

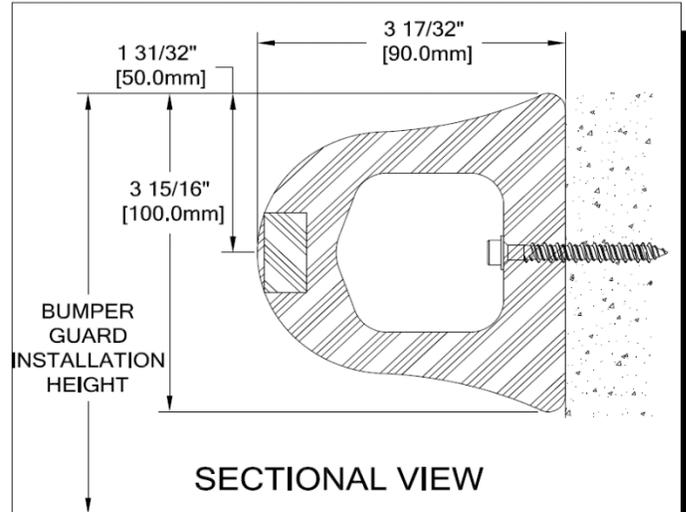
**ATTENTION**

Please read these instructions thoroughly prior to beginning the **HB-100D** installation!

This instruction sheet is intended to provide a specific guide to follow for the installation of the **HB-100D**. Contained within is the technical information and installation techniques required to complete an efficient, neat, and long-lasting installation.

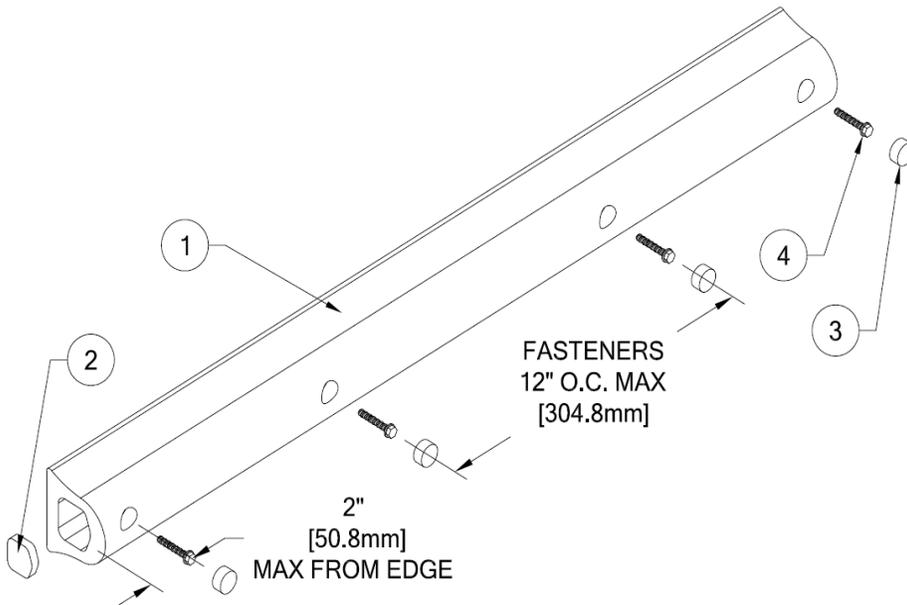
See "**Industrial Bumper and Corner Guard**– Supplemental Information" sheet for additional notes and other helpful installation tips.

Minimum length of **HB-100D** is 6" [152.4mm] and requires at least 2 fasteners per unit.



**Parts List**

1. HB-100D Industrial Bumper (24N028000)
2. End Plug (24N040000)
3. Front Plug (24N038000)
4. Specified Fastener



**INSTALLATION INSTRUCTIONS**

1. Establish bumper guard height above finish floor. Deduct 1 31/32" [50.0mm] and snap a chalk line at that height. This marks the centerline location of the fasteners for the bumper guard.
2. Measure the area of the wall in which the bumper guard will be installed and cut the bumper guard unit to length.

**Note:** Bumper guard at inside and outside corners are to be field mitered.

3. Drill clearance holes in the bumper guard 2" [50.8mm] max from each end and 12" [304.8mm] max on center. Reference chart below for correct drill diameters.
4. Using the clearance holes above as a guide, drill through face of rail only using a 1" hole saw.
5. Using the guard as a template, mark the fastener locations on the wall, then pre-drill the wall for specified fasteners. Reference chart below for correct drill diameters.
6. Install the bumper guard unit using the specified fasteners. Be careful not to overtighten the fasteners. Use a level line to insure the bumper guard is level.
7. After the industrial bumper has been installed on the wall, use the supplied black Loctite 5990 (**90M121002**) to put the plugs in the face and end of the bumper. Put a 1/4" bead of the Loctite around the outer perimeter of the plugs and press them into the holes of the industrial bumper. Wipe off any excess Loctite that might end up on the face of the bumper.
8. Once bumper guard is on the wall, clean product of any obvious dirty marks using mild detergent and water.

WALL CONDITION	SPECIFIED FASTENER	DRILL DIAMETER		CS PART NUMBER
		WALL	BUMPER	
Concrete / Concrete Block	1/4" x 1-3/4" Hex Washer Head Tapcon	3/16"	5/16"	90H936002
Steel Stud and Gypsum Wall Brd	1/4" x 4" Round Head Toggle Bolt and Toggle Wing	3/4"	9/32"	90H059002
Wood Stud and Gypsum Wall Brd	#14 x 4" Round Head All Purpose Screw	7/32"	9/32"	90H225002

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