

# BITE INTO SHEET METAL | PRECISION MANUFACTURED

## Impact Driven Duct Lining Fastener

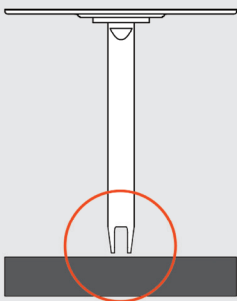
Gripnail is a proven mechanical fastener used to attach insulation to the inside of sheet metal duct work. The hardened tapered teeth pierce the duct liner and form a positive attachment to the sheet metal. Each fastener is precisely formed to exacting quality control standards and they may be applied with a variety of tools or equipment. Gripnails only work when the sheet metal is supported by a hardened base plate or the anvil of a *Gripnailer*.



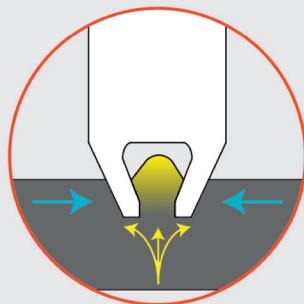
*Gripnails bite into the sheet metal to form a permanent mechanical connection. They eliminate the need for welding and its associated electrical & application risks.*

### How Gripnails Work

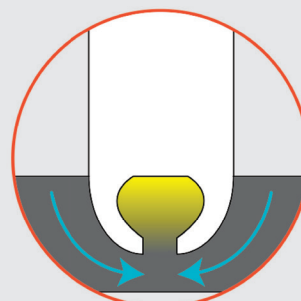
Sheet Metal
  Sheet Metal



The Gripnail is impact driven through the duct liner and into the sheet metal.



The tapered teeth clench the sheet metal to form a ball and socket connection.



When fully set, Gripnails will withstand up to 120 pounds of withdrawal resistance.

**GRIPNAIL**  
FASTENING SYSTEMS

(401) 216-7900  
[www.gripnail.com](http://www.gripnail.com)

## What is a Gripnail?

A Gripnail is a unique mechanical fastener used to attach insulation to sheet metal. It was specifically designed to fasten acoustical duct liner to the inside of heating, ventilating and air conditioning duct work. This operation generally takes place when the duct work is being manufactured.

## Industry Standards

Gripnail meet or exceed the latest SMACNA (Sheet Metal and Air Conditioning Contractors National Association) standards, published in their *HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE*, for low and high velocity ductwork. Gripnails are used by leading air conditioning, sheet metal and mechanical contractors for ductwork in commercial, residential and industrial buildings.

## Product Features

### Impact Fasteners

Bites into, but does not puncture sheet metal.

### Cycle Time

Gripnail and sheet metal bonding is instantaneous.

### Hardness

Point, shank and head are heat treated in a controlled atmosphere to hardness of Rockwell C-50.

### Corrosion Resistance

Gripnails are plated with zinc and receive a final chromate dip.

## Technical Data

**Retaining Cap** - The beveled edge retaining cap is designed to depress the surface of the insulation without tearing or cutting into it. The nail does not protrude from the cap, eliminating air stream noise or interfering with air displacement in the duct.

**Temperature Range** - Gripnails function properly over normally accepted operating range of temperatures of 32 °F to 250 °F and are not adversely affected at temperatures of 0 °F to 550 °F.

**Vibrations** - Gripnails will not fatigue or be physically affected by vibrations normally found in high velocity air handling systems.

**Environmentally Safe** - When used as intended, Gripnails are non-toxic and safe as defined by current Federal Standards.

Use standard personal protective equipment when applying fasteners at all times.

## Ordering Information



Gripnails are shipped in plastic buckets to eliminated shipping damage.



Gripnails work with our Automatic Fastening Center machinery - Gripnailers

Part #	Recommended For	Pin Length Before Welding	Packaging
50S	1/2" Insulation (All Densities)	0.435" (11.05mm)	4 Buckets of 1,000 pcs. / Carton
50B	1/2" Insulation (All Densities)	0.435" (11.05mm)	1 Bucket of 5,000 pcs.
100S	1" Insulation (1 1/2 lb. Density)	0.590" (14.99mm)	4 Buckets of 1,000 pcs. / Carton
100B	1" Insulation (1 1/2 lb. Density)	0.590" (14.99mm)	1 Bucket of 5,000 pcs.
120B	1" Insulation (3 lb. Density)	0.715" (18.16mm)	1 Bucket of 5,000 pcs.
110B	1" Insulation (4 & 6 lb. Density)	0.865" (21.97mm)	1 Bucket of 5,000 pcs.
130B	1 1/2" Insulation (1 1/2 lb. Density)	1.215" (30.86mm)	1 Bucket of 3,000 pcs.
150B	2" Insulation (1 1/2 & 2 lb. Density)	1.465" (37.21mm)	1 Bucket of 3,000 pcs.



ISO 9001 Certified  
Made in the U.S.A.  
An Employee Owned Company

97 Dexter Rd, E. Providence, RI 02914  
Email: gripnail@gripnail.com  
Tel: (401) 216-7900 Fax: (401) 438-8520



www.gripnail.com