

Data Table For Box-Bolt

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Part Number & Description			Dimensional Information					
Product Code	Bolt Dia	Description	Screw Length	Clamping Range (X)		Across Flats Of Shoulder	Shoulder Thickness	Hole Dia
				Min	Max			
BQ1Z06	1/4"	1/4" BoxBolt Size 1	1-3/4"	1/8"	7/8"	11/16"	3/16"	1/2"
BQ1Z08	5/16"	5/16" BoxBolt Size 1	2"	1/8"	1"	7/8"	1/4"	5/8"
BQ2Z08	5/16"	5/16" BoxBolt Size 2	2-3/4"	1/2"	1-13/16"	7/8"	1/4"	5/8"
BQ3Z08	5/16"	5/16" BoxBolt Size 3	3-9/16"	1"	2-5/8"	7/8"	1/4"	5/8"
BQ1Z10	3/8"	3/8" BoxBolt Size 1	2"	1/8"	7/8"	15/16"	1/4"	3/4"
BQ2Z10	3/8"	3/8" BoxBolt Size 2	2-3/4"	5/8"	1-11/16"	15/16"	1/4"	3/4"
BQ3Z10	3/8"	3/8" BoxBolt Size 3	3-9/16"	1-3/16"	2-1/2"	15/16"	1/4"	3/4"
BQ1Z12	1/2"	1/2" BoxBolt Size 1	2-3/16"	1/8"	1"	1"	5/16"	13/16"
BQ2Z12	1/2"	1/2" BoxBolt Size 2	3-1/8"	3/4"	2"	1"	5/16"	13/16"
BQ3Z12	1/2"	1/2" BoxBolt Size 3	4"	1-7/16"	2-3/4"	1"	5/16"	13/16"
BQ1Z16	5/8"	5/8" BoxBolt Size 1	3"	1/8"	1-3/8"	1-7/16"	3/8"	1-1/8"
BQ2Z16	5/8"	5/8" BoxBolt Size 2	4"	1"	2-3/8"	1-7/16"	3/8"	1-1/8"
BQ3Z16	5/8"	5/8" BoxBolt Size 3	4-3/4"	1-7/8"	3-1/8"	1-7/16"	3/8"	1-1/8"
BQ1Z20	3/4"	3/4" BoxBolt Size 1	4"	1/8"	1-5/8"	1-13/16"	7/16"	1-3/8"
BQ2Z20	3/4"	3/4" BoxBolt Size 2	4-3/4"	1-3/16"	2-13/16"	1-13/16"	7/16"	1-3/8"
BQ3Z20	3/4"	3/4" BoxBolt Size 3	6"	2-3/8"	4"	1-13/16"	7/16"	1-3/8"

Load Information				
BoxBolt Dia	Thickness of Material being Connected to	Safe Working Load (lbs)		Torque (ft lb)
		Tensile	Shear	
1/4"	1/8"	495	1275	14
1/4"	5/16"	764	1275	14
5/16"	3/16"	607	1574	18
5/16"	1/4" or 5/16"	1012	1574	18
5/16"	3/8" or 1/2"	1349	1574	18
3/8"	3/16"	1012	2922	33
3/8"	1/4"	1888	2922	33
3/8"	5/8", 3/8" or 1/2"	2585	2922	33
1/2"	3/16"	1012	3372	59
1/2"	1/4"	1753	3372	59
1/2"	5/16"	2945	3372	59
5/8"	3/16"	1439	7868	140
5/8"	1/4"	1843	7868	140
5/8"	5/16"	3125	7868	140
3/4"	1/4"	1798	8992	221
3/4"	5/16"	3439	8992	221
3/4"	3/8"	6384	8992	221
3/4"	1/2"	9824	8992	221

All loads include a 5:1 Factor of Safety

The tensile load of the BoxBolt is based upon the strength of the structure being connected to. Please consult a licensed structural engineer to establish the load for steel sections other than those shown above

Special length BoxBolts are available for applications where the required clamping range exceeds those stated above. Please contact Beam-Clamp for further information.

The BoxBolt is only available with a metric internal bolt. Bolt diameters shown above are converted from metric sizes.

BoxBolt products are approved by Llyods Register with the exception of the BQ1Z06.

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