

## Grating Fasteners

P. O. Box 610  
Harvey, LA 70059



Home of the "G-Clip" ...the best grating fastener!

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### Product Information

Model **GN-** grating fasteners



G-Clip™ model **GN-** is a galvanized carbon steel grating fastener used to fasten 15-space bar grating to structural shapes, where the structural flange is in a horizontal plane. This model is slightly narrower than our GG-1 series.

**G-Clip model GN-** fastener consists of **three parts**, which are assembled at the factory into a complete installation unit, packed 50 units to a standard box.

The principal part is the **grip-jaw** portion of the assembly, which has a female-thread form in its upper portion. This grip-jaw is die-stamped, with die-cut, toothed-shaped segments facing upward, which contact the underside 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 cross bars that are located over the structural member flange edge. This reduces the quantity of grating cross bars 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 ensures that the proper installation torque value is met.

### 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.

### 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. Do not exceed torque values of 100 inch/pounds if fastener reuse is desired. It is recommended that 1 G-Clip is used for every 4 sq ft of grating.

When severe vibrations are anticipated or structural movements may occur, a higher torque value can be used, thus sacrificing fastener re-use for greater holding force. In-house tests have shown the Model GN and GT-W top to maintain hold while tightened up to 155 inch/pounds. In conditions with extreme vibrations, 1 G-Clip for every 2.5 sq ft of grating may be needed.

### HOW TO ORDER

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