

Grating Fasteners

P. O. Box 610
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Home of the "G-Clip" ...the best grating fastener!

Product Information

Model **GA-** grating fasteners



G-Clip™ model **GA-** is a galvanized carbon steel grating fastener used to fasten 19-space bar grating to structural shapes, where the structural flange is in a vertical plane.

G-Clip model GA- fastener consists of **three parts**, which are assembled at our factory in Louisiana. These complete assemblies are packed 20 units to a standard box. The principal part is the J-Hook portion of the assembly, which has a female-thread form in its upper portion. This J-Hook is die stamped, with a J shape segment facing upward, which contacts the vertical flange of the structural member. The second part is the **stamped top**, which fits flat over the grating upper surface. The body and top are joined by the Third part, a **1/4"-20 threaded bolt**. This bolt varies in length to suit what is required for the application.

INSTALLATION PREPARATION

As with any grating fastener, care should be taken during the grating layout, cutting and placement phase, to reduce the quantity of grating crossbars that are located over the structural member flange edge. This reduces the quantity of grating crossbars that interfere with fastener placement, which otherwise requires cutting of cross bars.

TOOLS REQUIRED

G-Clips can be installed using a hand-held 7/16" nut driver. Other hand-held tools, such as socket wrenches or torque wrenches can also be used. Using a calibrated torque wrench will ensure accurate installation torque values.

INSTALLATION GUIDE

Hold the G-Clip square top in hand, allowing the body portion to hang downward. Fit the body between two bearing bars and lower the unit until the body is below the grating bottom. Slide unit laterally toward, and allow it to fit under, the structural member flange. Pull upward on the top of the G-Clip, holding upward force. With the formed lower-body secure under the flange area, tighten the bolt with a 7/16" wrench, to complete the installation of the G-Clip unit.

It is also recommended that grating installers use 1 G-Clip for every 4 sqft of grating. In cases of high-vibration or heavy loads, using 1 G-Clip for every 2.5 sqft of grating is recommended. It is recommended that a site engineer or project manager be consulted for the final number of G-Clips to be used on an installation project.

TORQUE MEASUREMENTS

Common hand held nut drivers have a handle diameter of 1" to 1-1/4", which will allow installation torque (resistance to further tightening) of approximately 60 inch/pounds to be easily achieved. This is sufficient for many installation requirements. Electrical or pneumatic driven tools are often used on large grating surface areas. With any tool, it is recommended that the torque values do not exceed 100 inch/pounds.

When severe vibrations are anticipated or structural movements may occur, a higher torque value can be used, as long as the G-Clip does not deform. In-house tests have shown that the Model GA and GT-W top to maintain hold when tightened up to 130 inch/pounds. Installing the G-Clip with a higher value is not recommended.

HOW TO ORDER

Determine total height of grating and length of vertical flange. Describe grating configuration to specify proper top assembly to suit grating being installed.