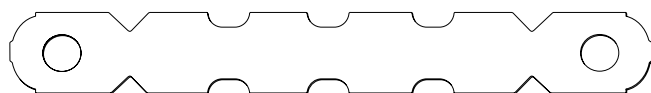
## RESIDENTIAL WALL TIE

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

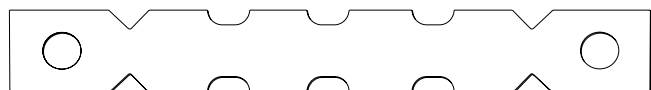


| PART #   | DESCRIPTION                  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------------------|------|---------|-----------|-----------|
| 042-0006 | 6" Bent Residential Tie      | box  | 250     | 44        | 10,000    |
| 042-0008 | 8" Bent Residential Tie      | box  | 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"



standard round end



square end



two combo



three combo

## NOMINAL WALL TIES

with standard break back

|               |                 |                      |                            |
|---------------|-----------------|----------------------|----------------------------|
| ultimate load | <b>7500 lbs</b> | safety factor rating | <b>2.0-to-1 (3750 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|

| 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 | <b>7500 lbs</b> | safety factor rating | <b>2.0-to-1 (3750 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|

| 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".

## BASE TIES

|               |                 |                      |                            |
|---------------|-----------------|----------------------|----------------------------|
| ultimate load | <b>3000 lbs</b> | safety factor rating | <b>2.0-to-1 (1500 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|



| PART #         | DESCRIPTION          | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------------|----------------------|------|---------|-----------|-----------|
| <b>NOMINAL</b> |                      |      |         |           |           |
| 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     |
| <b>FULL</b>    |                      |      |         |           |           |
| 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 | <b>7000 lbs</b> | safety factor rating | <b>2.0-to-1 (3500 lbs)</b> |
|---------------|-----------------|----------------------|----------------------------|



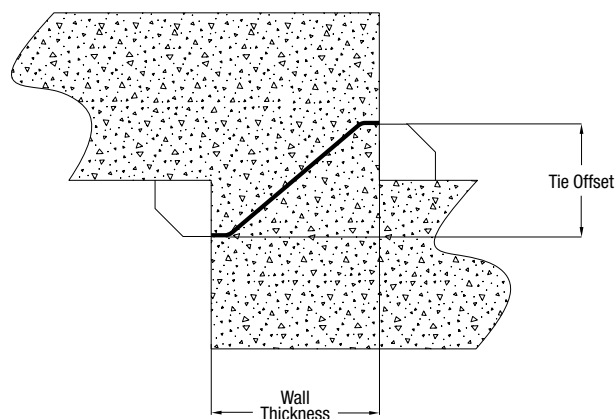
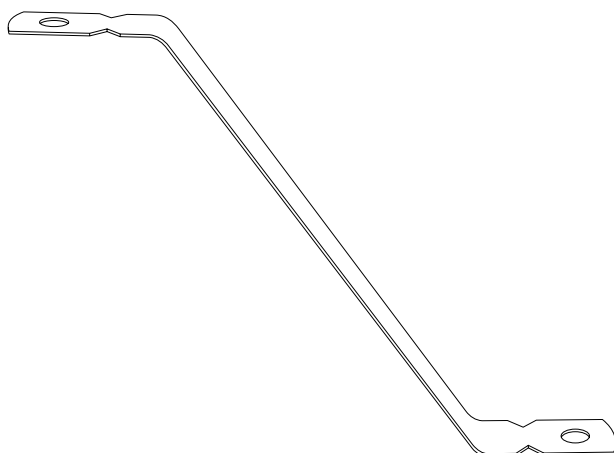
| PART #         | DESCRIPTION            | UNIT   | SOLD AS | UNIT WGT. | SKID QTY. |
|----------------|------------------------|--------|---------|-----------|-----------|
| <b>NOMINAL</b> |                        |        |         |           |           |
| 007-4006       | 6" Nom 1" Break Back   | 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     |
| <b>FULL</b>    |                        |        |         |           |           |
| 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

## OFFSET TIE

used to form offsets

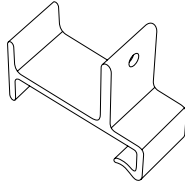
- Prevents corner(s) from kinking
- Economical – same vertical spacing as regular ties
- Eliminates additional bracing
- Breaks off horizontally to the wall for a clean finish
- Provides a better water seal



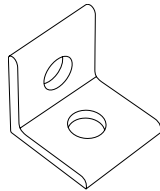
| PART #         | DESCRIPTION       | UNIT   | SOLD AS | UNIT WGT. | SKID QTY. |
|----------------|-------------------|--------|---------|-----------|-----------|
| <b>NOMINAL</b> |                   |        |         |           |           |
| 007-0406-OS    | 6" Nom (4" OS)    | bundle | 50      | 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     |
| <b>FULL</b>    |                   |        |         |           |           |
| 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.

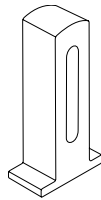
■ Additional sizes available

**ALUMINUM CAP CLIP**

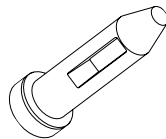
| PART #   | DESCRIPTION       | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------------|------|---------|-----------|-----------|
| 014-0002 | Aluminum Cap Clip | box  | 100     | 8         | 5,000     |

**90° ANGLE CLIP**

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

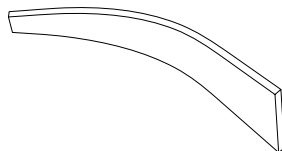
**“SILVER BULLET”  
BASE PIN**

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

**ROUND HEAD PIN**

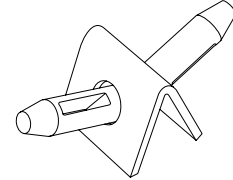
| PART #   | DESCRIPTION           | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-----------------------|------|---------|-----------|-----------|
| 065-1002 | Standard Rnd Head Pin | pail | 250     | 58        | 9,000     |

■ Discount at 5000 pcs.

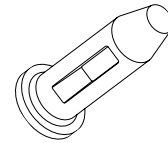
**CURVED WEDGE**

| PART #   | DESCRIPTION  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------|------|---------|-----------|-----------|
| 013-0001 | Curved Wedge | pail | 250     | 26        | 25,000    |

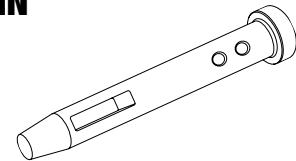
■ Discount at 5000 pcs.

**45° ANGLE PIN**

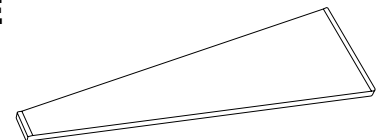
| PART #   | DESCRIPTION  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------|------|---------|-----------|-----------|
| 043-1006 | 45 Angle Pin | pail | 50      | 30        | 3,000     |

**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**

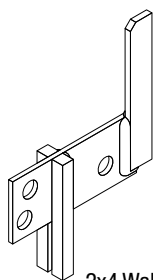
| PART #   | DESCRIPTION      | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------|------|---------|-----------|-----------|
| 065-1003 | Combo Filler Pin | pail | 75      | 30        | N/A       |

**FLAT WEDGE**

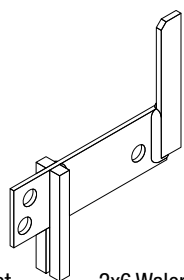
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 013-0003 | Flat Wedge  | pail | 250     | 26        | 25,000    |

■ Discount at 5000 pcs.

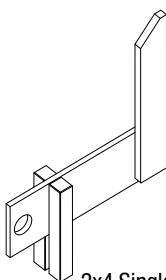


**SMOOTH/BRICK FACE WALER BRACKET**

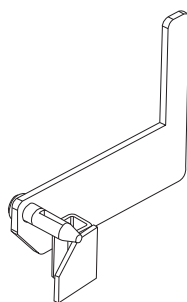
2x4 Waler Bracket



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       |

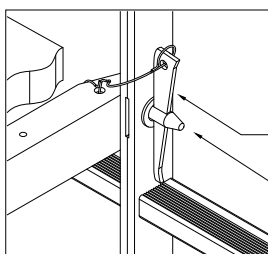
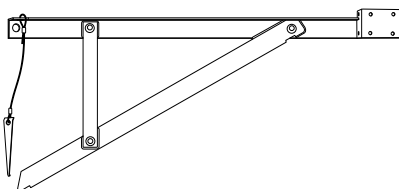
**WEDGELESS WALER**

| 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

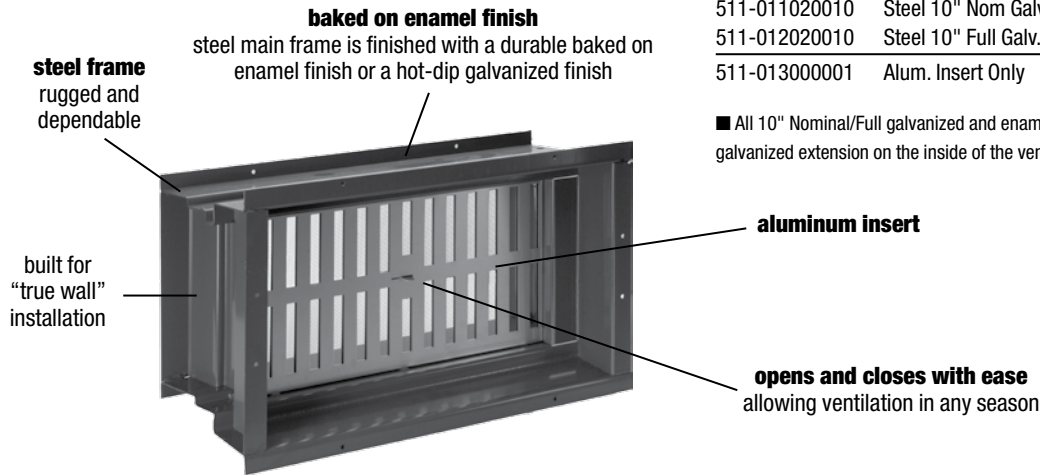
Round Head Pin

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.

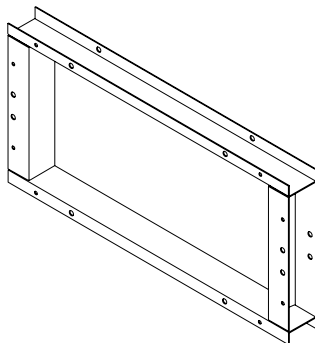


| PART #        | DESCRIPTION           | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|---------------|-----------------------|------|---------|-----------|-----------|
| 511-011010008 | Steel 8" Nom Enamel   | each | 1       | 10.8      | 80        |
| 511-012010008 | Steel 8" Full Enamel  | each | 1       | 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.

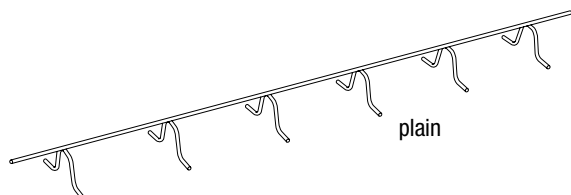
## FOUNDATION VENT EXTENSION

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.



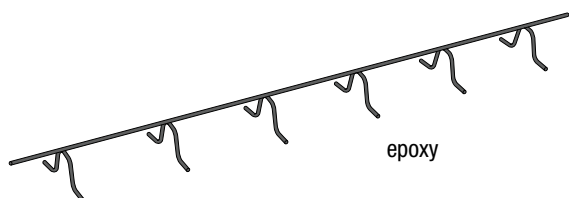
| PART #        | DESCRIPTION        | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|---------------|--------------------|------|---------|-----------|-----------|
| 511-013030205 | 2" Vent Ext.-Galv. | each | 1       | 3         | N/A       |

## SLAB BOLSTER



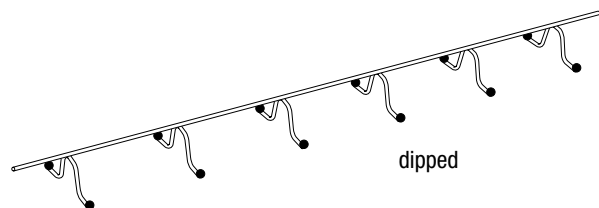
| PLAIN PART # | DESCRIPTION                    | UNIT   | SOLD AS | SKID QTY. |
|--------------|--------------------------------|--------|---------|-----------|
| 453-001000   | 3/4"x5' Slab Bolster - Plain   | bundle | 20      | 3,000     |
| 453-002000   | 1"x5' Slab Bolster - Plain     | bundle | 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       |

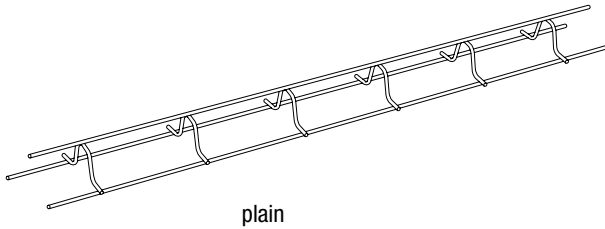
■ Additional sizes available



| 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       |

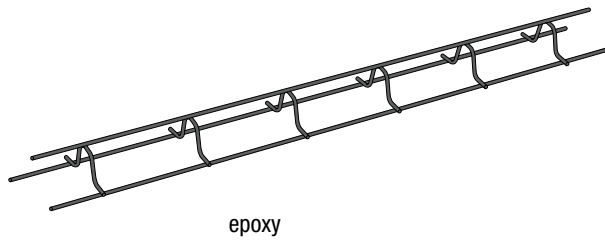
■ Additional sizes available

## 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       |

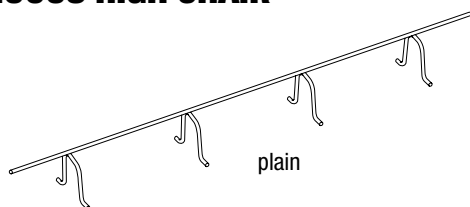
■ Additional sizes available



| 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       |

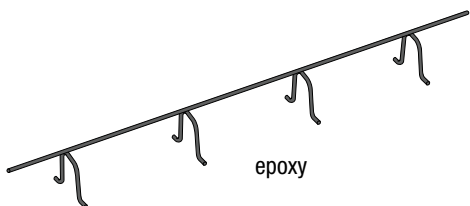
■ Additional sizes available

## CONTINUOUS HIGH CHAIR



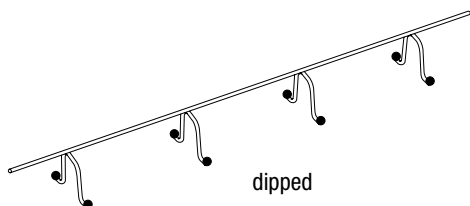
| PLAIN PART # | DESCRIPTION                             | UNIT   | SOLD AS | SKID QTY. |
|--------------|-----------------------------------------|--------|---------|-----------|
| 449-003000   | 3"x5' Continuous High Chair - Plain     | bundle | 20      | 1,000     |
| 449-004000   | 3-1/2"x5' Continuous 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       |

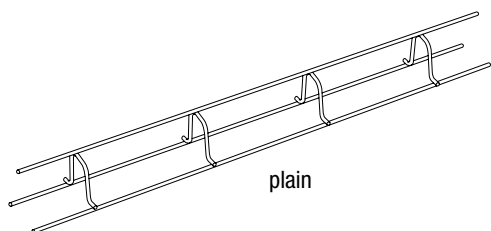
■ Additional sizes available



| 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       |

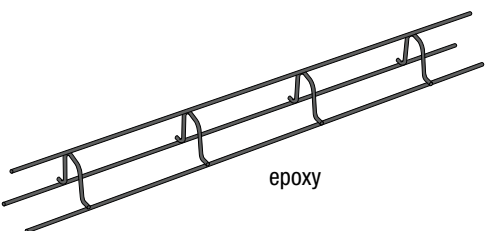
■ Additional sizes available

## 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       |

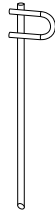
■ Additional sizes available



| 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       |

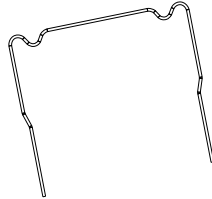
■ Additional sizes available

## P STAKE



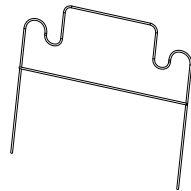
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 438-0010 | 10" P Stake | box  | 100     | 26        | N/A       |
| 438-0012 | 12" P Stake | box  | 100     | 30        | N/A       |

## REBAR HOLDER



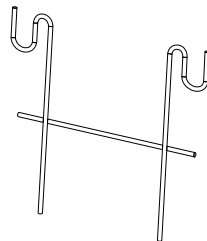
| PART #   | DESCRIPTION  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------|------|---------|-----------|-----------|
| 445-0002 | Rebar Holder | box  | 100     | 17        | 5,000     |

## SPEED CHAIR



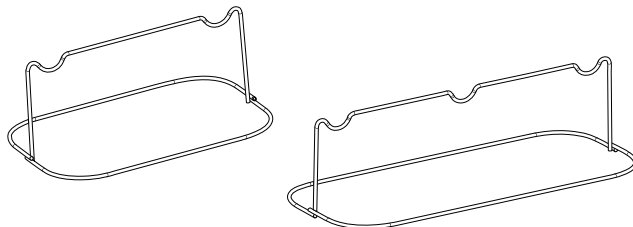
| PLAIN PART # | DESCRIPTION | UNIT | SOLD AS | UNIT WGT | SKID QTY |
|--------------|-------------|------|---------|----------|----------|
| 445-0004     | Speed Chair | box  | 100     | 25       | 2,700    |

## HEAVY DUTY REBAR FOOTING CHAIR



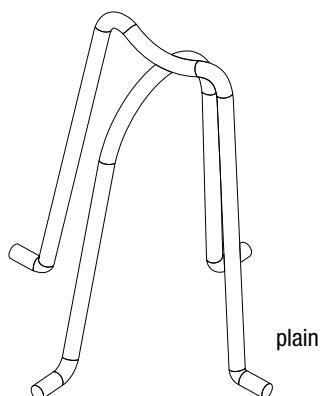
| PART #   | DESCRIPTION            | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------------|------|---------|-----------|-----------|
| 445-0003 | HD Rebar Footing Chair | box  | 75      | 31        | 2,400     |

## REBAR FOOTER CHAIR



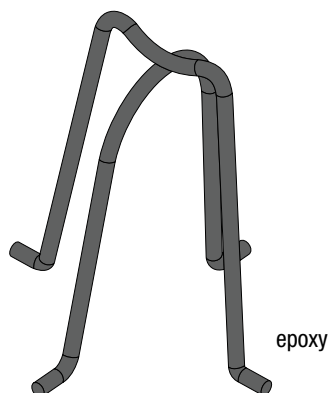
| PART #   | DESCRIPTION                     | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|---------------------------------|------|---------|-----------|-----------|
| 445-0006 | #2 3 x 6/8 Rebar Footer Chair   | box  | 100     | 12        | N/A       |
| 445-0007 | #3 3 x 10/16 Rebar Footer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

## INDIVIDUAL STEEL HI CHAIR



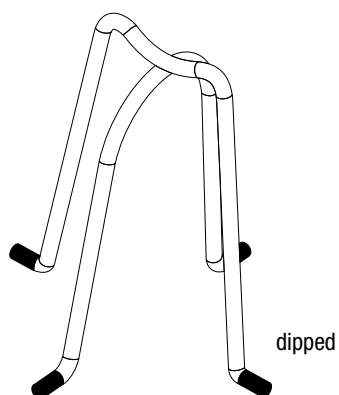
| PLAIN PART # | DESCRIPTION                      | UNIT | SOLD AS | UNIT WGT | SKID QTY |
|--------------|----------------------------------|------|---------|----------|----------|
| 445-2002     | 2" Ind Steel Hi Chair -Plain     | box  | 100     | 21       | N/A      |
| 445-2322     | 2-1/2" Ind 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



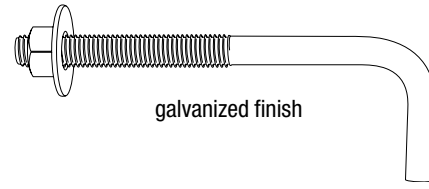
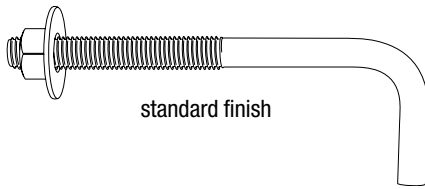
| DIPPED PART # | DESCRIPTION                        | UNIT | SOLD AS | UNIT WGT | SKID QTY |
|---------------|------------------------------------|------|---------|----------|----------|
| 445-4002      | 2" Ind Steel Hi Chair - Dipped     | box  | 100     | 21       | N/A      |
| 445-4322      | 2-1/2" 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



## ANCHOR BOLTS

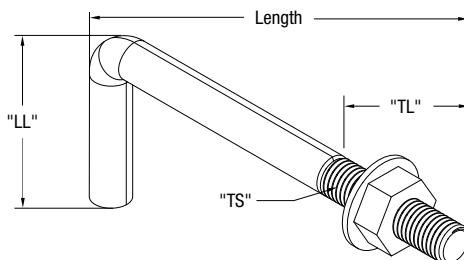
washer and nut included



| 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     |
| 070-3108 | 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       |

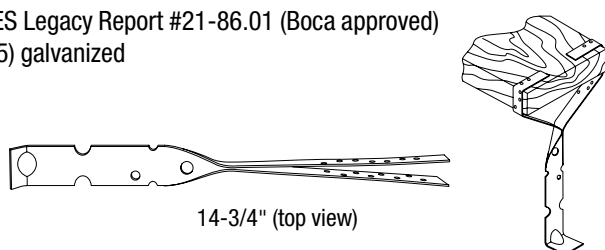
■ Additional sizes may be available



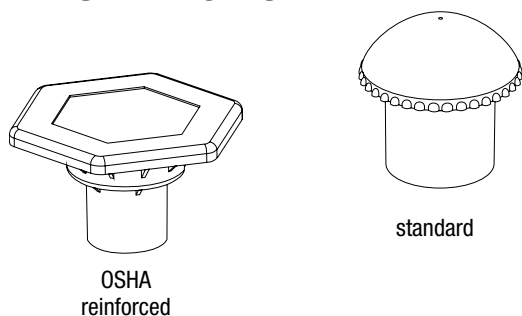
| DIAMETER | "TS" THREAD SIZE | "TL" THREAD LENGTH | "LL" LEG LENGTH |
|----------|------------------|--------------------|-----------------|
| 1/2"     | 1/2-13           | 2"                 | 1-1/4"          |
| 5/8"     | 5/8-11           | 3-3/4"             | 1-1/2"          |
| 3/4"     | 3/4-10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

**ANCHOR STRAP**

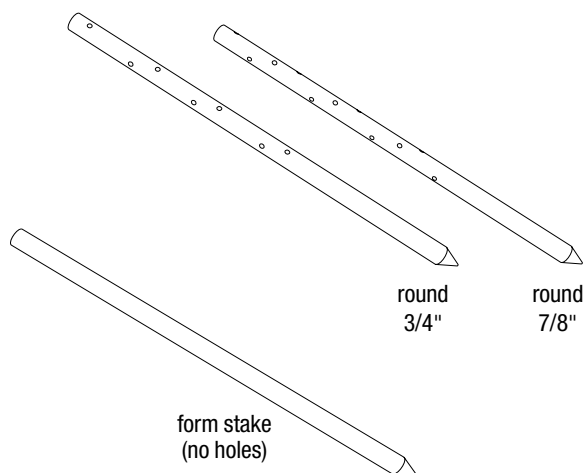
ICC-ES Legacy Report #21-86.01 (Boca approved)  
(G185) galvanized



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

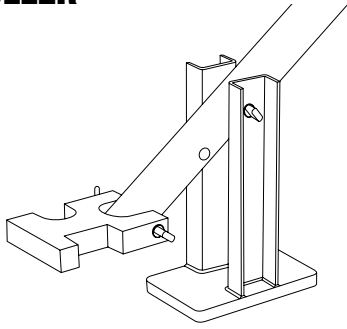
**REBAR SAFETY CAPS**

| 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        | 2,700     |

**STEEL NAIL STAKE**

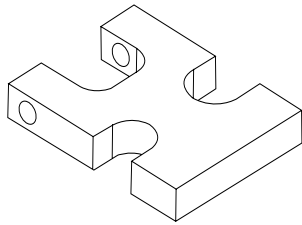
| PART #                     | DESCRIPTION               | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------------------------|---------------------------|------|---------|-----------|-----------|
| <b>ROUND</b>               |                           |      |         |           |           |
| 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       |
| <b>FORM STAKE/NO HOLES</b> |                           |      |         |           |           |
| 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       |

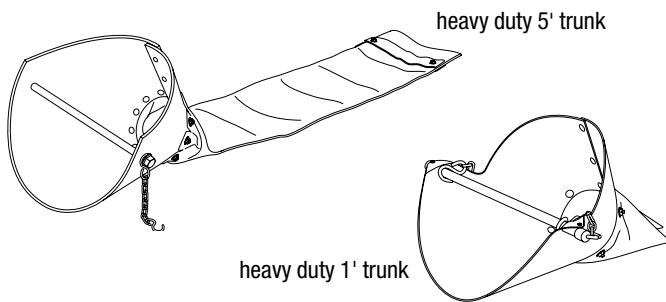
## ROUND NAIL STAKE BLOCK



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

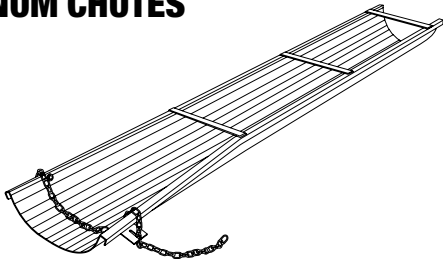
Alternative block for the stake puller. Accommodates both 3/4" and 7/8" round nail stakes.

## SLURRY CHUTES



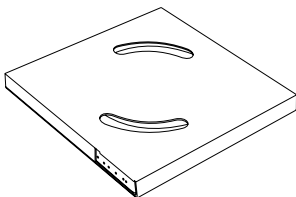
| PART #      | DESCRIPTION             | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|-------------|-------------------------|------|---------|-----------|-----------|
| 096-0801    | 8" x 1' HD Slurry Chute | each | 1       | 15        | N/A       |
| 096-0805    | 8" x 5' HD Slurry Chute | each | 1       | 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       |

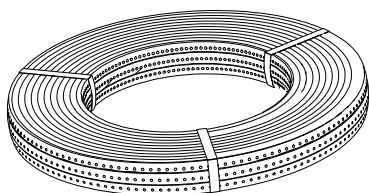
## PUNCHED HOLE STRAPPING



| 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.

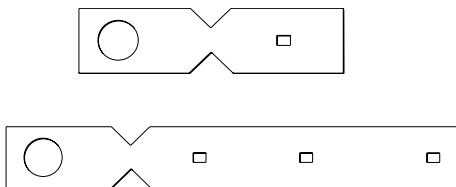
## PUNCHED HOLE STRAPPING COILS



| PART #   | DESCRIPTION                  | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|------------------------------|------|---------|-----------|-----------|
| 071-0002 | Punched Strapping - 100 lbs. | each | 1       | 100       | 15        |
| 071-0003 | Punched Strapping - 75 lbs.  | each | 1       | 75        | 24        |

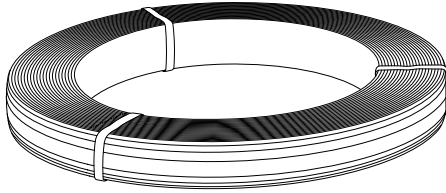
## SCAFFOLD TIE

for block or masonry applications



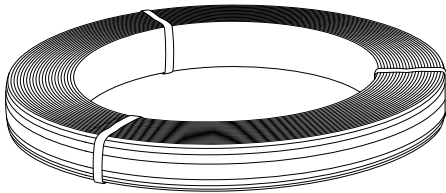
| PART #   | DESCRIPTION     | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-----------------|------|---------|-----------|-----------|
| 073-0005 | 5" Scaffold Tie | box  | 100     | 18        | 10,000    |
| 073-0009 | 9" Scaffold Tie | box  | 100     | 35        | 10,000    |

## STRAPPING RIBBON WOUND PAINTED BLACK



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

## STRAPPING OSCILLATE WOUND PAINTED BLACK



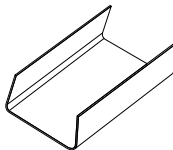
| PART #    | DESCRIPTION                                                | UNIT  | SOLD AS | UNIT WGT. | SKID QTY. |
|-----------|------------------------------------------------------------|-------|---------|-----------|-----------|
| 079-21623 | 1/2" Strapping .0236" THK<br>Oscillate Wound Painted Black | rolls | 1       | can vary  | 16        |

■ Approximate length is 2688 LF

|           |                                                            |       |   |          |    |
|-----------|------------------------------------------------------------|-------|---|----------|----|
| 079-22420 | 3/4" Strapping .0236" THK<br>Oscillate Wound Painted Black | rolls | 1 | can vary | 16 |
|-----------|------------------------------------------------------------|-------|---|----------|----|

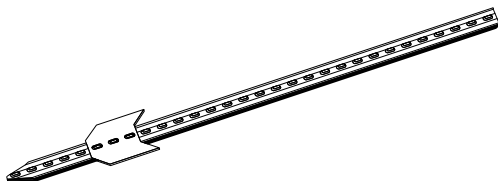
■ Approximate length is 1780 LF

## METAL SEAL



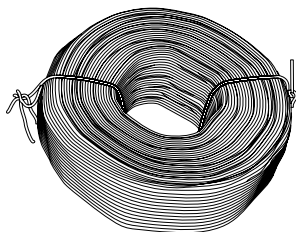
| PART #    | DESCRIPTION           | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|-----------|-----------------------|------|---------|-----------|-----------|
| 079-41650 | 1/2" Open Seal        | box  | 2,500   | 20        | N/A       |
| 079-42450 | 3/4" Open Seal        | box  | 2,500   | 25        | N/A       |
| 079-52420 | 3/4" Semi Open Seal   | box  | 2,000   | 23        | N/A       |
| 079-54010 | 1-1/4" Semi Open Seal | box  | 1,000   | 53        | N/A       |

## T-POSTS



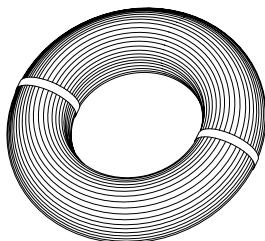
| PART #   | DESCRIPTION | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------|------|---------|-----------|-----------|
| 098-0005 | 5ft T-post  | each | 1       | 6.2       | 100       |
| 098-0006 | 6ft T-post  | each | 1       | 7.5       | 100       |

## 16-GAUGE REBAR TIE WIRE



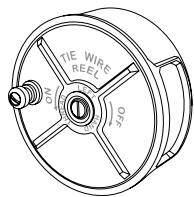
| PART #   | DESCRIPTION                   | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|-------------------------------|------|---------|-----------|-----------|
| 080-0001 | Rebar Tie Wire (20/box)       | box  | 1       | 70        | 24        |
| 080-2201 | Epoxy Rebar Tie Wire (20/box)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

## 9-GAUGE REBAR TIE WIRE



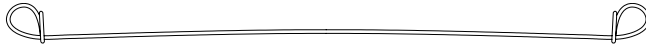
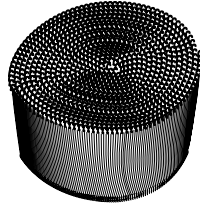
| PART #    | DESCRIPTION                      | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|-----------|----------------------------------|------|---------|-----------|-----------|
| 082-00905 | 9-Gauge Rebar Tie Wire 50# Roll  | ea   | 1       | 50        | 20        |
| 082-00910 | 9-Gauge Rebar Tie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

## WIRE REEL



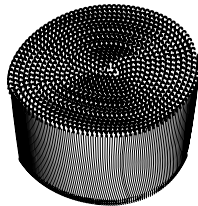
| PART #   | DESCRIPTION        | UNIT | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------------|------|---------|-----------|-----------|
| 182-1001 | Aluminum Wire Reel | each | 1       | 2         | N/A       |

## 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        |

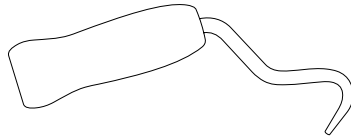
## 16-GAUGE EPOXY COATED ANNEALED BAR TIES



| 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        |

## 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     |



## 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



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## 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.

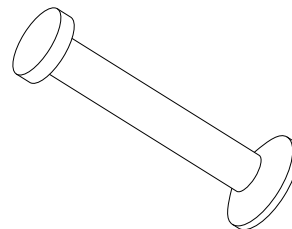
Capacities range from 1 to 25 tons



## 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.



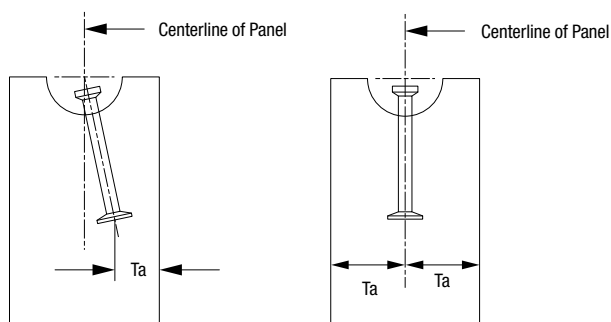
safety factor rating

**4.0-to-1**

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

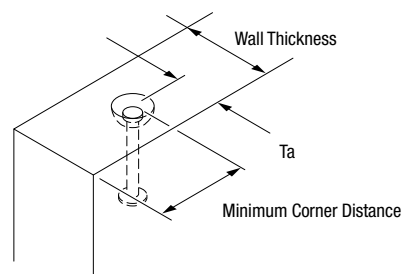
■ Tables are based on full shear cone values developed in 3,000 PSI normal weight concrete.

## 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.

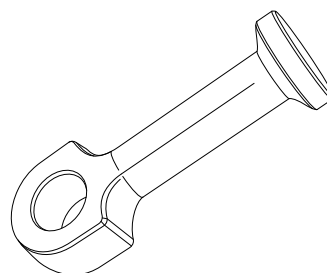
The DB Lift Anchor must be located a minimum distance from the edge of the concrete element (see table on page 57). Use a chair or tie the anchor to the reinforcement steel to assure proper positioning of the anchor.



| ANCHOR<br>(TON & LENGTH) | CRITICAL<br>WALL THICKNESS | ACTUAL EDGE<br>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.

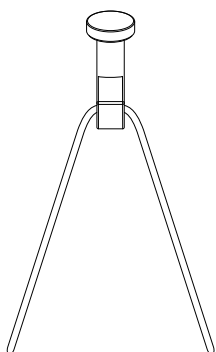


safety factor rating **4.0-to-1**

| PART #<br>PLAIN | PART #<br>GALVANIZED | ANCHOR CAPACITY<br>(TONS) | LENGTH | SWL TENSION W/V<br>(LBS.) | MIN. PANEL THICKNESS | MIN. EDGE DISTANCE | MIN. ANCHOR SPACING | WEIGHT<br>(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

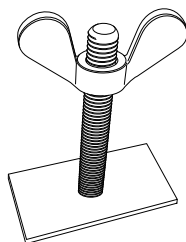
## TENSION BAR CHART FOR EYE ANCHOR



| ANCHOR<br>CAPACITY<br>(TONS) | REBAR<br>SIZE | REBAR<br>LENGTH | REBAR SPREAD<br>AT BASE | REBAR<br>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 NC threaded stud is not removable, therefore considerations must be taken prior to pouring and stripping of concrete element.

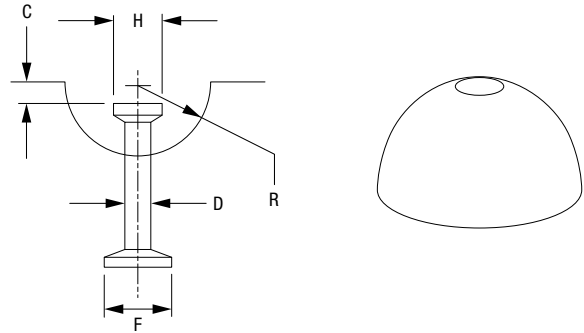


| PART     | CAPACITY<br>(TONS) | DIAMETER | WEIGHT<br>(LBS.) |
|----------|--------------------|----------|------------------|
| 283-0110 | 1T                 | 5/16" NC | 0.10             |
| 283-0210 | 2T                 | 5/16" NC | 0.15             |
| 283-0410 | 4T                 | 5/16" NC | 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          |

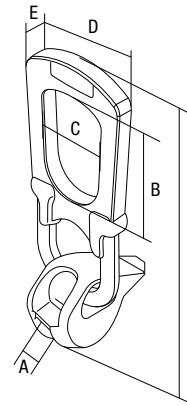
## DB LIFTING CLUTCH

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**

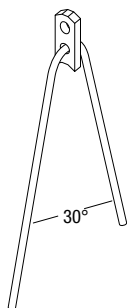


| PART #   | LIFTING BODY ID. | SAFE WORKING LOAD (TONS) (LBS.) |        | A     | B     | C     | D     | E     | L      | WEIGHT (LBS.) |
|----------|------------------|---------------------------------|--------|-------|-------|-------|-------|-------|--------|---------------|
| 240-0100 | 1-1.3T           | 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-to-10T****TENSION BAR  
LOAD CHART**

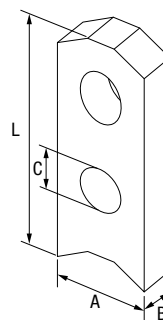
| CONCRETE<br>STRENGTH (PSI) | LOAD GROUP<br>(TONS) | REBAR SIZE # | TOTAL TENSION<br>BAR STRENGTH (L) |
|----------------------------|----------------------|--------------|-----------------------------------|
| 1,500                      | 2-2.5                | 4            | 3'-0"                             |
| 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**



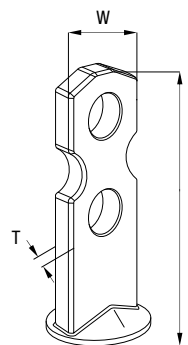
| PART #<br>PLAIN | PART #<br>GALVANIZED | ANCHOR TONNAGE<br>(TONS) | CLUTCH ID. | LENGTH (L) | WIDTH (A) | THICKNESS (B) | HOLE DIA. (C) | SWL 4:1 TENSION<br>(LBS.) | WEIGHT<br>(LBS.) |
|-----------------|----------------------|--------------------------|------------|------------|-----------|---------------|---------------|---------------------------|------------------|
| 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 #<br>PLAIN | PART #<br>GALVANIZED | ANCHOR SIZE | CLUTCH ID<br>(TONS) | LENGTH (L)<br># | WIDTH (W) | THICKNESS (T) | FOOT DIA. | SWL TENSION | WEIGHT<br>(LBS.) | (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             |        |

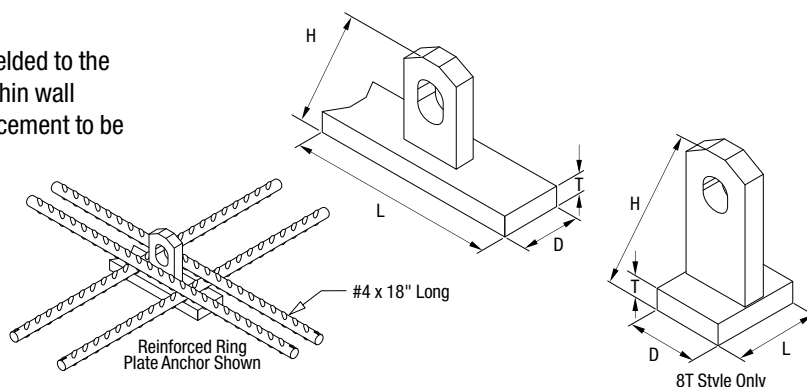
- For Tension Bar information refer to table "Tension Bar" on page 60
- Loads based on 4:1 safety factor and minimum capacity strength of 3,500 PSI concrete



## 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       | <b>2.5T-to-8T</b> |
| safety factor rating | <b>4.0-to-1</b>   |



| PART #<br>PLAIN | PART #<br>GALVANIZE | ANCHOR | LENGTH (L) | HEIGHT (H) | WIDTH (D) | THICKNESS (T) | MIN. PANEL<br>THICKNESS | MIN. EDGE<br>THICKNESS | SWL UNREINFORCED<br>(LBS.) | SWL REINFORCED<br>(LBS.) | CLUTCH | WT<br>(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     |

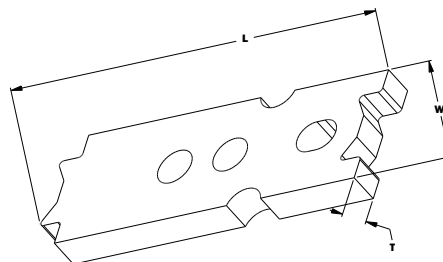
■ 4,000 PSI normal weight concrete

■ **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 | <b>2T-to-10T</b> | safety factor rating | <b>4.0-to-1</b> |
|----------------|------------------|----------------------|-----------------|

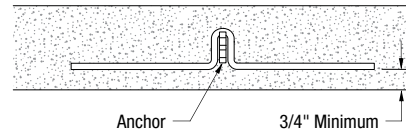


| PART #<br>PLAIN | PART #<br>GALVANIZED | ANCHOR TONNAGE | CLUTCH ID.<br>(TONS) | LENGTH (L) | WIDTH (W) | THICKNESS (T) | SWL 4:1 TENSION W/ BARS | WEIGHT<br>(LBS.) | BOX QTY<br>(LBS.) |
|-----------------|----------------------|----------------|----------------------|------------|-----------|---------------|-------------------------|------------------|-------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

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

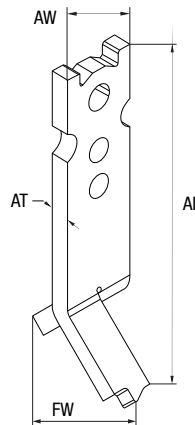
## SHEAR BAR

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

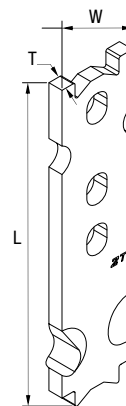


| PART # GALVANIZED | ANCHOR TONNAGE (TONS) | CLUTCH ID. | LENGTH (L) (AL) | WIDTH (W) (AW) | THICKNESS (T) (AT) | FOOT WIDTH (FW) | WEIGHT (LBS.) | BOX QTY |
|-------------------|-----------------------|------------|-----------------|----------------|--------------------|-----------------|---------------|---------|
| 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.

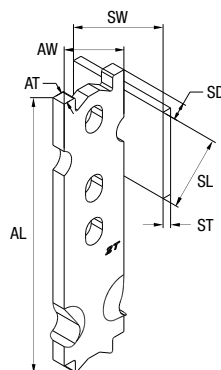
safety factor rating **4.0-to-1**

| ANCHOR TONNAGE<br>(TONS X LENGTH) | CLUTCH<br>ID. | PANEL THICKNESS | SHEAR LOAD W/ SHEAR BAR<br>(LBS.) | TENSION LOAD W/O TENSION BAR<br>(LBS.) | TENSION LOAD WITH TENSION BAR<br>(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 #<br>PLAIN | PART #<br>GALVANIZED | ANCHOR TONNAGE<br>(TONS) | CLUTCH<br>ID. | LENGTH<br>(AL) | WIDTH<br>(AW) | THICKNESS<br>(AT) | S.P. LENGTH<br>(SL) | S.P. WIDTH<br>(SW) | S.P. DEPTH<br>(SD) | S.P. THICKNESS<br>(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"      |

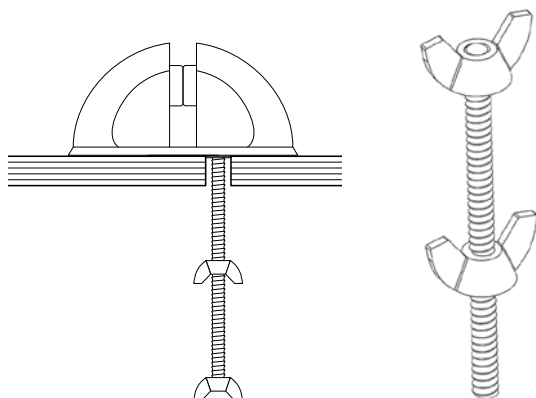
## X-FOOT ERECTION ANCHOR WITH SHEAR PLATE LOAD TABLE

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                             |

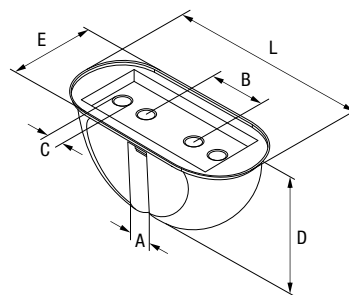
## BOLT & WING NUT ASSEMBLY



| PART #   | SYSTEM (TONS) | OVERALL LENGTH | THREAD DIAMETER | WEIGHT (LBS.) |
|----------|---------------|----------------|-----------------|---------------|
| 284-0411 | 2T-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.

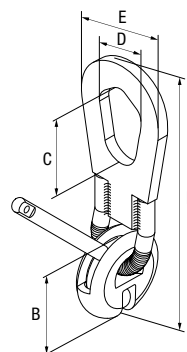


| PART #   | RING CLUTCH (TONS) | CLUTCH ID. | LENGTH (L) | HEIGHT (D) | WIDTH (E) | SLOT WIDTH (A) | HOLE DIST. (B) | HOLE DIA. (C) | WEIGHT (LBS.) |
|----------|--------------------|------------|------------|------------|-----------|----------------|----------------|---------------|---------------|
| 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        |

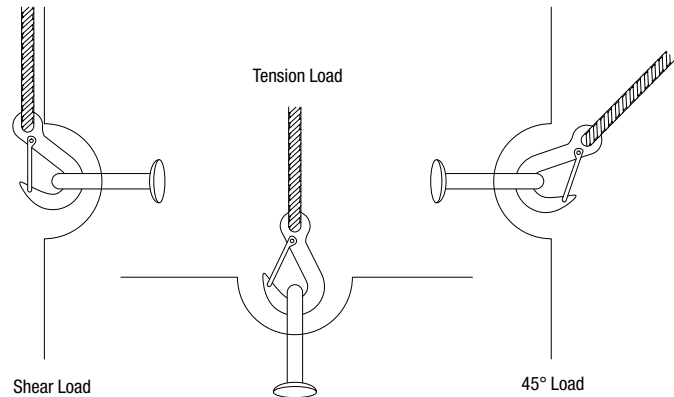
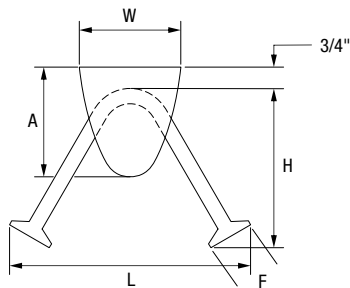
## UT LIFT SYSTEM

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 #<br>PLAIN | PART #<br>GALVANIZED | SLAB THICKNESS | H      | L        | D     | F      | WEIGHT<br>(LBS.) | SHEAR LOAD (SWL)<br>(LBS.) | 45° LOAD (SWL)<br>(LBS.) | TENSION LOAD (SWL)<br>(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                       |

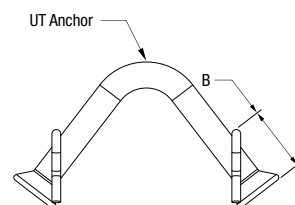
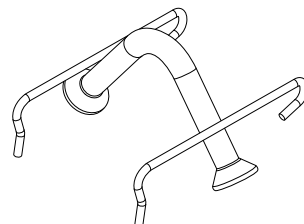
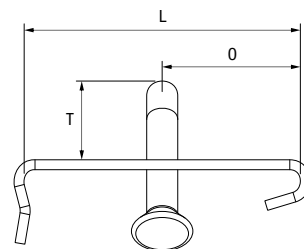
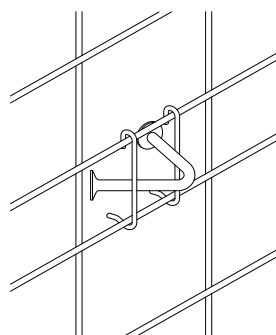
■ Loads based on 4:1 safety factor and minimum concrete capacity strength of 4,000 PSI with a full shear cone

## UT LIFT ANCHOR WITH CLIP

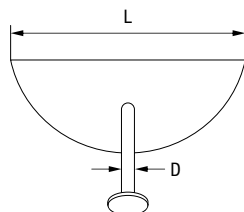
The UT Anchor with Clip is designed to eliminate bolting the recess former to the formwork. The specially designed clip allows the anchor to be attached to the formwork without the need for any attachment hardware. The location of the clip decides the amount of pressure the former presses against the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



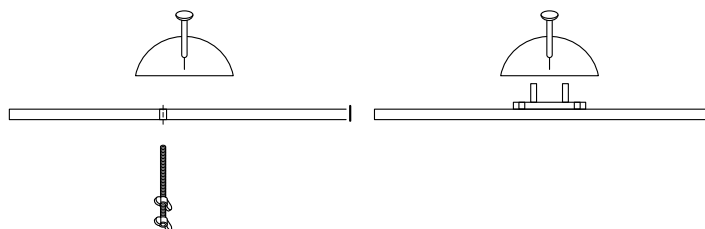
## UT RECESS FORMER



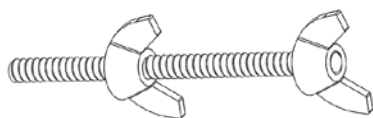
| PART #   | LENGTH (L) | WIDTH (W) | HEIGHT (A) | ANCHOR DIA (D) | COLOR ID. | WEIGHT (LBS.) |
|----------|------------|-----------|------------|----------------|-----------|---------------|
| 294-4500 | 8"         | 3"        | 3-1/4"     | 0.45"          | Orange    | 1.1           |
| 294-6700 | 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

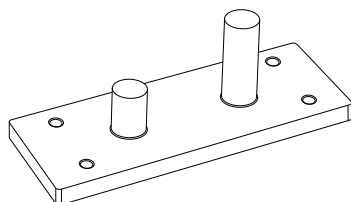


## BOLT & WING NUT ASSEMBLY



| PART #   | SYSTEM (TONS) | OVERALL LENGTH | THREAD DIAMETER | WEIGHT (LBS.) |
|----------|---------------|----------------|-----------------|---------------|
| 284-0411 | 2T-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          |

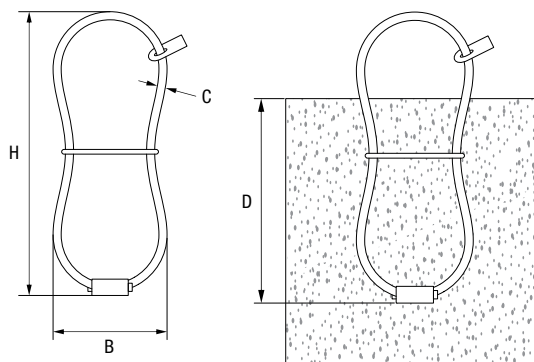
## CABLE LOOP ANCHOR

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

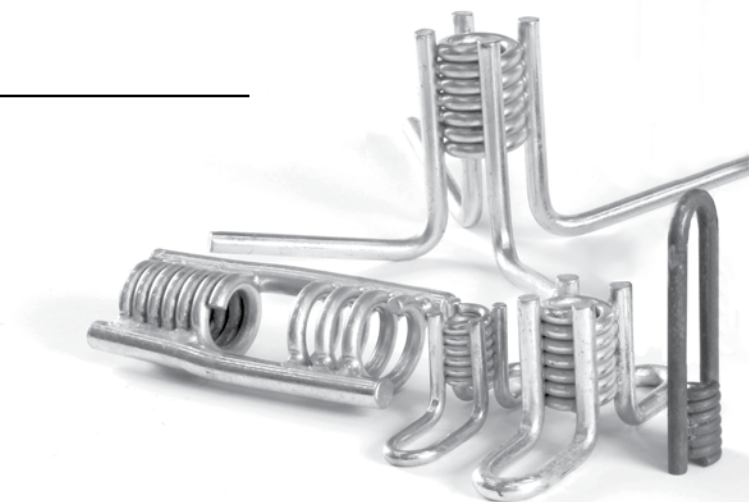


| PART #   | DESCRIPTION            | SWL<br>(LBS.) | H     | B     | C      | D     | TAG COLOR  | WEIGHT<br>(LBS.) |
|----------|------------------------|---------------|-------|-------|--------|-------|------------|------------------|
| 236-0080 | 0.8T Cable Loop Anchor | 1,600         | 8"    | 3.75" | 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             |



## COIL INSERTS

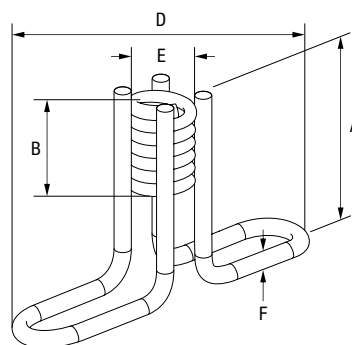
### LIFTING AND HANDLING INSERTS



## THIN SLAB COIL INSERT

The Thin Slab Coil Insert is designed for use in thin slab elements where standard length inserts will not fit.

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



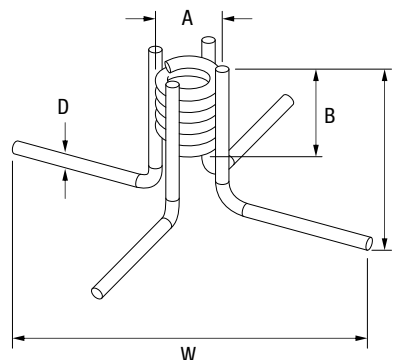
| PART #<br>PLAIN | PART #<br>GALVANIZE | BOLT DIA. | HEIGHT (A) | SWL TENSION<br>(LBS.) | COIL DIA. (E) | COIL LENGTH (B) | WIER DIA. (F) | LENGTH (D) | MIN. EDGE DISTANCE | WEIGHT<br>(LBS.) | BOX QTY |
|-----------------|---------------------|-----------|------------|-----------------------|---------------|-----------------|---------------|------------|--------------------|------------------|---------|
| 197-0402        | 197-0412            | 1/2"      | 1-3/4"     | 950                   | 1-1/4"        | 1-1/8"          | .225"         | 4-1/2"     | 4"                 | 0.26             | 120     |
| 197-0602        | 197-0612            | 3/4"      | 2-1/4"     | 2,000                 | 1-5/8"        | 1-5/8"          | .306"         | 5"         | 5"                 | 0.56             | N/A     |
| 197-0604        | 197-0614            | 3/4"      | 3-1/2"     | 3,400                 | 2"            | 2"              | .306"         | 6"         | 6"                 | 0.67             | 50      |
| 197-0802        | 197-0812            | 1"        | 2-5/16"    | 2,000                 | 2"            | 2"              | .306"         | 6"         | 5"                 | 0.79             | N/A     |
| 197-0805        | 197-0815            | 1"        | 4-1/2"     | 4,750                 | 2"            | 2"              | .306"         | 6"         | 8"                 | 0.97             | N/A     |

■ 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**



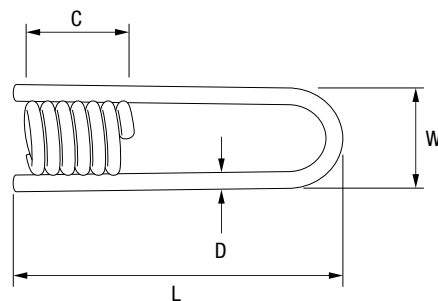
| PART #<br>PLAIN | PART #<br>GALVANIZE | BOLT DIA. | INSERT LENGTH (L) | COIL DIA. (A) | COIL HEIGHT (B) | WIRE DIA. (D) | LEG LENGTH (W) | SWL TENSION<br>(LBS.) | WEIGHT<br>(LBS.) |
|-----------------|---------------------|-----------|-------------------|---------------|-----------------|---------------|----------------|-----------------------|------------------|
| 195-0603        | 195-0613            | 3/4"      | 3"                | 1-3/4"        | 1-5/8"          | .375"         | 7-1/8"         | 2,500                 | 0.70             |
| 195-0804        | 195-0814            | 1"        | 4"                | 2-1/16"       | 1-7/8"          | .375"         | 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

## 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**



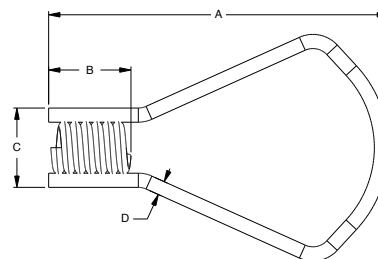
| PART #<br>PLAIN | PART #<br>GALVANIZE | BOLT DIA. | LENGTH (L) | WIDTH (W) | THREAD (T)  | COIL LENGTH (C) | WIRE DIA. (D)<br>(LBS.) | SWL TENSION<br>(LBS.) | WEIGHT |
|-----------------|---------------------|-----------|------------|-----------|-------------|-----------------|-------------------------|-----------------------|--------|
| 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**



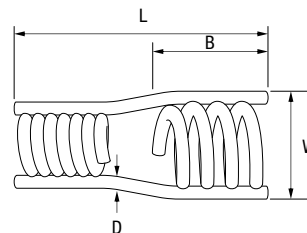
| PART #<br>PLAIN | PART #<br>GALVANIZE | BOLT DIA. | LENGTH (A) | COIL LENGTH (B) | COIL WIDTH (C) | WIRE DIA. (D) | HEIGHT (E) | SWL TENSION<br>(LBS.) | WEIGHT<br>(LBS.) |
|-----------------|---------------------|-----------|------------|-----------------|----------------|---------------|------------|-----------------------|------------------|
| 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

## 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**



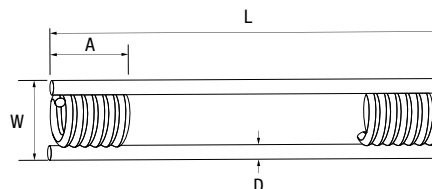
| PART #<br>PLAIN | PART #<br>GALVANIZE | BOLT DIA. | INSERT LENGTH (L) | SAFE WORKING LOAD (LBS.)<br>TENSION | SAFE WORKING LOAD (LBS.)<br>SHEAR | NO. STRUTS | WIRE DIA. (D) | COIL WIDTH (W) | OPEN COIL LENGTH (B) | WEIGHT (LBS.) |
|-----------------|---------------------|-----------|-------------------|-------------------------------------|-----------------------------------|------------|---------------|----------------|----------------------|---------------|
| 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**



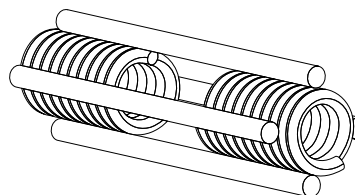
| PART #<br>PLAIN | PART #<br>GALVANIZE | BOLT DIA. | INSERT LENGTH (L) | COIL LENGTH (A) | COIL WIDTH (W) | WIRE DIA. (D) | SWL TENSION (LBS.) | EDGE DIST. | WEIGHT (LBS.) |
|-----------------|---------------------|-----------|-------------------|-----------------|----------------|---------------|--------------------|------------|---------------|
| 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<br>PLAIN | PART<br>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

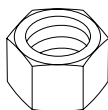


| PART #   | DESCRIPTION              | UNIT   | WGT. EA. | SOLD AS | UNIT WGT. | SKID QTY. |
|----------|--------------------------|--------|----------|---------|-----------|-----------|
| 190-0116 | 1/2" Dia. x 12' Coil Rod | bundle | 7.22     | 10      | 73        | 200       |
| 190-0124 | 3/4" Dia.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

■ Cut sizes available

## COIL NUT

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

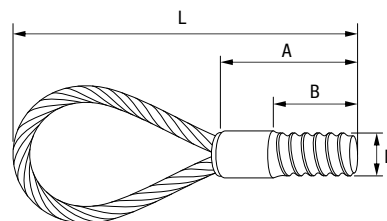


| PART #   | DESCRIPTION               | WEIGHT EACH |
|----------|---------------------------|-------------|
| 190-0216 | 1/2" Coil Rod Nut (Std)   | 0.07        |
| 190-0220 | 5/8" Coil Rod Nut (Std)   | 0.11        |
| 190-0224 | 3/4" Coil Rod Nut (Std)   | 0.13        |
| 190-0228 | 7/8" Coil Rod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

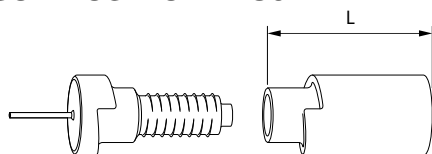
safety factor rating **5.0-to-1**



| 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

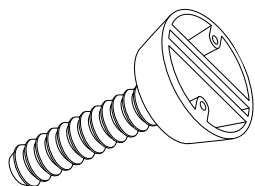
## PLASTIC COIL LOCATOR PLUG



| 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            |

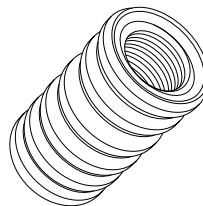
## FERRULE INSERTS

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".

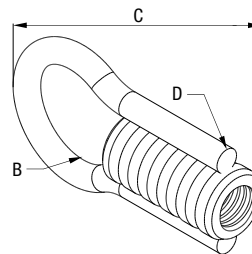


| PART #<br>PLAIN | BOLT DIA. | THREAD<br>PITCH | MIN. BOLT ENGAGEMENT | LENGTH | FERRULE DIA. | WEIGHT<br>(LBS.) | BOX QTY<br>EA. |
|-----------------|-----------|-----------------|----------------------|--------|--------------|------------------|----------------|
| 214-1200        | 3/8"      | 16              | 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.

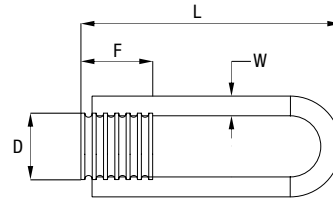
■ SWL based on 1/2" set-back from concrete surface. Minimum concrete strength of 3,000 psi normal weight concrete.



| PART #<br>PLAIN | PART #<br>ELECTRO-PLATED | BOLT DIA. | SWL TENSION<br>(LBS.) | LENGTH<br>(C) | FERRULE LENGTH | FERRULE DIA. | INSIDE RADIUS<br>(B) | WIRE DIA.<br>(D) | WEIGHT<br>(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.



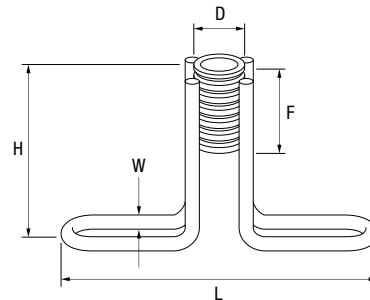
| PART #<br>PLAIN | PART #<br>GALVANIZED | BOLT DIA. | LENGTH (L) | SWL TENSION<br>(LBS.) | FERRULE DIA. (D) | FERRULE LENGTH (F) | WIRE DIA. (W) | MIN. EDGE DISTANCE | WEIGHT<br>(LBS.) |
|-----------------|----------------------|-----------|------------|-----------------------|------------------|--------------------|---------------|--------------------|------------------|
| 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.

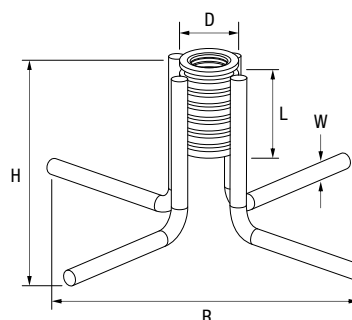


| PART #<br>PLAIN | PART #<br>GALVANIZED | BOLT DIA. | HEIGHT (H) | LENGTH (L) | SWL TENSION<br>(LBS.) | FERRULE DIA. (D) | FERRULE LENGTH (F) | WIRE DIA. (W) | MIN. EDGE DISTANCE | WEIGHT<br>(LBS.) |
|-----------------|----------------------|-----------|------------|------------|-----------------------|------------------|--------------------|---------------|--------------------|------------------|
| 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.

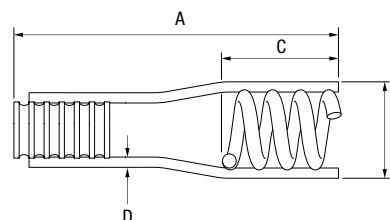


| PART #<br>PLAIN | PART #<br>GALVANIZED | BOLT DIA. | HEIGHT (H) | SWL TENSION<br>(LBS.) | FERRULE DIA. (D) | LEG LENGTH (R) | FERRULE LENGTH (L) | WIRE DIA. (W) | MIN. EDGE DISTANCE | WEIGHT<br>(LBS.) |
|-----------------|----------------------|-----------|------------|-----------------------|------------------|----------------|--------------------|---------------|--------------------|------------------|
| 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.

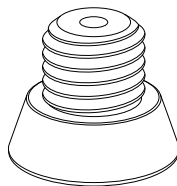


safety factor rating

**4.0-to-1**

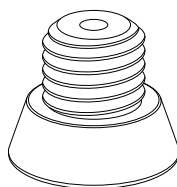
| PART #<br>PLAIN | PART #<br>ELECTRO-PLATED | BOLT DIA. | INSERT LENGTH (A) | TENSION<br>(LBS.) | SHEAR<br>(LBS.) | NO. STRUTS | WIRE DIA. (D) | OPEN COIL DIA. (B) | OPEN COIL LENGTH (C) | WEIGHT<br>(LBS.) |
|-----------------|--------------------------|-----------|-------------------|-------------------|-----------------|------------|---------------|--------------------|----------------------|------------------|
| 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**

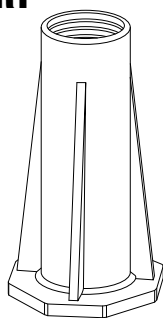
| PART #   | BOLT DIA. | THREAD PITCH | WEIGHT EA. |
|----------|-----------|--------------|------------|
| 282-0800 | 1/4"      | 20           | .0005      |
| 282-1200 | 3/8"      | 16           | .0007      |
| 282-1600 | 1/2"      | 13           | .0008      |
| 282-2000 | 5/8"      | 11           | 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**

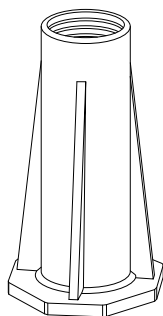
| PART #   | BOLT DIA. | THREAD PITCH | WEIGHT EA. |
|----------|-----------|--------------|------------|
| 281-0800 | 1/4"      | 20           | 0.02       |
| 281-1200 | 3/8"      | 16           | 0.03       |
| 281-1600 | 1/2"      | 13           | 0.05       |
| 281-2000 | 5/8"      | 11           | 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**

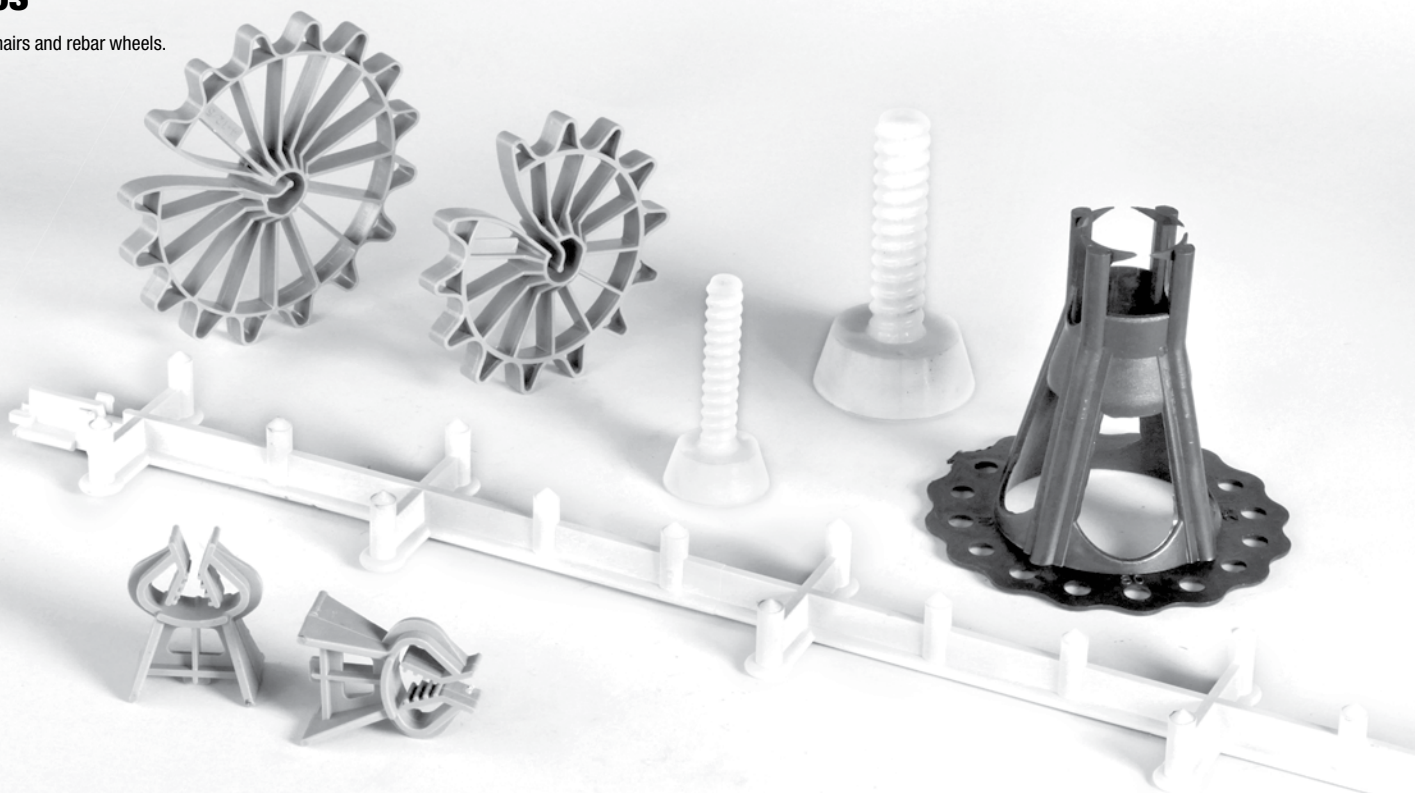
| PART #   | BOLT DIA. | INSERT LENGTH | SWL TENSION | WEIGHT EA. |
|----------|-----------|---------------|-------------|------------|
| 288-0801 | 1/4"      | 1-1/2"        | 750         | 0.04       |
| 288-1201 | 3/8"      | 1"            | 1,200       | 0.05       |
| 288-1202 | 3/8"      | 1-3/8"        | 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.

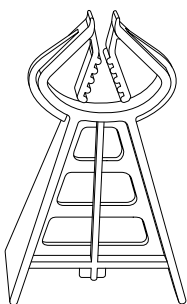


## PLASTICS

Bar supports, chairs and rebar wheels.

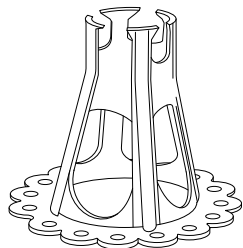


### GP REBAR CLIP

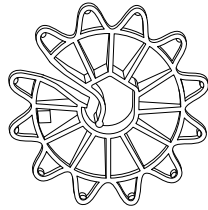


| PART #   | CONCRETE COVER | BAR SIZE | WEIGHT (LBS.) | BOX QTY (CTN.) |
|----------|----------------|----------|---------------|----------------|
| 444-0480 | 3/4" Cover     | #3 - #6  | 8.8           | 2,000          |
| 444-0001 | 1" Cover       | #3 - #6  | 11.1          | 1,000          |
| 444-0320 | 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          |

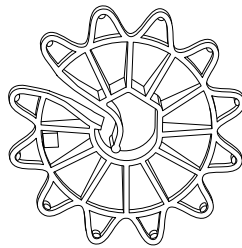
### TMP CHAIR WITH PLATE



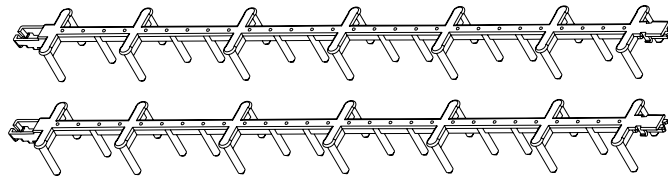
| PART #   | DESCRIPTION | CONCRETE COVER       | BAR SIZE | WEIGHT (LBS./CTN.) | BOX QTY |
|----------|-------------|----------------------|----------|--------------------|---------|
| 444-1002 | TMP 40/50   | 1-1/2 - 2" Cover     | #2 - #5  | 15                 | 500     |
| 444-1322 | TMP 50/60   | 2 - 2-1/2" Cover     | #2 - #5  | 18                 | 300     |
| 444-1163 | TMP70/80    | 2-3/4 - 3-1/4" Cover | #2 - #5  | 22                 | 300     |
| 444-1004 | TMP 90/100  | 3-1/2 - 4" Cover     | #2 - #5  | 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  | 250      |
| 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”

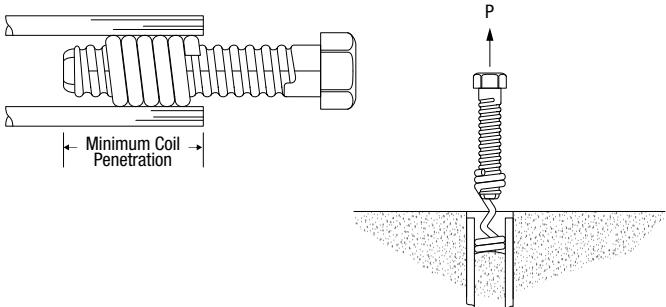
Hot-Dip Galvanize -

“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

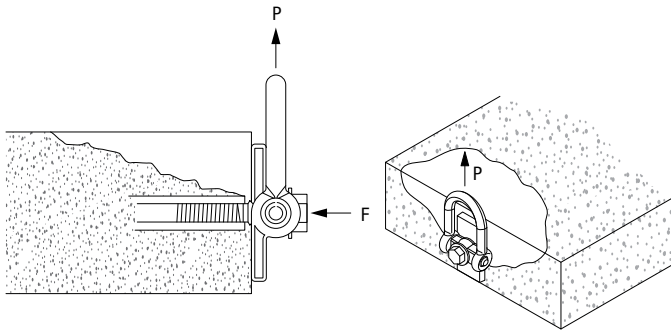
- 1) Failure to properly tighten a coil bolt can result in the inability of the coil bolt to fully penetrate the coil insert.
- 2) Excessive insert setback in the concrete can result in the inability of the coil bolt to fully penetrate the coil insert.
- 3) Worn threads on a coil bolt will render the 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 determine 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.

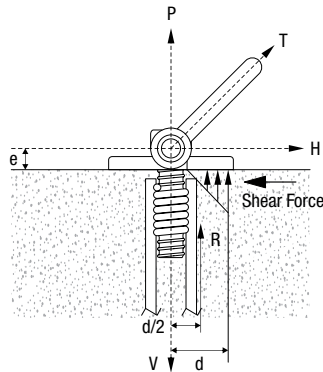
Total applied load = PT

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

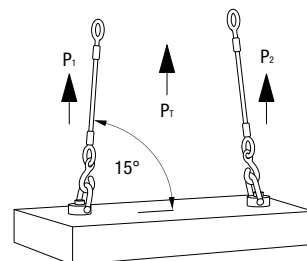
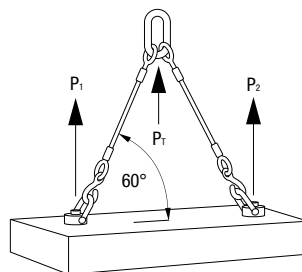
In this example, an insert with a safe working load greater than 6,000 lb. must be used.

### Inclined Slings

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

Reference the sketched examples:

1. The angle of  $60^\circ$  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  $15^\circ$  and from the table below, the load factor is 1.01.  
Therefore, P1 load = 1.01 x weight of the concrete



| SINGLE ANGLE $\beta$ | 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        |

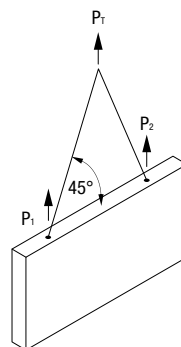
### Example 1 - Two Part Cable/Chain Sling Calculations

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  $45^\circ$ .

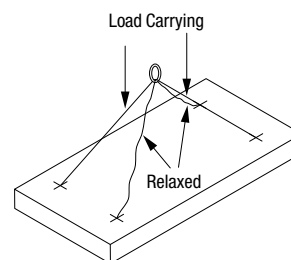
Concrete dead weight 8" / 8" X 3' X 12' X 150 lb. = 5,400 lb.  
Form adhesion (Steel Form) 8" / 8" X 12' X 25 lb. = 300 lb.  
Total Load (PT) = 5,700 lb.

Now apply the load factor for the  $45^\circ$  sling angle and realizing that  $P1 = P2 = PT$ , then  $P1 = 5,700/2 \times 1.08 = 3,078$  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

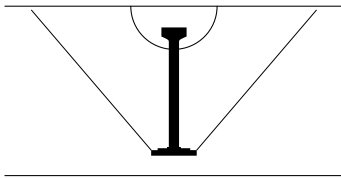
When four fixed length slings are used to lift and handle a concrete element, often one of the slings will be longer than the rest. This will force two of the embedded anchors to carry the total load and the other two anchors to do little more than keep the slab balanced.

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.



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

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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.

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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.

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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.

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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.

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- 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

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

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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.

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

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Customer hereby agrees to indemnify EMI for any costs, including attorney's fees, incurred by EMI as a result, in whole or in part, of any violation by Customer of any Federal, State or Local statute or regulation, or of any nationally accepted standard. It shall be Customer's sole responsibility to comply with all applicable laws and regulations regarding the handling, use transportation, or disposal of products upon taking possession of same.

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EMI will defend and hold harmless Purchaser of the products identified herein against charges of infringement of claims of United States patents issued at the time of acceptance of the order by EMI, provided such charges are based exclusively on alleged infringement by products designed and manufactured by EMI. Before this responsibility shall arise, EMI must be notified in writing and tendered the right to defend, settle or make changes for the purpose of avoiding infringement. Under no circumstances will EMI's total liability to Purchaser for damages incurred as a result of any patent infringement exceed that which is agreed to in the remedy clause stated herein.

**A**

|                   |    |
|-------------------|----|
| "A" Bracket       | 23 |
| Adapter Pin       | 18 |
| Aluminum Chutes   | 49 |
| Anchor Bolts      | 47 |
| Anchor Strap      | 48 |
| Angle Clips       | 39 |
| Annealed Bar Ties | 53 |

**B**

|                                     |            |
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| Base Ties                           | 37         |
| Bolt & Wing Nut Assembly            | 58, 66, 68 |
| Break Back Ties - 1"                | 37         |
| Break Off Tool                      | 33         |
| Brick Ledge Bracket - Steel/Plywood | 18         |
| Bulkhead Bar                        | 18         |

**C**

|                                  |            |
|----------------------------------|------------|
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| Cantilever Bracket               | 15         |
| Cap Clip - Aluminum              | 39         |
| Cap Clip - Steel/Plywood         | 13         |
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| Coil Bolts                       | 30-31      |
| Coil Loop Inserts                | 71         |
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| Coil Setting Plugs               | 73         |
| Coil Threaded Cable Lifting Loop | 73         |
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| Column Form                      | 10         |
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| Column Lifting Corner            | 11         |
| Combo Filler Pin                 | 39         |
| Continuous High Chair            | 44         |
| Continuous High Chair Upper      | 44         |
| Corner Clips                     | 34         |
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| Curved Wedge                     | 39         |
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**D**

|                             |    |
|-----------------------------|----|
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**E**

|                                              |    |
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**G**

|                          |    |
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| Gang Form Adapter Sleeve | 18 |
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| Gang Waler Plate         | 14 |
| Guide Bolt               | 16 |

**H**

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**I**

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**J**

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|--------------------------|----|

**L**

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**M**

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| Metal Seal     | 51 |
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**N**

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**O**

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**S**

|                                  |    |
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| Slurry Chutes                   | 49     |
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| Stacking Clips                  | 33     |
| Stacking Plate                  | 33     |
| Stacking Tie                    | 24     |
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|                                          |    |
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**T**

|                                    |        |
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|                          |    |
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**W**

|                                   |            |
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**X**

|                                         |    |
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| X-Foot Erection Anchor With Shear Plate | 64 |

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