

Staple Gun Product Usage Guidelines

Important Instructions and Precautions Regarding Staple Gun Use

The staple gun is a pneumatic (air-powered) tool. To operate correctly, the staple gun requires an air compressor capable of delivering 100 psi. Each tool is designed and sold only for the purpose of installing radiant tubing, and must not be used for any other purpose.

If you experience more than one or two punctures, then either the gun or your installation procedures may be faulty. Discontinue use until the problem is corrected. Return this tool directly to your supplier if it appears to be in need of repairs.

NOTICE

It is recommended to replace radiant tubing that has been punctured. However, if you choose to repair the puncture, always use a manufacturer-approved repair kit. This kit is selected to provide a reliable splice joint if used as directed. The manufacturer does not warranty field splices, as the installation is not under direct supervision.

Read this manual before using this equipment. Failure to read and follow all safety and use information can result in death, serious personal injury, property damage, or damage to the equipment.

Keep this manual for future reference.



General Safety Precautions

1. This tool may fire when you first connect or disconnect the air hose. Be sure that the tool is unloaded or pointed in a safe direction before connecting/disconnecting an air hose.
2. Remember that any pneumatic staple gun is exactly that — a gun. It shoots staples at a velocity sufficient to cause severe injury. Never point this tool at anything except tubing you want to fasten down. Never squeeze the trigger when your finger, hand, or any part of your body is in front of or close to the firing head.
3. Always wear safety glasses with side shields while operating this tool. Other workers or visitors to the job site must wear adequate eye protection if they are within range of the tool. Staples may ricochet off a nail or knot in the subfloor and injure you or a bystander.
4. Do not attempt to staple into knots, even if you must extend the staple spacing.
5. Never attempt to staple into concrete, metal, or any non-wooden surface.
6. Use the correct staple gun and manufacturer-approved staples to prevent tool jamming and tubing punctures. The staple gun has been modified specifically for stapling radiant tubing. Use of non-approved staples can cause accidental punctures.
7. Occasionally a staple may misfire and puncture the tubing when the staple clip is down to the last 5 to 10 staples. Always check to see if the clip is getting low, and insert a new clip to avoid this potential problem.
8. Before beginning the installation, refer to the design plans and associated installation manuals provided for your project.

Using the Staple Gun for Onix

A steel guide plate marked "ONIX" is included with the staple gun. It is designed to be secured to the underside of the gun using the screws provided.

- If stapling 3/8" Onix, make sure the smaller 3/8" opening is at the front of the gun ("3/8 Onix" stamped on the guide plate).
- If stapling 1/2" Onix, unscrew the guide plate and turn it around so the larger 1/2" opening is at the front of the staple gun ("1/2 Onix" stamped on the guide plate).

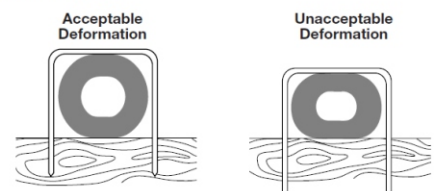
Procedure:

1. Position the guide plate over the Onix.
2. Ensure the guide plate, at both front and back, is placed firmly against the surface.
3. Before pulling the trigger, make sure the tail end of the guide plate is also centered over the Onix.
4. If the tail is not centered, some staples may puncture the tubing.
5. When the guide plate has completely contacted the plywood and is centered over the Onix, pull the trigger and fire the staple.

Onix Staple Intervals & Cautions

- Use one staple every 6 inches when Onix is installed under a wood frame floor. This ensures good thermal contact between the Onix and the floor. Spacing staples too far apart can reduce peak heat output by as much as 20%.
- For initial Onix placement, or where there is insufficient clearance for the gun, use approved fasteners (such as nail clips) to hold the tubing until stapling is possible.
- When stapling Onix on top of a floor, in preparation for installing an elevated thin slab, you may increase the staple spacing to 12"—18". Always maintain the tubing spacing indicated on design plans.
- Do not install Onix under floors containing an asphalt paper "slip joint," as an unpleasant odor may result. Rosin paper (pink colored) is generally acceptable.
- Examine each circuit after stapling. If Onix has been compressed by a staple, remove and replace it. A slight deformation (1/16" or less) is acceptable.

Onix Cautions:



Using the Staple Gun for PEX

A steel guide plate marked "PEX" is included with the staple gun. It is designed to be secured to the underside of the gun using the screws provided.

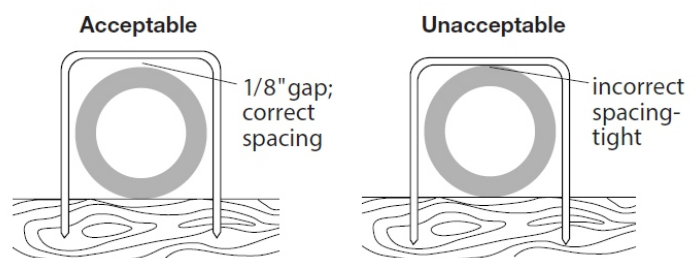
- If stapling 3/8" PEX, make sure the smaller 3/8" opening is at the front of the gun ("3/8 PEX" stamped on the guide plate).
- If stapling 1/2" PEX, unscrew the guide plate and turn it around so the larger 1/2" opening is at the front ("1/2 PEX" stamped on the guide plate).

Procedure:

1. Position the guide plate over the tubing.
2. Ensure the guide plate, at both front and back, is placed firmly against the plywood.
3. Before pulling the trigger, make sure the tail end of the guide plate is centered over the PEX.
4. When the guide plate is fully seated and centered, pull the trigger and fire the staple.

PEX Staple Intervals & Cautions

- The staple gun is designed to leave a 1/8" gap between the top of the tubing and the staple. This prevents damage from impact and avoids abrasion.
- If a staple is closer than 1/16" to the tubing, remove and replace it.
- The staple gun should only be used for thin-slab applications, not "staple-up" or "sandwich" methods.
- For thin-slab applications, staples should be placed every 12"–15" along the tubing. Wider spacing can result in the tubing being too close to the slab surface. A minimum of 3/4" cover between the top of the tubing and the concrete surface is recommended.
- Do not install PEX over floors with asphalt paper "slip joint," as odors may occur. Rosin paper is generally acceptable.



Limited Warranty

The manufacturer warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the manufacturer will, at its option, replace or recondition the product without charge. This limited warranty is the sole and exclusive remedy, and the manufacturer shall not be responsible for incidental, special, or consequential damages. This warranty shall be invalidated by abuse, misuse, misapplication, improper installation, or improper maintenance. Some states or regions do not allow limitations on how long an implied warranty lasts, or the exclusion of consequential damages. Check applicable local laws to determine your rights.