

SOLIROC MÉTAL Products installation

Existing construction

- 1-From the attic down
- 2-From basement up
- 3-Gaining acces to pipe run through carpeted floor

1- FROM THE ATTIC DOWN

In order to find where to drill the holes for the Branch-lines into the plates, establish a reference point for the Inlet Valve by measuring from the center of the intended Inlet Valve location to the nearest corner of the room in which the inlet is to be located. Find this corner from the attic by peeling back the insulation to expose the top plate.

Measure the same distance you measured below from where the top plates form that corner (**Illustration 1**) You should now be in a straight vertical line directly above the Inlet Valve location. Remember whether you measured your reference point from the inside or outside corner.

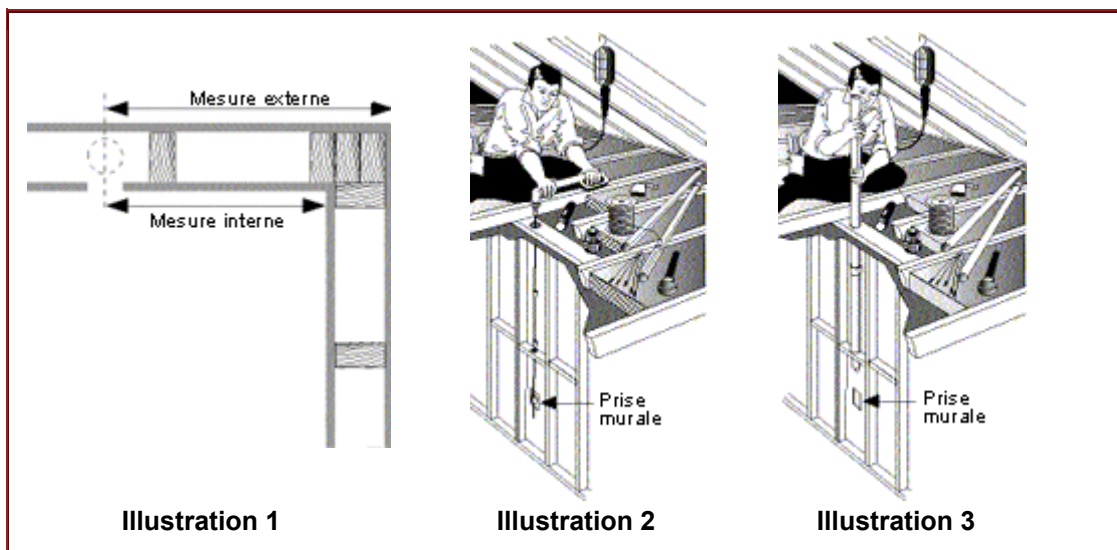
Drill a 2 1/2" hole into the center of the top plate. After you have completed this, you can visually re-check, with the use of a flashlight, that the space between the studs is free of obstruction.

As our illustration shows, you will be working in a confined space with very little head room. Use any number of extension drill bits to enable you to get to the intended location of the Inlet Valves. (**See illustration 2**).

Measure and cut pipe from the plate to Inlet Valve hole below and feed pipe through hole into space between wallboard.

It is important that you have all the necessary tools with you in the attic to save you avoidable trips through the small access openings, through which attics are commonly accessible. (**see illustration 2**)

If, due to lack of adequate vertical space, the entire length of pipe can't be inserted in one piece, then shorter sections can be cut and glued together with the use of couplings and fed into the hole in the top plate section by section until it reaches the inlet valve opening. (**see illustration 3**)



Note:

IT IS EXTREMELY IMPORTANT TO VERIFY THAT THE WALL DOES NOT CONTAIN ANY ELECTRICAL CONDUCTORS WHICH MAY INTERFERE WITH THE DRILL BIT

[Follow steps 5 through 9 of the Mounting Plate Installation Diagram for the installation of Mounting Plates and Inlet Valves.](#)

YOU ARE NOW READY FOR THE INSTALLATION OF THE MAIN-LINE.

The Main-line connects the entire System from the Inlet Valves to the Power Unit. It carries the Low-Voltage Wire along its entire run. During the layout-process you checked carefully for possible obstructions along the intended run, such as double joists, ducts, electrical wiring or water lines. Bypass these obstructions as per our illustrations.

Glue Main-line fittings to the exposed Branch pipes above the plates. Make sure each fitting points in the direction of the Power Unit. Measure and cut the pipe-lengths for the Main-line and glue into hubs of fittings leading from Branch to Branch. Apply glue to both the end of the pipe and to the inside of the hub then twist pipe into hub until firmly seated. Glue will set instantly.

Fasten Low-Voltage Wire to Pipe-run with Cable Ties approximately every 6' and at each Ell. This will prevent drooping, possible damage to wire insulation or ripping. Electrical tape may be used if double-wrapped around wire and pipe. For the proper way of Splicing revert back to our section on Wiring.

The finished installation shown in the illustration shows an air vent obstructing an intended Branch-line (**Illustration 4, dotted line**).

A 45" wye can be advantageously utilized to by-pass this and similar obstructions by installing the wye into the Main-line further downstream.

The use of a 45" wye will save you the additional installation time of two extra fittings.

The 180" "Loop" shown is further explained in **illustration 11**.

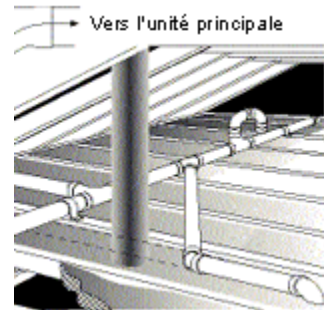


Illustration 4

2- INSTALLATION À PARTIR DU SOUS-SOL

Simply reverse the procedure of the Branch-line installation, as your Main-run will be located below instead of above the Inlet Valves. When the Main-run is installed between, or the underside of, the floor joists, the Risers and Drops can be concealed in a variety of ways.

Cold-air returns, crawlspaces and the underside of Staircases will serve as accessible spaces, through which the Main-run can pass.

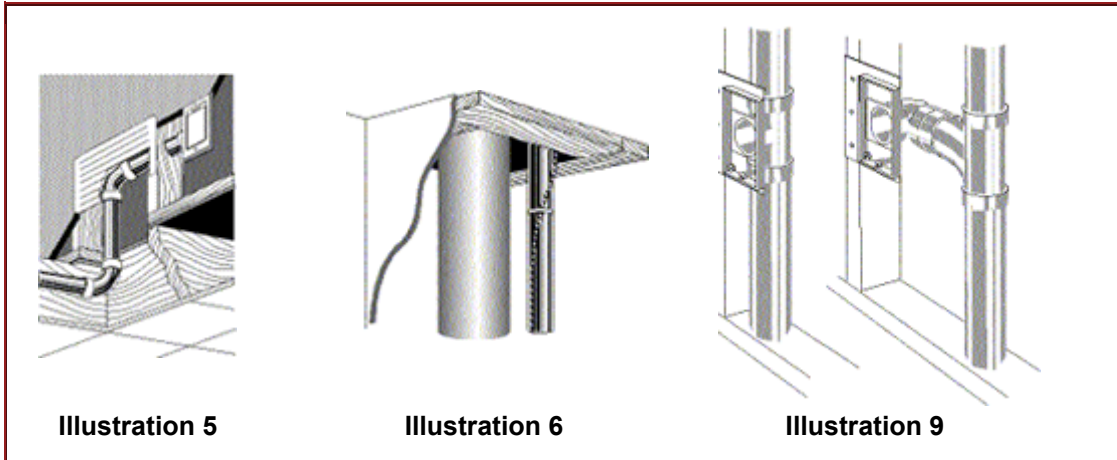


Illustration 5

Illustration 6

Illustration 9

"B-Vent" Shafts can also be utilized to bring the Main-run from one story to the next. **(See illustration 6).** Consult your local building-code first, as in some cases Metal Pipes must be used for "B-Vent" installations.

It is important that the Low-Voltage Wire be fastened to the Branch-line as it must be fed through at the same time as the pipe.

Install all the Branch-lines in the same manner, making sure that enough length of the Branch-line pipe protrudes above the plate for connection to the Main-line fittings.

3- ACCÈS AU TUYAU SOUS LE PLANCHER RECOUVERT DE MOQUETTE

Pull carpet from tackstrips. Roll back carpet and under cushioning to expose the area under which you intend to run the pipe. Pull out all nails within this area to which the underfloor has been fastened to the floor joists. With a portable circular Skillsaw, cut along the nail holes, along the center of the floor joists, setting the blades so it cuts completely through the underfloor. At each end of both cuts, cut at right angles to these cuts until the un-cut portion of the floor can be completely lifted out, leaving an opening that permits you to work unencumbered between the floor joists. After you have completed your work, insert the cut-out panel back into the opening and nail down into joists; preferably at a slight angle towards the center of the joists to avoid missing the joists. Spread the undercarpeting back into place and stretch the carpet back onto the tackstrips.

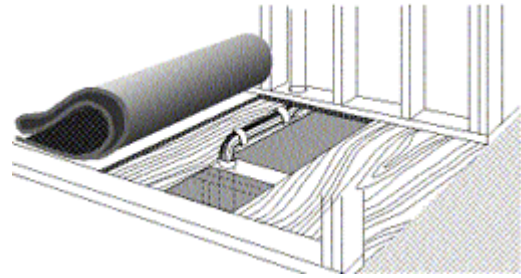


Illustration 7

With all the Branch-lines connected to the Main-line continue to install the Mainline to the Power Unit using Pipe Straps at approximately 8' intervals.

Connect pipe and Low Voltage Wire to Power Unit. Plug Power Unit into a nearby receptacle

YOUR CENTRAL VACUUM IS NOW OPERATIVE.

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