

## SOLIROC MÉTAL Products installation

### New construction rough-in

- 1- Main system installation
- 2- Cold air return ducts
- 3- Fully concealed installation

### 1- MAIN SYSTEM INSTALLATION

The ideal time to install the System is before Dry-Walling. We recommend to hold off the installation until all Furnace ducts and Plumbing Rough-in are completed, as it is easier for you to work around these ducts and plumbing lines than for the sub-trades to work around you. Ideally, the Main-run should be run along the center of the house from the basement up.

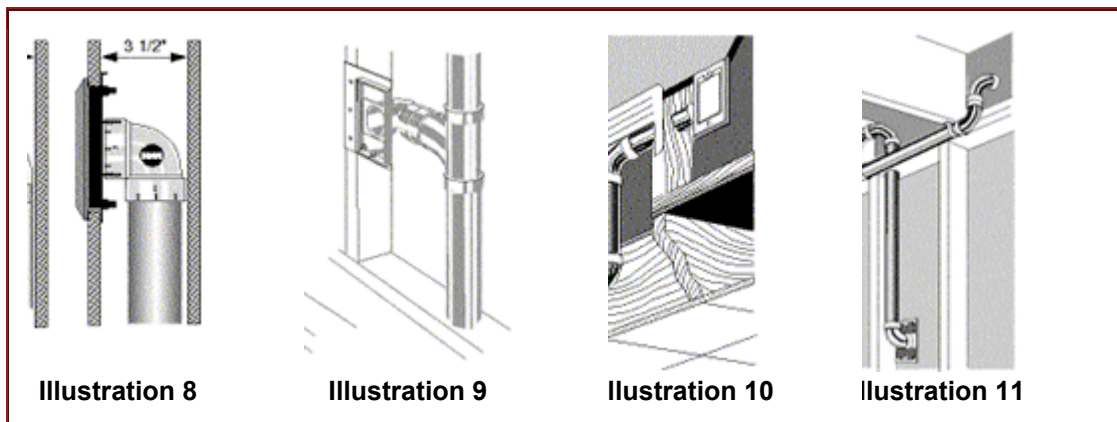
As the location of the furnace is usually in the center of the house with the heating ducts branching out from there, your Main-run could easily be installed along these ducts. Your System's Main-run will then be concealed at the same time as when furnace ducts and plumbing-lines are boxed-in and covered.

### TRY TO COOPERATE WITH THE SUB-TRADES AS MUCH AS POSSIBLE.

If your home is being built by a contractor, be sure to inform him of your intentions, as this is an ideal time to request the installation of a separate circuit to insure sufficient power supply for your System.

The Rough-in Installation is much simpler and faster than the previously described installation for finished construction, as the entire working area is still fully exposed and more easily accessible.

For the Inlet Valve Installation follow steps 3 and 4 of the mounting plate installation diagram. When you are ready to install the Power Unit, follow the same Power Unit "Hook-up" procedure as per previous chapter.



When the Rough-in is completed, leave sufficient L.V.T Wire and pipe protruding near the intended Power Unit location so that the final connection to the Power Unit can be made easily and quickly without creating unnecessary extra work when Power Unit is installed.

On the top surface of the Inlet Kit Boxes you will find a plaster guard and a mounting plate template. Simply cut along the dotted lines and use the template to scribe the exact opening for the mounting plate.

In order to prevent construction debris from entering the installed mounting plate, firmly push plaster guard into mounting plate **as per illustration 3 of the mounting plate.**

The increased use of 2x3 wood and metal studs in North American construction methods demands fittings compatible with these building industry standards. Our 2021 HXS has been specifically designed for such purposes.

The 2021 HXS differs from the "Short 90" Ell" in that it has only 1/4" hub at the mounting plate end and features a pipe spigot at the other end. The vacuum pipe can be slid over and glued to the spigot as the outside diameter of the spigot corresponds with the inside diameter of the vacuum pipe.

Simply glue to back of the mounting plate as you would any other fitting.

The 2021 is not included in kits, but is available from your dealer

### **Second story inlet take-off from Attic to Basement drop.**

A) For confined wall space. Although not included in a kit, this special short tee is available from your dealer for 2" x 4" and 2"x 3" stud walls.

B) If space is available, use the fittings as shown in this diagram.

Both fittings are included in kits.

Make sure that the Main-to-Branch loop is always above and not below mainline as dust and dirt will collect in the bottom of a loop.

## **2- COLD AIR RETURN DUCTS**

Remove sheet metal to expose the required working area between floor joists. Remove air return grill nearest to the Inlet Valve location.

Drill 2 1/2" O Hole horizontally through stud utilizing the air-return opening for access.

Pull sufficient wire up so that it reaches the Inlet Valve.

Cut length of vertical tubing so it projects into grille opening. Seat into hub of the 90" ell below.

Slip 90" ell over exposed upper end of vertical tube in the direction of Inlet Valve location.

Cut length of horizontal tubing to size (from hub of 90" ell into hub of 90" ell that protrudes from rear of mounting plate).

Push wire and horizontal tubing through hole into stud and secure wire temporarily outside the Inlet Valve opening. Glue 90" ell to mounting plate at a 90" angle. (so it points in the direction of hole in stud).

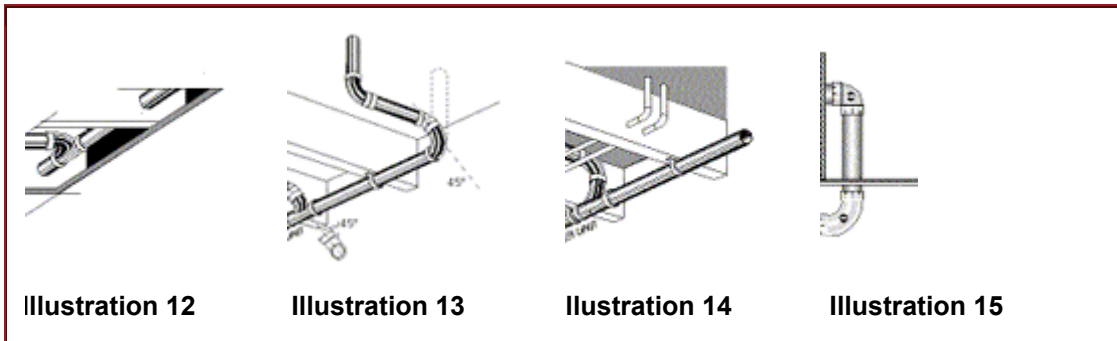
Pull wire through mounting plate and insert mounting plate into opening in wall with a tilting motion (as per illustration 7 of T31 MP installation diagram). Push assembly over tubing. This can be best achieved by using one hand to push against the 90" Ell in the grille opening while the other hand steadies the mounting plate.

Connect wire to lugs on Inlet Valve. Re-install grille and sheet metal cover.

### 3- FULLY CONCEALED INSTALLATION

Make sure to consult your local building code before drilling the 2 1/2" IZI Holes for your pipe run into floor joists. The building code will inform you at what distances from the edges of the floor joists you will be able to drill without impeding the bearing strength of the joist member.

The Hayden 90" Sweep Tee must be turned completely on its side (90" to its axis) and connected and glued to branch from inlet. After completed installation the underside of the floor joists may be completely covered.



For the Do-it-Yourselfer. Turn the 90" sweep tee 45" to it's own axis.

Insert 1 1/2" length of pipe into the upper hub of the sweep tee, slip 45" ell over exposed part of the 1 1/2" pipe and connect to branch from inlet. ( **illustration 13**).

Turn the 90" sweep tee straight up and join 90" ell by inserting a 1 1/2" length of pipe.

The 90" ell must be turned 90" to the sweep tee.

Use the increments on adjoining hubs to achieve an accurate 90" angle.

Connect and glue to branch from inlet. ( **illustration 14**).

FINISHED CLOSET INSTALLATION ( **illustration 15**).

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