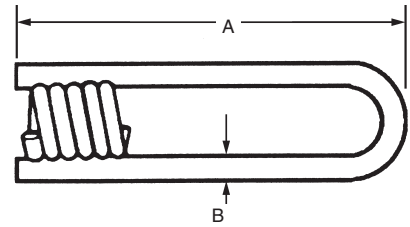


## B-16 Straight Coil Loop Insert

Although simple in design and fabrication, the B-16 Straight Coil Loop Insert is highly efficient for lifting and handling precast concrete elements. Standard inserts are shown in the chart. Special inserts for use with larger diameter coil bolts, or with loops having longer lengths and of heavier wire can be furnished, if required, on special order.



B-16 Straight Coil Loop Insert

B-16 Straight Coil Loop Insert Selection Chart							
Bolt Diameter	Insert Length	Minimum Edge Distance	Minimum Corner Distance	Safe Working Load Tension	Safe Working Load Shear	A	B
1/2"	3"	2"	5"	810 lbs.	200 lbs.	3"	0.223"
		3"	5"	1,310 lbs.	325 lbs.		
		5"	10"	1,950 lbs.	1,050 lbs.		
		10"	10"	1,950 lbs.	1,350 lbs.		
1/2" or 3/4"	4"	2"	5"	1,190 lbs.	200 lbs.	4"	0.223"
		3"	5"	1,910 lbs.	325 lbs.		
		5"	10"	1,950 lbs.	1,050 lbs.		
		8"	10"	1,950 lbs.	2,250 lbs.		
1/2" 3/4" or 1"	6"	2"	7"	1,420 lbs.	225 lbs.	6"	0.306"
		3"	7"	2,240 lbs.	425 lbs.		
		5"	7"	3,670 lbs.	775 lbs.		
		12"	12"	3,670 lbs.	3,750 lbs.		

### To Order:

Specify: (1) quantity, (2) name, (3) bolt diameter, (4) length, (5) finish.

### Example:

200, B-16 Straight Coil Loop Inserts, 1/2" dia. X 6" long, electro-plated finish.

Safe Working Loads are based on 1/2" setback from face of concrete.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 3,000 psi normal weight concrete.

**Note:** Dayton Superior does not recommend the use of 1/2" diameter bolts for lifting/handling of precast panels.

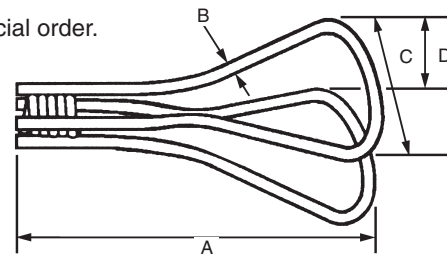
## B-17 Double Flared Coil Loop Insert

The safe working load of the B-17 Double Flared Coil Loop Insert is greatly increased over that of a B-18 Single Flared Coil Loop. This increase in capacity is achieved by welding a second loop to the same coil. By adding the additional loop, it doubles the cross-sectional area of steel embedded in the concrete and at the same time, increases the area of the shear cone.

The design of the B-17 insert leaves an open space between the two loops, allowing the B-17 insert to "straddle" reinforcing steel or prestressing strands.

Standard sizes are shown in the chart and other sizes are available on special order.

Minimum spacing between inserts is twice the minimum corner distance.



B-17 Double Flared Coil Loop Insert

### To Order:

Specify: (1) quantity, (2) name, (3) bolt diameter, (4) length, (5) finish.

### Example:

400, B-17 Double Flared Coil Loop Inserts, 1-1/4" dia. X 12-3/8" long, plain finish.

B-17 Double Flared Coil Loop Insert Selection Chart									
Bolt Diameter	Insert Length	Minimum Edge Distance	Minimum Corner Distance	Safe Working Load Tension	Safe Working Load Shear	A	B	C	D
1" 1-1/4" or 1-1/2"	12-3/8"	5"	15"	4,910 lbs.	2,780 lbs.	12-3/8"	0.375"	5-9/16"	5-9/16"
		9"	15"	9,500 lbs.	6,720 lbs.				
		12"	18"	9,500 lbs.	9,500 lbs.				
		18"	27"	9,500 lbs.	9,500 lbs.				
1" 1-1/4" or 1-1/2"	12-1/2"	5"	15"	4,950 lbs.	2,940 lbs.	12-1/2"	0.440"	5-3/4"	5-3/4"
		9"	15"	9,810 lbs.	7,120 lbs.				
		12"	18"	11,150 lbs.	10,960 lbs.				
		18"	27"	13,500 lbs.	13,500 lbs.				

Safe Working Loads are based on 1/2" setback from face of concrete.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 2,000 psi normal weight concrete.