Fabrication is best performed prior to SlipNOT® surface application. SlipNOT® does not recommend any fabrication of products after galvanizing. SlipNOT® products can however be treated similar to their smooth plate counterparts when fabricating. Material can generally be sheared, flame/torch cut, laser cut, water-jetted, plasma cut or welded, either directly or from the opposite side, without adversely effecting the SlipNOT® surface. The SlipNOT® surface bonds at over 4,000 psi and results in a hardened surface between 55 – 63 on the Rockwell “C” Scale.

The following is intended as a general informational guideline and may not account for all types of fabrication or installations. Please contact a SlipNOT® representative for additional information.

**DRILLING**
SlipNOT® material can be drilled and countersunk in most situations. Generally, due to the resulting surface hardness, pre-drilling material prior to the SlipNOT® application is recommended. Pre-drilled holes, countersinks, and counter bores are protected from the SlipNOT® process so screws/bolts will sit flush. Due to the surface hardness, if fabrication is done after SlipNOT® application, additional time and tooling costs should be figured into estimating and labor costs.

**SHEARING**
Due to the unique random stacked hatch matrix of the SlipNOT® surface, plates can usually be sheared. It is recommended that SlipNOT® material be flame, plasma, laser, or water-jet cut to save wear and tear on tooling. Plates can also be sheared from the non-slip side to help minimize dulling of the shear blades, however, the roughened, hardened SlipNOT® surface can scratch shear tables.

**FLAME/PLASMA**
The unique SlipNOT® surface is bonded to substrates at over 4,000 psi and cutting with flame / plasma is no different than with smooth plates. This is the preferred method for fabricating SlipNOT® material with proper execution. The random matrix surface will not flake or delaminate along burn lines and will not be harmed by any standard burning operation.

**LASER CUT**
The random stacked hatch matrix surface of the SlipNOT® will add approximately 0.020” – 0.030” to any given substrate. These materials will not harm the optics of laser cutters so SlipNOT® materials can most often be treated exactly the same as non-SlipNOT® treated pieces. The laser will not harm the SlipNOT® surface in any way and the SlipNOT® surface will not damage any laser equipment.

**WELDING**
SlipNOT® is an all-metal, grit-free surface. Welding is generally performed exactly the same as required for the non-SlipNOT® treated counterparts. In most cases, no special requirements are needed. Heat distortions and discolorations from any welding will be transmitted through the SlipNOT® surface and should be taken into account if aesthetics are critical to your project. Mounting angles or other such material can be pre-welded to materials and used as weld points during the installation process; minimizing the chances of surface blemishes. SlipNOT® does not recommend welding galvanized products.

**SURFACE MASKING / DETAILING**
SlipNOT® is a molten metal plasma stream deposition and areas can be masked / protected from surface coating. In cases of stair treads, risers and nosings are masked and only the tread surface itself receives the SlipNOT® application. Logos, words, or patterns can also be created within the SlipNOT® surface application however, there can be additional costs associated with these procedures. For welded installations, small borders can be masked for easier metal working.