**BoxBolt® Cavity Solutions**

BoxBolt® is a fully tested and approved blind connection solution for connecting to hollow section steel or where access is restricted to one side only. The BoxBolt® is suitable for use with rectangular, square and even circular hollow sections. The features a hexagon head design to aid installation with a standard wrench. It allows it to be installed with our unique BoxSok™ installation tool for when installation time needs to be kept to an absolute minimum.

The BoxBolt® is available in three finishes; Zinc Plated for the less aggressive environments, Hot Dip Galvanized for the more aggressive environments, and Stainless Steel for the most demanding of applications. These finishes combined with three lengths of BoxBolt make it extremely flexible to suit its environment and application. The BoxBolt® is approved for use by Lloyds Register (LR) type approval and the Deutsches Institut für Bautechnik (DIBt) to give the specifier and user total confidence.

Select the type of finish you require on the BoxBolt® by replacing the "_" in the code with a Z for zinc plated, a G for Hot Dip Galvanized or an S for Stainless Steel.

Example: BQ2G12 is a 1/2" BoxBolt size 2 in Hot Dip Galvanized Finish.

**BoxBolt® Technical Data**

<table>
<thead>
<tr>
<th>Part Number &amp; Description</th>
<th>Dimensional Information</th>
<th>Load Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>Bolt Dia</td>
<td>Description</td>
</tr>
<tr>
<td>BQ1Z06*</td>
<td>1/4&quot;</td>
<td>1/4&quot; BoxBolt Size 1</td>
</tr>
<tr>
<td>BQ1_08</td>
<td>5/16&quot;</td>
<td>5/16&quot; BoxBolt Size 1</td>
</tr>
<tr>
<td>BQ2_08</td>
<td>5/16&quot;</td>
<td>5/16&quot; BoxBolt Size 2</td>
</tr>
<tr>
<td>BQ3_08</td>
<td>5/16&quot;</td>
<td>5/16&quot; BoxBolt Size 3</td>
</tr>
<tr>
<td>BQ1_10</td>
<td>3/8&quot;</td>
<td>3/8&quot; BoxBolt Size 1</td>
</tr>
<tr>
<td>BQ2_10</td>
<td>3/8&quot;</td>
<td>3/8&quot; BoxBolt Size 2</td>
</tr>
<tr>
<td>BQ3_10</td>
<td>3/8&quot;</td>
<td>3/8&quot; BoxBolt Size 3</td>
</tr>
<tr>
<td>BQ1_12</td>
<td>1/2&quot;</td>
<td>1/2&quot; BoxBolt Size 1</td>
</tr>
<tr>
<td>BQ2_12</td>
<td>1/2&quot;</td>
<td>1/2&quot; BoxBolt Size 2</td>
</tr>
<tr>
<td>BQ3_12</td>
<td>1/2&quot;</td>
<td>1/2&quot; BoxBolt Size 3</td>
</tr>
<tr>
<td>BQ1_16</td>
<td>3/8&quot;</td>
<td>3/8&quot; BoxBolt Size 1</td>
</tr>
<tr>
<td>BQ2_16</td>
<td>3/8&quot;</td>
<td>3/8&quot; BoxBolt Size 2</td>
</tr>
<tr>
<td>BQ3_16</td>
<td>3/8&quot;</td>
<td>3/8&quot; BoxBolt Size 3</td>
</tr>
<tr>
<td>BQ1_20</td>
<td>3/4&quot;</td>
<td>3/4&quot; BoxBolt Size 1</td>
</tr>
<tr>
<td>BQ2_20</td>
<td>3/4&quot;</td>
<td>3/4&quot; BoxBolt Size 2</td>
</tr>
<tr>
<td>BQ3_20</td>
<td>3/4&quot;</td>
<td>3/4&quot; BoxBolt Size 3</td>
</tr>
</tbody>
</table>

* BQ1Z06 is tested at an external test house but is not approved by LR type or DIBt.

The loads stated above have a partial reduction factor of 0.75 applied to the ultimate tensile and shear strength to give the available strengths of the BoxBolt®. A further reduction factor or factor of safety should be applied to these load values that is relevant to the application, code, or design guidelines. The overall strength of the connection is normally governed by the strength of material the BoxBolt® is connecting into; therefore, the structural capacity of the connection should be checked by a structural engineer.

Approvals – The published loads are taken from physical testing in hollow structural section which are then verified by Lloyds Register Type Approval. The BoxBolt® is also tested and approved by DIBt (Deutsches Institut für Bautechnik) which complies with the DIN 18800 and Eurocode 3 design methods for bolted steel connections. A design guide and calculator is available when using these methods. Please ask our technical team for more information.