



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 **BoxBolt** 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.

BoxBolt® Technical Data

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.

Part Number & Description			Dimensional Information							Load Information		
Product Code	Bolt Dia	Description	Setscrew Length	Clamping Range (X)		Across Flats of Shoulder	Shoulder Thickness	Sleeve Dia	Hole Size Dia	Available Strength (lbs)		Torque (ft lb)
				Min	Max					Tensile	Shear	
BQ1Z06*	1/4"	1/4" BoxBolt Size 1	1-3/4"	1/8"	7/8"	11/16"	3/16"	3/8"	1/2"	2872	4793	14
BQ1_08	5/16"	5/16" BoxBolt Size 1	2"	3/16"	1"	7/8"	1/4"	1/2"	5/8"	5071	5917	18
BQ2_08	5/16"	5/16" BoxBolt Size 2	2-3/4"	11/16"	1-13/16"	7/8"	1/4"	1/2"	5/8"	5071	5917	18
BQ3_08	5/16"	5/16" BoxBolt Size 3	3-9/16"	1-3/16"	2-5/8"	7/8"	1/4"	1/2"	5/8"	5071	5917	18
BQ1_10	3/8"	3/8" BoxBolt Size 1	2"	3/16"	7/8"	15/16"	1/4"	11/16"	3/4"	9718	10985	33
BQ2_10	3/8"	3/8" BoxBolt Size 2	2-3/4"	11/16"	1-11/16"	15/16"	1/4"	11/16"	3/4"	9718	10985	33
BQ3_10	3/8"	3/8" BoxBolt Size 3	3-9/16"	1-3/8"	2-1/2"	15/16"	1/4"	11/16"	3/4"	9718	10985	33
BQ1_12	1/2"	1/2" BoxBolt Size 1	2-3/16"	3/16"	1"	1"	5/16"	3/4"	13/16"	13015	12676	59
BQ2_12	1/2"	1/2" BoxBolt Size 2	3-1/8"	3/4"	2"	1"	5/16"	3/4"	13/16"	13015	12676	59
BQ3_12	1/2"	1/2" BoxBolt Size 3	4"	1-9/16"	2-3/4"	1"	5/16"	3/4"	13/16"	13015	12676	59
BQ1_16	5/8"	5/8" BoxBolt Size 1	3"	3/16"	1-3/8"	1-7/16"	3/8"	1"	1-1/16"	26199	29578	140
BQ2_16	5/8"	5/8" BoxBolt Size 2	4"	1-3/16"	2-3/8"	1-7/16"	3/8"	1"	1-1/16"	26199	29578	140
BQ3_16	5/8"	5/8" BoxBolt Size 3	4-3/4"	2-3/16"	3-1/8"	1-7/16"	3/8"	1"	1-1/16"	26199	29578	140
BQ1_20	3/4"	3/4" BoxBolt Size 1	4"	5/16"	1-5/8"	1-13/16"	7/16"	1-1/4"	1-3/8"	36932	33804	221
BQ2_20	3/4"	3/4" BoxBolt Size 2	4-3/4"	1-3/8"	2-13/16"	1-13/16"	7/16"	1-1/4"	1-3/8"	36932	33804	221
BQ3_20	3/4"	3/4" BoxBolt Size 3	6"	2-9/16"	4"	1-13/16"	7/16"	1-1/4"	1-3/8"	36932	33804	221

* 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.