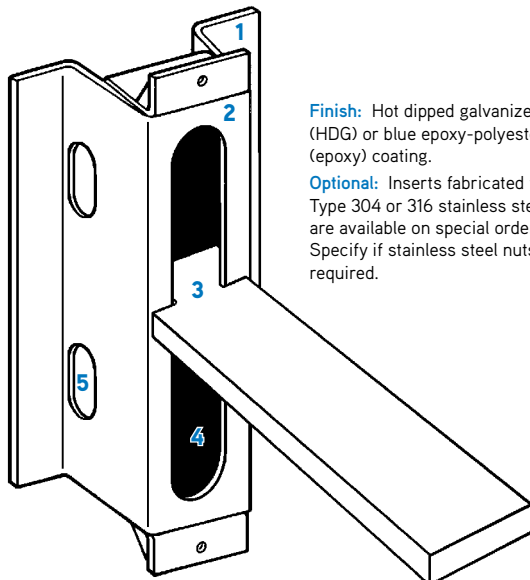


## P31 Corewall® Strap Type Slotted Insert

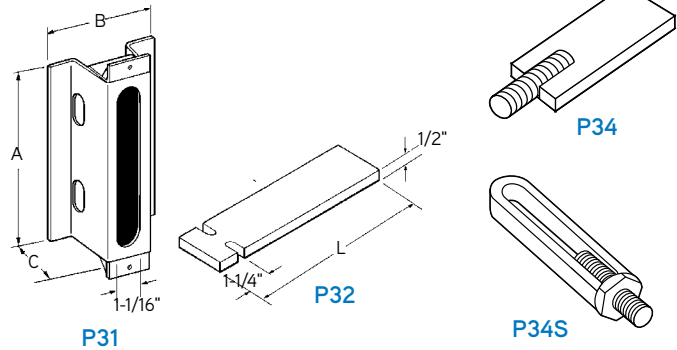
## P32 Corewall® Strap Anchor & P34 Corewall® Threaded Strap Anchor

The P31 Corewall Strap Type Slotted Insert and the P30 Corewall Nut Type Slotted Insert are both quick and versatile precast concrete connection inserts. When used with the slot running in the same direction as the applied load, the inserts act as a tension tie to the structural frame. However, when the inserts are installed so that the slot runs 90° to the applied load, the inserts can support both shear and tension loads.

See following pages for the minimum edge distance requirements needed to develop the tension and shear safe working loads shown in the table below.



**Finish:** Hot dipped galvanized (HDG) or blue epoxy-polyester (epoxy) coating.  
**Optional:** Inserts fabricated from Type 304 or 316 stainless steel are available on special order. Specify if stainless steel nuts are required.



1. Tabs for easy attachment to forms.
2. Weldable grade of steel.
3. Notch in strap anchor assures positive connection to insert
4. Slot allows adjustment for erection tolerances.
5. Slotted holes for extra reinforcement where required.

**P31 Corewall Strap Type Slotted Insert**

**P32 Corewall Strap Anchor**

**P31 Corewall Strap Type Slotted Insert Selection Table**

Insert Style	Tension Safe Working Load	Shear Safe Working Load		A	B	C
		Up to 2" Eccentricity	Up to 3" Eccentricity			
SA 1825	4,000 lbs.	6,650 lbs.	4,000 lbs.	8"	4-3/16"	2-1/2"
SA 1635	5,350 lbs.	6,650 lbs.	4,000 lbs.	6"	4-3/8"	3-1/2"
SA 1835	5,350 lbs.	6,650 lbs.	4,000 lbs.	8"	4-3/8"	3-1/2"

Safe Working Load provides a factor of safety of approximately 3 to 1 in 5,000 psi normal weight concrete. Eccentricity is measured from face of insert to midpoint of the weld connecting the strap anchor to the structural frame.

**Corewall Strap Anchor Selection Table**

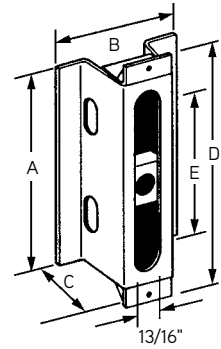
P32 Standard Strap Anchor		P34 Threaded Channel Strap Anchor		P34 Threaded Plate Strap Anchor	
Part Number	Length	Part Number	Length	Part Number	Length
CE 806	6"	CE 675	6"	CE 600	6"
CE 808	8"	CE 875	8"	CE 800	8"
CE 810	10"	CE 1075	10"	CE 1000	10"
CE 812	12"	CE 1275	12"	CE 1200	12"

**Note:** Longer lengths are available on special order. The P34 Threaded Strap Anchor is used with the P30 Nut Type Slotted Insert and P38 Slotted Insert II.

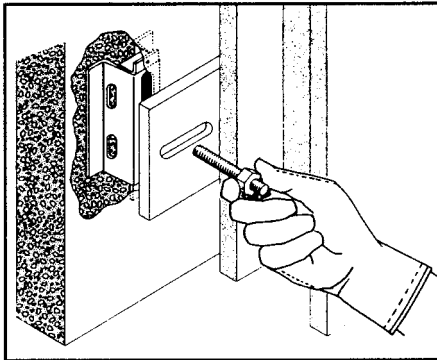
Miscellaneous Connection Inserts

## P30 Corewall® Nut Type Slotted Insert

The Dayton Superior P30 Nut Type Slotted Insert uses a spring loaded, zinc plated, heavy duty 3/4"-10 NC threaded nut to provide fast, efficient and reliable connections. The P30 insert can be used with standard NC threaded bolts or a P34 Threaded Strap Anchor, if a welded connection is required. P30 inserts are available in 4", 6" and 8" standard lengths with either blue epoxy-polyester or hot dipped galvanized (HDG) finish. Type 304 or 316 stainless steel is available on request.



**P30 Corewall Slotted Insert Nut Type**



For proper connection to the structural frame of the building, use either a 3/4"-10 NC threaded bolt or rod meeting ASTM A-325 or SAE Grade 5 Standards.

### To Order:

Specify: (1) quantity, (2) name, (3) part number, (4) finish.

### Example:

200, P30 Corewall Nut Type Slotted Inserts, #CS425, hot-dip galvanized.

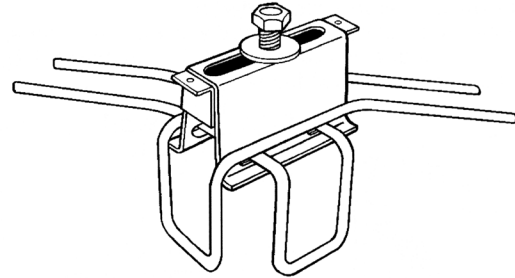
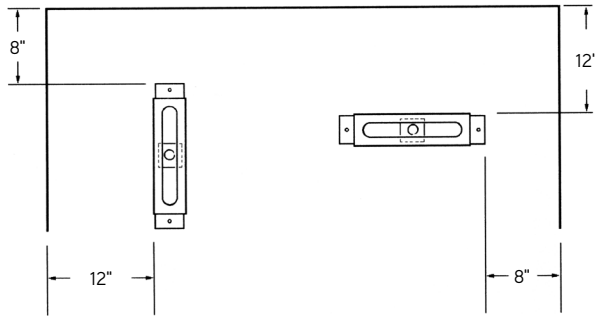
**P30 Corewall Nut Type Slotted Insert Selection Table**

Product Code	Tension Safe Working Load	Shear Safe Working Load	A	B	C	D	Adjustment E
CS425	4,000 lbs.	6,650 lbs.	4"	3-3/16"	2-1/2"	5-1/2"	2-1/2"
CS625	4,000 lbs.	6,650 lbs.	6"	3-3/16"	2-1/2"	7-1/2"	4-1/2"
CS635	5,350 lbs.	6,650 lbs.	6"	3-3/8"	3-1/2"	7-1/2"	4-1/2"
CS835	5,350 lbs.	6,650 lbs.	8"	3-3/8"	3-1/2"	9-1/2"	6-1/2"
CS645	6,650 lbs.	6,650 lbs.	6"	3-11/16"	4-1/2"	7-1/2"	4-1/2"
CS845	6,650 lbs.	6,650 lbs.	8"	3-11/16"	4-1/2"	9-1/2"	6-1/2"

Safe Working Loads provide a factor of safety of approximately 3 to 1 in 5,000 psi normal weight concrete.

## Corewall® Edge and Corner Details

Minimum edge distance, without the use of additional reinforcing steel, is shown below. Edge distance can be reduced if additional reinforcing steel is installed in the insert slots, as shown.



A variety of configurations of extra reinforcing bars can be easily placed through the slotted holes in the legs of the insert. This will allow the insert to be used in seismic areas, as well as close to corners or edges of a precast concrete panel.

<p><b>Corner Detail-</b></p> <p>Plan</p> <p>Section</p>	<p><b>Edge Perpendicular Detail-</b></p> <p>Plan</p> <p>Section</p>	<p><b>Slot Details-</b></p> <p>4" Insert</p> <p>6" Insert</p> <p>8" Insert</p>
<p><b>Edge Parallel Detail-</b></p> <p>Plan</p> <p>Section</p>	<p><b>Corner Detail-</b></p> <p>Plan</p> <p>Section</p>	<p><b>Stepped Hairpin-</b></p> <p>Varies to suit minimum cover</p> <p>#4 Rebar</p> <p>1'-6"</p> <p>3-1/2" Out/Out</p> <p><b>Half Stepped Hairpin</b></p> <p>Varies</p> <p>#4 Rebar</p> <p>1'-6"</p> <p>1-3/4" Out/Out</p>

Miscellaneous Connection Inserts