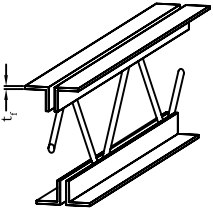
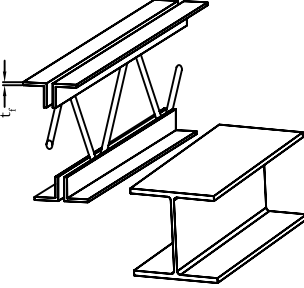
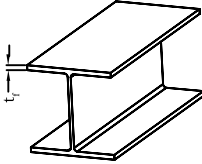



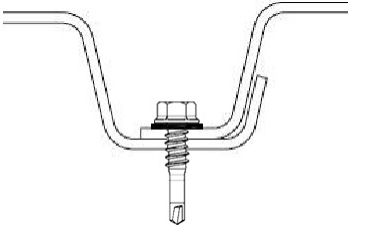
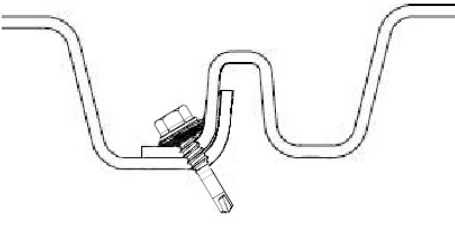




Hilti Deck Fastening Systems

Structural General Notes and Selection Tables

Mechanical Fasteners

1. Install powder-actuated fasteners according to the manufacturer's recommendations.
2. Powder-actuated fasteners shall be manufactured from AISI 1070 modified steel, austempered to a Rockwell C Hardness of 52 - 58. Fasteners shall have minimum tensile and shear strengths of 285 ksi and 182 ksi respectively.
3. Powder-actuated fasteners shall have ballistic points, knurled shanks and minimum 12-mm diameter steel washers.
4. Powder-actuated fasteners shall be zinc plated to a thickness of 5 μ m in accordance with ASTM B633, Sc. 1, Type III.
5. Powder-actuated fasteners shall be UL listed for fire resistance, wind and uplift, FM listed for uplift and recognized by ICC-ES for diaphragm shear strength and stiffness in accordance with the latest version of ICC-ES AC43. Sidelap connectors shall be FM listed for wind uplift and recognized by ICC-ES for diaphragm shear strength and stiffness in accordance with the latest version of ICC-ES AC 43.
6. Powder-actuated fasteners on exposed roof decks shall be covered with stainless steel sealing caps conforming to SAE 316 with internal and external diameters of 7 and 22 mm respectively and integral black, closed-cell neoprene washers with 0.200 g/cm³ density.
7. Approved sidelap connectors shall be Hilti S-SLC 01 M HWH or S-SLC 02 M HWH sidelap connectors at locations and spacing shown on drawings.
8. Sidelap connectors on exposed roof decks shall be Hilti S-MD 1/4-14 x 7/8 HWH Stitch Kwik Seal sidelap connectors with integral black, closed-cell neoprene sealing washers.

<p>K, LH, DLH SERIES JOIST FLANGE THICKNESS: 1/8" - 1/4"</p> 	<p>K, LH, DLH SERIES JOIST AND W/M SHAPES FLANGE THICKNESS: 3/16" - 3/8"</p> 	<p>W/M SHAPES FLANGE THICKNESS: $\geq 1/4$"</p> 
 <p>HILTI X-EDNK22 THQ12 (1/8" (3mm) $\leq t_f \leq 1/4$" (6mm))</p>	 <p>HILTI X-EDN19 THQ12 (3/16" (5mm) $\leq t_f \leq 3/8$" (10mm))</p>	 <p>HILTI X-ENP-19 L15 ($t_f \geq 1/4$" (6mm))</p>
 <p>SIDELAP CONNECTOR WITH NESTABLE DECK</p>	 <p>SIDELAP CONNECTOR WITH SCREWABLE INTERLOCKING DECK</p>	
 <p>HILTI S-SLC 01 M HWH 20. GA to 26 GA.</p>	 <p>HILTI S-SLC 02 M HWH 16. GA to 22 GA.</p>	