



<b>Product Ratings – 2018</b>		<b>ESR ICC -4050</b>			
<b>Helix Plate Material A-50 Grade .38 / .50 / .75</b>					
<b>Shaft Size</b>	<b>Installation Torque Factor</b>	<b>Compression Load Limit</b>	<b>Ultimate Tension</b>	<b>Torsional Strength</b>	<b>Load Limit Torsional</b>
<b>1.500 - BAR</b>	<b>10</b>	<b>60,000 lbs.</b>	<b>70,000</b>	<b>5,500 ft-lb</b>	<b>55,000 lb</b>
<b>1.750 - BAR</b>	<b>10</b>	<b>90,000 lbs</b>	<b>100,000</b>	<b>10,000 ft-lb</b>	<b>100,000 lb</b>
<b>2.375 OD- .190</b>	<b>10</b>	<b>50,000 lbs.</b>	<b>45,000</b>	<b>4,500 ft-lb</b>	<b>45,000 lb</b>
<b>2.875 OD- .276</b>	<b>9</b>	<b>90,000 lbs.</b>	<b>80,000</b>	<b>8,000 ft-lb</b>	<b>72,000 lb</b>
<b>2.875 OD- .217</b>	<b>9</b>	<b>120,000 lbs.</b>	<b>115,000</b>	<b>9,500 ft-lb</b>	<b>85,000 lb</b>
<b>3.50 OD- .300</b>	<b>7</b>	<b>120,000 lbs.</b>	<b>120,000</b>	<b>12,500 ft-lb</b>	<b>87,500 lb</b>
<b>3.50 OD- .254</b>	<b>7</b>	<b>140,000 lbs.</b>	<b>140,000</b>	<b>15,500 ft-lb</b>	<b>108,500 lb</b>
<b>4.50 OD- .290</b>	<b>6</b>	<b>170,000 lbs.</b>	<b>170,000</b>	<b>24,000 ft-lb</b>	<b>144,000 lb</b>
<b>4.50 OD- .337</b>	<b>6</b>	<b>195,000 lbs.</b>	<b>190,000</b>	<b>30,000 ft-lb</b>	<b>180,000 lb</b>
<b>5.50 OD- .362</b>	<b>5</b>	<b>280,000 lbs.</b>	<b>270,000</b>	<b>40,000 ft-lb</b>	<b>200,000 lb</b>

**Note:** These are our most common shaft sizes, but we can custom manufacture helical piers up to 16.75” diameter with a .875 wall to suit your specified material requirements and standards.

The capacities shown above for ultimate compression, tension and torsional strength values are determined by statistical analysis of laboratory testing results. A minimum factor of safety of 2.0 is recommended for determining allowable capacity from correlations with final installation. Load test are recommended when practical. Empire Piers Manufacturing USA.