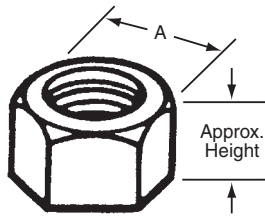
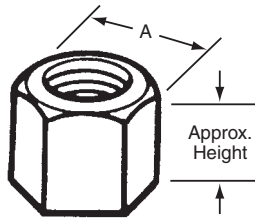


## B-13 Coil Nut and B-25 Heavy Coil Nut



**B-13 Standard Coil Nut**



**B-25 Heavy Coil Nut**

Dayton Superior B-13 Coil Nuts are available with coil threads in 1/2", 3/4", 1", 1-1/4" and 1-1/2" diameters. Dayton Superior B-25 Heavy Coil Nuts are available with coil threads in 1/2", 3/4", 1", and 1-1/4" diameters.

B-13 Coil Nut and B-25 Heavy Coil Nut Selection Chart					
Coil Nut Type	Dia.	Approx. Height	Width Across Flats A	Safe Working Load Tension (lbs.)	
				Using One B-13 Nut	Using Two B-13 Nuts or One B-25 Heavy Nut
B-13	1/2"	7/16"	7/8"	6,000	9,000
B-25	1/2"	1-3/16"	1-1/8"	–	9,000
B-13	3/4"	5/8"	1-1/8"	9,000	18,000
B-25	3/4"	1-3/16"	1-1/8"	–	18,000
B-13	1"	1"	1-5/8"	18,000	37,500
B-25	1"	2"	1-3/8"	–	37,500
B-13	1-1/4"	1-1/4"	2"	27,000	56,250
B-13	1-1/2"	1-1/2"	2-3/8"	40,500	67,500

SWL provides a factor of safety of approximately 2 to 1.

**To Order:**

Specify: (1) quantity, (2) name, (3) bolt diameter.

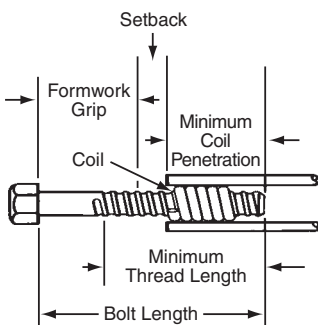
**Example:**

200 pcs. B-13 Coil Nut, 3/4".

## B-14 Coil Bolts

Dayton Superior B-14 Coil Bolts are designed for ease of use and durability. Coil bolts have fast acting, self-cleaning coil threads. B-14 Coil Bolts may be fabricated from ASTM A-307 blanks or from B-12 Coil Rod with welded B-13 Coil Nut heads.

Coil bolts are designed to be reusable, but they do wear and must be continuously inspected and replaced when wear or damage is noted. A waterproof grease should be applied to the portion of bolt that will be embedded in the concrete. This will facilitate bolt removal from the set concrete.



**Minimum Coil Penetration Information**

When determining the minimum required overall length of coil bolts, you must consider the following items:

- Formwork grip (including washer thickness).
- Setback of the form tie or insert.
- Minimum coil penetration (applies to all coil products).



**B-14 Coil Bolt**

**To Order:**

Specify: (1) quantity, (2) name, (3) bolt diameter, (4) length of bolt.

**Example:**

500 pcs. B-14 Coil Bolt, 3/4" diameter, 12" long.

See Chart on Page 63 for bolt selection and minimum bolt penetration.

B-14 Coil Bolt Selection and Minimum Coil Penetration Chart									
1/2" Dia.		3/4" Dia.		1" Dia.		1-1/4" Dia.		1-1/2" Dia	
Forged Hex Head		Forged Hex Head		Forged Hex Head		Forged Hex Head		Forged Hex Head	
Safe Work Load		Safe Work Load		Safe Work Load		Safe Work Load		Safe Work Load	
Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
Under 6" 4,125 lbs	Under 6" 2,750 lbs	9,000 lbs.	6,000 lbs.	18,000 lbs.	12,000 lbs.	27,000 lbs.	18,000 lbs.	41,250 lbs.	27,500 lbs.
6" & Over 6,750 lbs.	6" & Over 4,500 lbs.								
Minimum Coil Penetration 2"		Minimum Coil Penetration 2-1/4"		Minimum Coil Penetration 2-1/2"		Minimum Coil Penetration 2-1/2"		Minimum Coil Penetration 3"	
Minimum Root Area .1385 Sq. In.		Minimum Root Area .3079 Sq. In.		Minimum Root Area .5410 Sq. In.		Minimum Root Area .9161 Sq. In.		Minimum Root Area 1.3890 Sq. In.	
Threads per inch 6		Threads per inch 4-1/2		Threads per inch 3-1/2		Threads per inch 3-1/2		Threads per inch 3-1/2	
Bolt Length	Minimum Thread Length	Bolt Length	Minimum Thread Length	Bolt Length	Minimum Thread Length	Bolt Length	Minimum Thread Length	Bolt Length	Minimum Thread Length
3"	2-1/4"	3"	2-1/4"	3"	2"	3"	2"	—	—
4"	3-1/4"	4"	3-1/4"	4"	3"	4"	3"	4"	3"
5"	4-1/4"	5"	4-1/4"	5"	4"	5"	4"	5"	4"
6"	5"	6"	5"	6"	5"	6"	5"	6"	5"
Over 6"	5"	Over 6"	5"	Over 6"	5"	Over 6"	5"	Over 6"	5"

SWL provides a factor of safety of approximately 2 to 1.

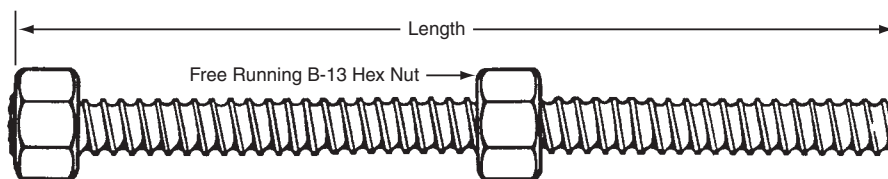
**Warning:** See Page 7 before using B-14 Coil Bolts.

## B-14-A Adjustable Coil Bolt

Dayton Superior B-14-A Adjustable Coil Bolt consists of a length of B-12 Coil Rod with a B-13 Coil Nut welded on one end and a free-running B-13 Coil Nut on the other end. The B-14-A allows formwork adjustments to be made with the free-running nut and can accommodate various form thickness as with one size adjustable bolt. This is especially useful in forming battered walls.

B-14-A Adjustable Coil Bolts are designed to be reusable, but they do wear and must be continuously inspected and replaced when wear or damage is noted. A waterproof grease should be applied to the portion of bolt that will be embedded in the concrete. This will facilitate bolt removal from the set concrete.

The safe working load of the B-14-A bolt is limited by the safe working load of the welded coil nut head.



**B-14-A Adjustable Coil Bolt**

B-14-A Adjustable Coil Bolt Selection Chart				
Diameter	Safe Working Load Tension (lbs.)	Safe Working Load Shear (lbs.)	Minimum Area (sq. in.)	Minimum Coil Penetration
1/2"	6,000	4,500	.1385	2"
3/4"	9,000	6,000	.3079	2-1/4"

SWL provides a factor of safety of approximately 2 to 1.

**Warning:** See Page 7 before using B-14 Coil Bolts.

**To Order:**

Specify: (1) quantity, (2) name, (3) diameter, (4) length.

**Example:**

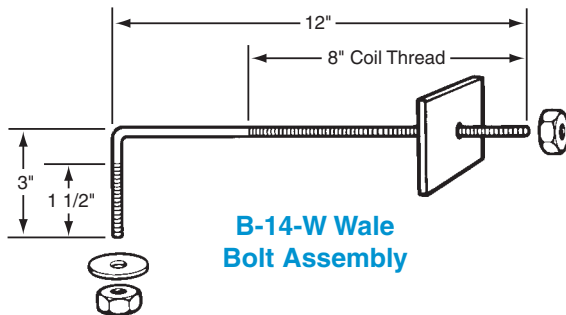
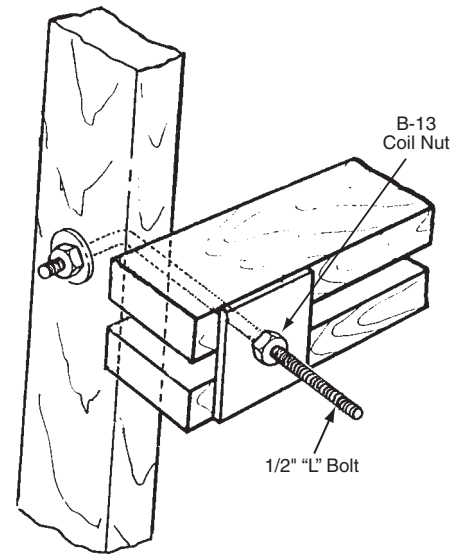
400 pcs. B-14-A Adjustable Coil Bolt, 1/2" diameter, 18" length.

## B-14-W Wale Bolt Assembly

Dayton Superior B-14-W Wale Bolt Assembly consists of a 1/2" "L" bolt, a round cut washer, a B-11 Flat Washer and two 1/2" B-13 Coil Nuts. The B-14-W assembly is used to fasten wales to crane-handled gang forms. One size assembly will secure wales up to 10" thick. The bolt has 8" of coil thread on the long end and 1-1/2" of coil thread on the short end.

The short end of the bolt is inserted through a 9/16" hole drilled through the center of the stud. The cut washer and 1/2" nut fastens the bolt to the stud. The long end of the bolt extends between the wales and allows the wales to be drawn tightly against the stud using a flat washer and the second 1/2" nut.

Wale Bolt Assemblies are normally spaced at four feet intervals along the wales. The safe working load of the assembly is dependent on the wale members being used.



**B-14-W Wale Bolt Assembly**

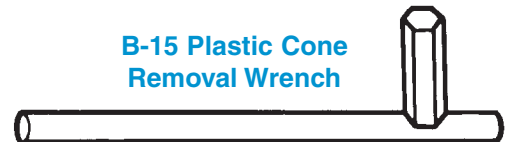
**To Order:**  
Specify: (1) quantity, (2) name.

**Example:**  
300 pcs. B-14-W Wale Bolt Assembly, complete with nuts and washers.

## B-15 Plastic Cone Removal Wrench

Dayton Superior B-15 Plastic Cone Removal Wrench is designed to remove the plastic cones from Screw-On Coil Ties. Available for 1/2", 3/4", 1" and 1-1/4" diameter cones.

**B-15 Plastic Cone Removal Wrench**



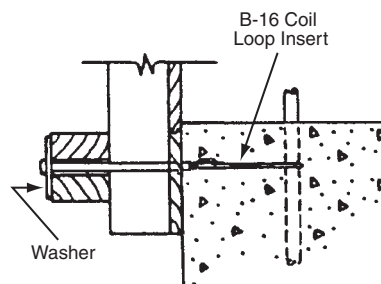
## B-16 Coil Loop Insert Straight

Dayton Superior B-16 Coil Loop Insert Straight is made of a single looped wire strut welded to a helix coil. B-16 inserts are available in 1/2", 3/4" and 1" nominal diameter standard or screw-on coil and in various standard lengths. The B-16 is also available in other than standard lengths and with a nailing washer face on special order.

B-16 Coil Loop Insert, Straight Selection Chart				
Bolt Diameter	Insert Length	Wire Strut Diameter	Safe Working Load Tension (lbs.)	Minimum Concrete Strength (psi)
1/2"	3"	.223	4,500	2,000
1/2"	4"	.223	4,500	2,000
1/2"	6"	.306	7,500	2,000
3/4"	4"	.223	4,500	2,000
3/4"	6"	.306	7,500	2,000
1"	6"	.306	7,500	2,000
1"	8"	.306	7,500	2,000



**B-16 Coil Loop Insert**



**To Order:**  
Specify:  
(1) quantity,  
(2) name,  
(3) diameter,  
(4) insert length

SWL provides a factor of safety of approximately 2 to 1. SWL may vary with concrete weight and strength, as well as with insert setback and edge distance. Contact the Dayton Superior Technical Service Department for variables.