

Select the appropriate fastener based on the actual substrate thickness. Note that K66075 or K64075 pins are to be used for attachment of four layers of 20 gage deck or three or four layers of 18 or 16 gage deck.

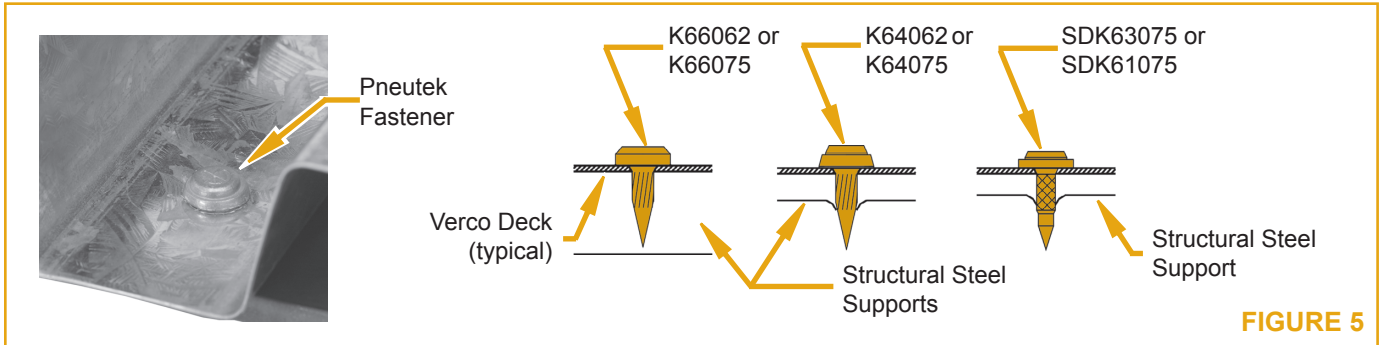


FIGURE 5

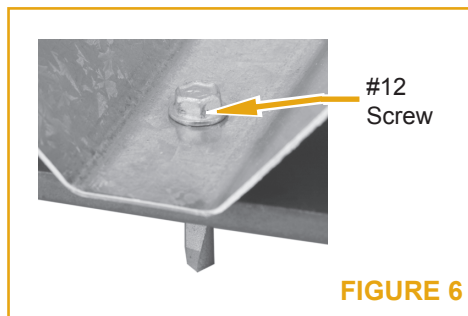


FIGURE 6

**Screws:** #12 self-drilling, self-tapping screws are to be installed as shown in Figure 6.

Diaphragm shear and flexibility values are based on SDI recognized #12 screws from Buildex, Elco, Hilti, and Simpson Strong-Tie when installed in supports at least 0.0385 inches thick. The tabulated shears and flexibility values may be modified in accordance with appropriate footnotes of the Diaphragm Shear Strength and Flexibility Tables for supports of different thicknesses or for screws ("generic") which are not recognized by SDI.

**ShearTranz® II-42 System:** Verco introduced the use of restraining elements, such as the ShearTranz II-42 System, to increase roof deck diaphragm rigidity.

The 14 gage ShearTranz II-42 elements are used with PLB-36 deck with sidelaps connected using the PunchLok II Tool.

The ShearTranz II-42 elements are used at shear collecting support elements perpendicular to the deck corrugations. When ShearTranz II-42 elements are used, the deck does not need to terminate at the support as it may be cantilevered.

Deck end laps of PLB-36 with the ShearTranz II-42 System must be at least 2 inches and fastened to supports with arc spot and arc seam welds. ShearTranz II elements are required if butted end joints are used. See installation details shown on page 66.