

Fax to:

Customer

Approved/Notes

Pennsylvania Insert Corp

Fax#

Project

PO Box 199  
Spring City PA 19475

From

Job#

Ship Date

tel: 610-948-9688

fax: 610-948-4975

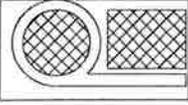
Date

PA Insert Quote/Order#

Page

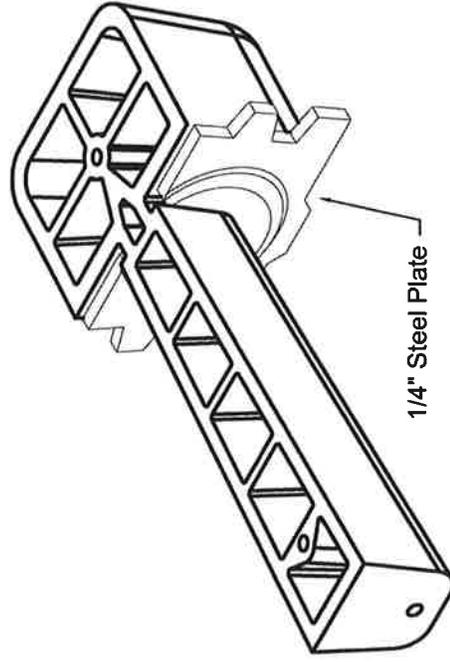
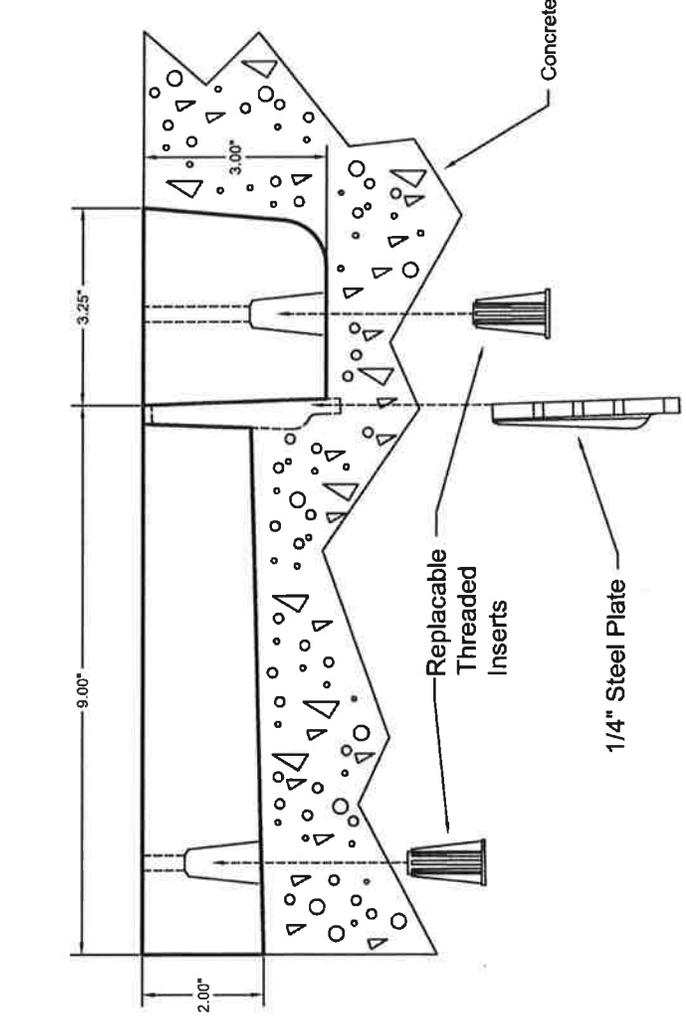
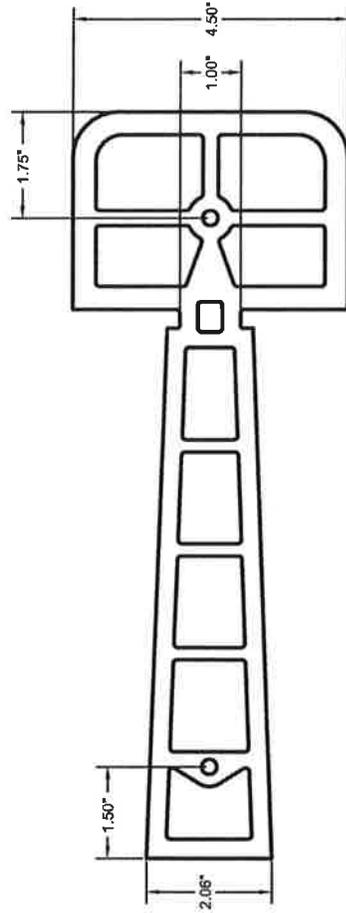
of

email: sales@pennsylvaniainsert.com  
web: www.pennsylvaniainsert.com



# BOLT POCKET FORMER (for up to 1" bolt)

- Made from durable Urethane for reusability
- Ribbed construction increases strength
- \*Replacable 1/4" Threaded Inserts
- \*\*1/4" Galvanized Steel Plate Standard
- Available with magnets to attach to form



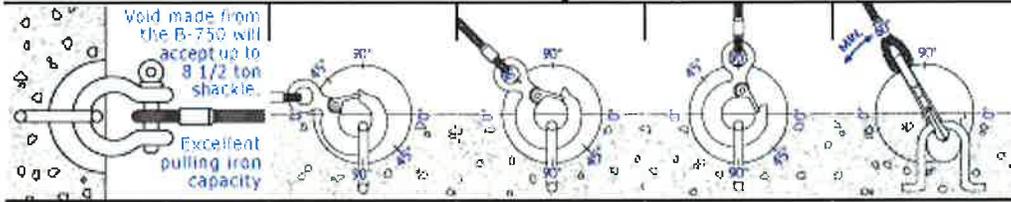
\*Threaded Inserts sold separately (Part Number 1200)

\*\*Steel Plate stays in concrete, sold separately (Part Number 4024)



PO Box 736 • Stevenson, CT 06491  
 www.oxfordtechusa.com  
 Phone: (203) 268-6030  
 Fax: (203) 445-1240  
 info@oxfordtechusa.com

**Oxford Lift System®**



| Anchor Product Code | Slab Min. Inches | Safe Working Load @ 90 degree Shear-0 degree Pull | Safe Working Load @ 90 degree Shear-45 degree Pull | Safe Working Load @ 90 degree Tension-90 degree Pull | Safe Working Load @ 90 degree Shear-60 degree Pull |
|---------------------|------------------|---|--|--|--|
| A 500-3             | 4.00"            | 4,500   | 4,000  | 3,500  | 4,000  |
| A 500-4             | 5.00"            | 8,000   | 5,500  | 4,000  | 5,000  |
| A 500-5             | 6.00"            | 10,500  | 6,500  | 5,000  | 5,500  |
| A 750-5             | 6.00"            | 12,500  | 8,000  | 7,000  | 7,000  |
| A 750-7             | 8.00"            | 15,000  | 12,500   | 10,000   | 10,000   |

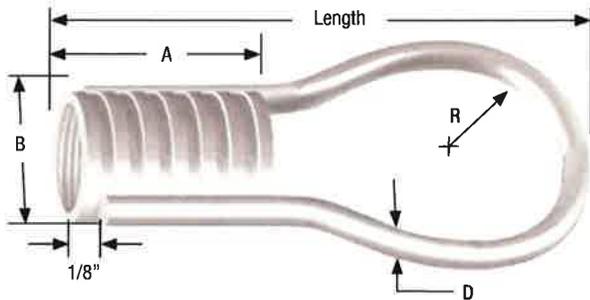
Note: Safe Working Load provides a factor of safety of approximately 4:1

Test Results are based on a minimum concrete compressive strength of 4,000 psi.

[<back](#) [next >](#)

|                    |                          |            |                           |                          |   |
|--------------------|--------------------------|------------|---------------------------|--------------------------|---|
| Home               | <b>B-500 &amp; B-750</b> | S-150      | S-300                     | Lift Anchor & Order Form | Concrete Products                           |
| Pull Iron Capacity | Anchors & Accessories    | Toggle-Lok | <b>Insert/Lift Anchor</b> | Grid-Lok/Rebar Chair     | Helpful Calculations<br><b>COMING SOON!</b> |

**FI-42: FLARED LOOP FERRULE INSERT**



Fabricated by welding a looped strut to a closed-end ferrule, this versatile insert is commonly used to make structural connections and to suspend pipes and other mechanical equipment. Available in 3/8", 1/2", 5/8", 3/4", 7/8" and 1" sizes. Insert available in plated finish.

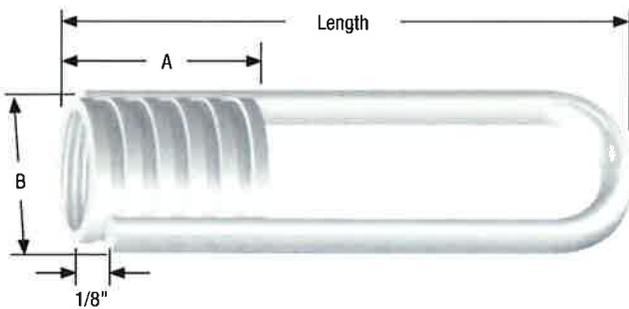
\*Standard inserts not designed for use with hot dip galvanized bolts.

**FLARED LOOP FERRULE INSERT DIMENSIONS AND LOAD CHART**

| Part Number | Bolt Diameter (N.C. Thread) | Threads per Inch (N.C.) | Length | A      | B       | R      | Wire Diameter D | Insert vUltimate Mechanical Capacity (lbs) | In-Concrete Capacity |                                     |
|-------------|-----------------------------|-------------------------|--------|--------|---------|--------|-----------------|--|----------------------|-------------------------------------|
|             |                             |                         |        |        |         |        |                 |  | Min. Edge Distance   | 3:1 Safe Working Load Tension (lbs) |
| FI4238P     | 3/8"                        | 16                      | 2-3/4" | 1-1/4" | 1"      | 9/16"  | 0.243"          | 6,000                                      | 5"                   | 2,000                               |
| FI4212P     | 1/2"                        | 13                      | 2-3/4" | 1-3/8" | 1-1/8"  | 9/16"  | 0.243"          | 6,000                                      | 5"                   | 2,000                               |
| FI4258P     | 5/8"                        | 11                      | 3-1/2" | 1-5/8" | 1-3/8"  | 13/16" | 0.262"          | 6,900                                      | 5"                   | 2,300                               |
| FI4234P     | 3/4"                        | 10                      | 3-1/2" | 1-5/8" | 1-5/8"  | 13/16" | 0.262"          | 7,500                                      | 5"                   | 2,500                               |
| FI4278P     | 7/8"                        | 9                       | 6"     | 1-5/8" | 2-1/16" | 1-3/8" | 0.375"          | 15,900                                     | 8"                   | 5,300                               |
| FI421P      | 1"                          | 8                       | 6"     | 1-5/8" | 2-1/16" | 1-3/8" | 0.375"          | 15,900                                     | 8"                   | 5,300                               |

- Safe working Load is based on 3,000 psi concrete and insert setback 1/2" from the concrete surface.
- Minimum spacing of inserts is 2 x (edge distance).

**FI-64: STRAIGHT LOOP FERRULE INSERT**



The Straight Loop Ferrule Insert is typically used to attach a precast wall panel to a building frame, as well as to provide attachment of other structural elements that may be required. Available in 1/2", 5/8", 3/4" and 1" sizes. Insert available in plated finish.

\*Standard inserts not designed for use with hot dip galvanized bolts.

**STRAIGHT LOOP FERRULE INSERT DIMENSIONS AND LOAD CHART**

| Part Number | Bolt Diameter | Threads per Inch (N.C.) | Length | A      | B      | Wire Diameter D | Insert Ultimate Mechanical Capacity (lbs) | In-Concrete Capacity |                                     |
|-------------|---------------|-------------------------|--------|--------|--------|-----------------|---|----------------------|-------------------------------------|
|             |               |                         |        |        |        |                 |   | Min. Edge Distance   | 3:1 Safe Working Load Tension (lbs) |
| FI64124P    | 1/2"          | 13                      | 4-1/8" | 1-3/8" | 1-1/8" | 0.225"          | 9,000                                     | 5"                   | 3,000                               |
| FI64126P    | 1/2"          | 13                      | 6-1/8" | 1-3/8" | 1-1/4" | 0.306"          | 15,000                                    | 8"                   | 5,000                               |
| FI64584P    | 5/8"          | 11                      | 4-1/8" | 1-5/8" | 1-1/4" | 0.225"          | 9,000                                     | 5"                   | 3,000                               |
| FI64586P    | 5/8"          | 11                      | 6-1/8" | 1-5/8" | 1-5/8" | 0.375"          | 15,000                                    | 8"                   | 5,000                               |
| FI64344P    | 3/4"          | 10                      | 4-1/8" | 1-5/8" | 1-3/8" | 0.225"          | 9,000                                     | 5"                   | 3,000                               |
| FI64346P    | 3/4"          | 10                      | 6-1/8" | 1-5/8" | 1-3/4" | 0.375"          | 15,000                                    | 9"                   | 5,000                               |
| FI6416P     | 1"            | 8                       | 6-1/8" | 1-5/8" | 2-1/8" | 0.375"          | 15,000                                    | 9"                   | 5,000                               |

- Safe working Load is based on 3,000 psi concrete, 3:1 safety factor and insert setback 1/2" from the concrete surface.
- Minimum spacing of inserts is 2 x (edge distance).

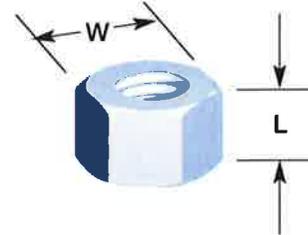
# Precast Products Manual

## Coil Lifting Insert Accessories

### (2060) CN-5 COIL NUT

The CN-5 Standard Coil Nut is manufactured from hex stock and is available in 1/2" through 1-1/2" diameters. Dimensions are displayed in the table.

The Standard Coil Nut safe working loads are based on an approximate 5:1 safety factor for lifting applications.



NOTE: Coil Nut – Heavy page 86

| CN-5 STANDARD COIL NUT DATA |               |                          |               |                       |                |                  |               |                         |               |
|-----------------------------|---------------|--------------------------|---------------|-----------------------|----------------|------------------|---------------|-------------------------|---------------|
| Bolt Size                   |               | Safe Work Load (Tension) |               |                       |                | Nut Length<br>L  |               | Width Across Flats<br>W |               |
|                             |               | One CN-5                 |               | Two CN-5 or One CN-25 |                |                  |               |                         |               |
| in.                         | mm            | lbs.                     | kN            | lbs.                  | kN             | in.              | mm            | in.                     | mm            |
| 1/2                         | 13            | 1800                     | 8             | 3600                  | 16             | 1/2              | 13            | 7/8                     | 22            |
| <del>3/4</del>              | <del>19</del> | <del>3600</del>          | <del>16</del> | <del>7200</del>       | <del>32</del>  | <del>5/8</del>   | <del>15</del> | <del>1 1/8</del>        | <del>28</del> |
| 1                           | 25            | 7200                     | 32            | 15,000                | 67             | 1                | 25            | 1 5/8                   | 41            |
| <del>1 1/4</del>            | <del>32</del> | <del>10,800</del>        | <del>48</del> | <del>22,500</del>     | <del>100</del> | <del>1 1/4</del> | <del>32</del> | <del>2</del>            | <del>50</del> |
| 1 1/2                       | 38            | 16,200                   | 72            | 27,000                | 120            | 1 1/2            | 38            | 2 3/8                   | 60            |

Table is based on a 5:1 safety factor for lifting applications.

1) Note that in order to achieve the published safe working loads of Coil Bolts, Coil Rods, etc., two (2) Standard Coil Nuts tightly locked together are required when using the Standard Coil Nut.

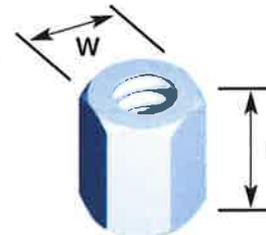
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*To Order, Specify: quantity, name and bolt diameter.*

### (2062) CN-25 COIL NUT – HEAVY

The CN-25 Heavy Coil Nut is manufactured from hex stock like the Standard Coil Nut, but is of sufficient length to develop the safe working load required for heavy form tying systems and precast lifting applications.

The Heavy Coil Nut safe working loads are based on an approximate 5:1 safety factor for lifting applications.



| CN-25 HEAVY COIL NUT DATA |    |                          |     |                 |    |                         |    |
|---------------------------|----|--------------------------|-----|-----------------|----|-------------------------|----|
| Bolt Size                 |    | Safe Work Load (Tension) |     | Nut Length<br>L |    | Width Across Flats<br>W |    |
|                           |    | Two CN-5 or One CN-25    |     |                 |    |                         |    |
| in.                       | mm | lbs.                     | kN  | in.             | mm | in.                     | mm |
| 1/2"                      | 13 | 3600                     | 16  | 1               | 25 | 7/8                     | 28 |
| 3/4"                      | 19 | 7200                     | 32  | 1 1/2           | 38 | 1 1/8                   | 28 |
| 1"                        | 25 | 15,000                   | 67  | 2               | 50 | 1 5/8                   | 41 |
| 1 1/4"                    | 32 | 22,500                   | 100 | 2 1/2           | 64 | 2                       | 50 |

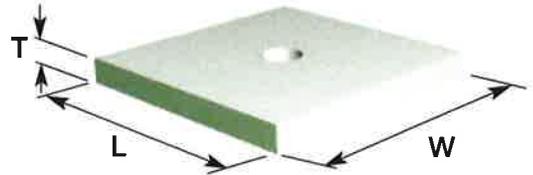
Table is based on a 5:1 safety factor for lifting applications.

*To Order, Specify: quantity, name and bolt diameter.*

### Coil Lifting Insert Accessories

#### (2080) CW-4 FLAT WASHER

The CW-4 Flat Washers are manufactured from high carbon flat steel plate and are designed to provide the required bearing against the form members. Flat Washers are available in many sizes in both standard and heavy versions. Refer to the table for dimensions and safe working loads.



Flat Washer Safe working loads are based on an approximate 5:1 safety factor for lifting applications.

| CW-4 FLAT WASHER DATA |               |                     |                |               |              |                |              |                |  |
|-----------------------|---------------|---------------------|----------------|---------------|--------------|----------------|--------------|----------------|--|
| Bolt Size             |               | Type                | T              |               | L            |                | W            |                |  |
| in.                   | mm            |                     | in.            | mm            | in.          | mm             | in.          | mm             |  |
| 1/2                   | 13            | Standard            | 1/4            | 6             | 4            | 100            | 3            | 75             |  |
| <del>3/4</del>        | <del>19</del> | <del>Standard</del> | <del>1/4</del> | <del>6</del>  | <del>4</del> | <del>100</del> | <del>5</del> | <del>125</del> |  |
| 1                     | 25            | Standard            | 1/2            | 13            | 5            | 125            | 5            | 125            |  |
| <del>1 1/4</del>      | <del>32</del> | <del>Standard</del> | <del>1/2</del> | <del>13</del> | <del>5</del> | <del>125</del> | <del>5</del> | <del>125</del> |  |
| 1 1/2                 | 38            | Standard            | 3/4            | 19            | 5            | 125            | 5            | 125            |  |
| 1/2                   | 13            | Heavy               | 1/4            | 6             | 4            | 100            | 5            | 125            |  |
| 3/4                   | 19            | Heavy               | 1/2            | 13            | 5            | 125            | 5            | 125            |  |
| 1                     | 25            | Heavy               | 3/4            | 19            | 7            | 175            | 7            | 175            |  |
| 1 1/4                 | 32            | Heavy               | 3/4            | 19            | 7            | 175            | 7            | 175            |  |
| 1 1/2                 | 38            | Heavy               | 3/4            | 19            | 7            | 175            | 7            | 175            |  |

To Order, Specify: quantity, name and bolt diameter.

#### (2102) CR-4 COIL ROD

CR-4 Continuous Coil Rod is manufactured and stocked in 12'-0" lengths. Special lengths are available up to 20'-0".

Requires minimum two (2) Standard CN-5 Coil Nuts or one (1) Heavy CN-25 Coil Nut to develop full safe work load. Minimum coil thread penetration is same as shown for coil bolts. See Table on page 88 to assure minimum coil penetration. May be cut with carborundum blades without thread damage. Do not use cutting torch to cut coil rod.



| CR-4 HI-STRENGTH CONTINUOUS COIL ROD SELECTION TABLE |               |                  |                |                  |               |
|--|---------------|------------------|----------------|------------------|---------------|
| Bolt Diameter  |               | Safe Work Load   |                |                  |               |
|  |               | Tension          |                | Shear            |               |
| in.  | mm.           | lbs.             | kN.            | lbs.             | kN.           |
| 1/2  | 13            | 3600             | 16             | 2400             | 11            |
| <del>3/4</del>                                       | <del>19</del> | <del>7200</del>  | <del>32</del>  | <del>4800</del>  | <del>21</del> |
| 1  | 25            | 15000            | 67             | 10000            | 44            |
| <del>1 1/4</del>                                     | <del>32</del> | <del>24000</del> | <del>107</del> | <del>18000</del> | <del>71</del> |
| 1-1/2  | 38            | 28000            | 124            | 18000            | 83            |

Table is based on a 5:1 safety factor for lifting applications.

To Order, Specify: quantity, name, bolt diameter and length.



# CELLULAR JOINT FILLER

## CLOSED-CELL GASKET MATERIAL

### What It Is

**CLOSED CELL JOINT FILLER** is a flexible, compressible material that easily fills difficult joints in concrete pipes and structures. Whether glued onto the joint or placed between the structures, it quickly conforms to the joint profile. **CLOSED CELL JOINT FILLER** can be supplied as cut and spliced gaskets or as bulk material for field fabrication of gaskets. It has excellent compressibility and is resistant to weather, ozone, acids, and alkalis.



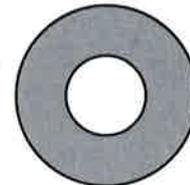
1" x 1" (25 x 25 mm)  
25 FT. (7.6 m) ROLLS



1" x 2" (25 x 50 mm)  
25 FT. (7.6 m) ROLLS



ROUND 3/8" (10 mm) WALL  
250 FT. (76.2 m) ROLLS



ROUND 1/2" (13 mm) WALL  
250 FT. (76.2 m) ROLLS

### Why It's Better

- Works with Round, Elliptical, and Arch Pipe.
- Works with Box Culverts and Manholes.
- Available in 25' (7.6 m) or 250' (76.2 m) rolls, or by the foot.
- Also available as cut and spliced gaskets.
- Manufactured of high-quality synthetic rubber.
- Easily compresses to fill irregular joints.
- Clean and easy to use.
- May be used in place of trowelable sealants.
- Easily cut and spliced in the field or in your yard.
- May be glued directly to the joint.

### How It Performs

**CLOSED CELL JOINT FILLER MATERIAL** meets or exceeds all requirements of:

**ASTM D-1056 - Flexible Cellular Materials - Sponge or Expanded Rubber**

Virginia and New York DOT approved. Complies with NYDOT Std. 706.17

RECTANGULAR CROSS-SECTIONS are made from a Neoprene/EPDM Blend.

CIRCULAR TUBING CROSS-SECTIONS are made from a Nitrile/PVC blend.

### Typical Physical Properties

|  |           |  |     |
|--|-----------|--|-----|
| Color .....                              | Black     | Water Absorption by Weight (Max.)..... | 10% |
| Compression Deflection (psi) .....       | 5 - 9     | Temperature Range (F)                  |     |
| Tensile Strength (psi Min.) .....        | 30        | Low (Flex without cracking) .....      | -70 |
| Elongation (%Min.) .....                 | 125       | High (Continuous) .....                | 150 |
| Resilience - Bashore (% rebound Average) |           | High (Intermittent) .....              | 200 |
| (1/2" thickness @ 72°F) .....            | 25 - 40   | Heat Aging (7 days @ 158°F)            |     |
| Shore 00 Durometer .....                 | 45 - 60   | Lineal Shrinkage (Max.) .....          | 10% |
| Density (pcf) average .....              | 5.5 - 7.5 |  |     |

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