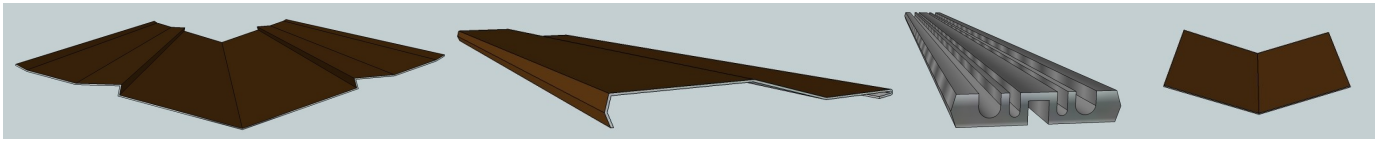
WARMZONE
PREMIER RADIANT HEATING

Installing the Sno-free Valley System for New Roofs

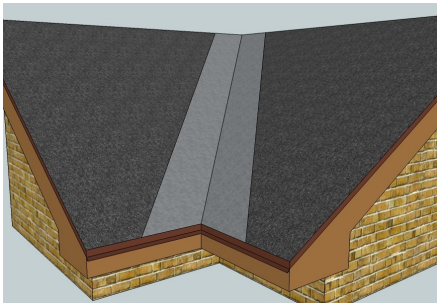


SFP – VALLEY BASE | SFP – VALLEY COVER / 2 Each | SFP – EXTRUSION | SFP – V CONNECTOR

Step # 1 **Install Ice and Water Shield over Sheeting**

Install Ice and Water Shield as per code to the sheeting.

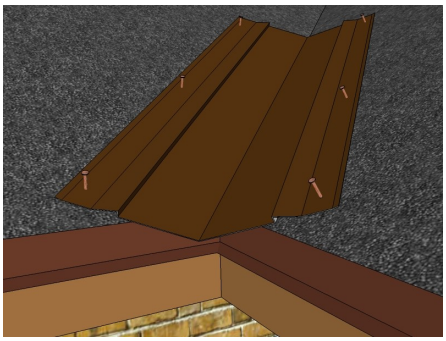
OPTIONAL: Install “Roll Valley” material in valley continuously for added protection against future possible leakage. Seal all penetrations.



Step # 2 **Install Valley Base**

Install the valley base in the valley and attach with pan headed screws or nails 1 1/2” from the lip throughout length of the valley.

Overhang the base to ensure sufficient material to cover all the ice and water shield material.

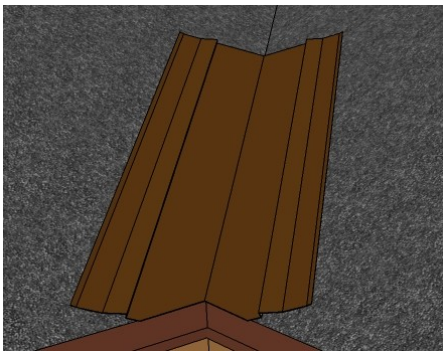


Step # 3 **Cut the base of the valley**

Cut the base material at the bottom section to allow the melted water to empty into the rain gutter (if present).

Make sure to overhang the base a minimum of 3/4” over the drip edge lip.

Remove protective plastic from metal prior to the next step.



WARMZONE
PREMIER RADIANT HEATING

Installing the Sno-free Valley System for New Roofs

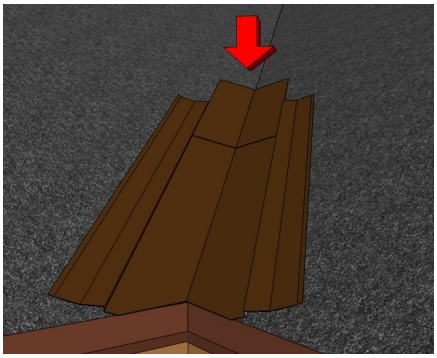
Step # 4 **Attaching the connector to the valley base**

Install the connector valley into the top portion of the valley where the next upper valley will intersect.

Lay the connector into the top of the valley tray no more than 12” past the top of the bottom valley.

Attach with screws at the top of the connector into the ice and water shield.
Do not attach the connector through the valley tray base. Seal all penetrations.

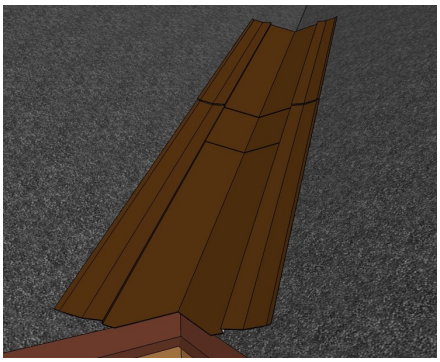
Remove protective plastic from metal prior to the next step.



Step # 5 **Install the next valley base**

Install the next course of valley base inline with the bottom base. The next course will sit on top of the valley connector that was just installed.

Do not place any fasteners inside the valley tray area, unless properly protected with sealant or gasket type screws.

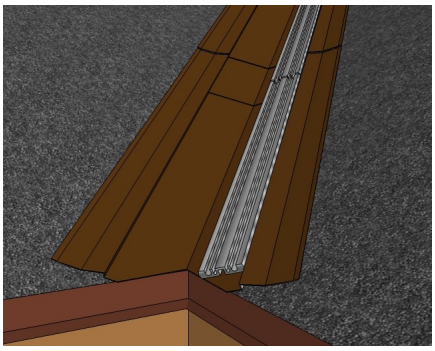


Step # 6 **Place the extrusions and Heat Trace**

Place the extrusion into the area of the valley to receive the valley cover. Apply an adhesive to hold the extrusion in place against the vertical rib on the valley base.

Install the heat trace cable or hydronic tubing into the extrusions.

HINT: If the roof is too steep to hold the extrusion in place while installing the heat source, Proceed to the next step with the cover and then slide the finished extrusion into the valley cover.

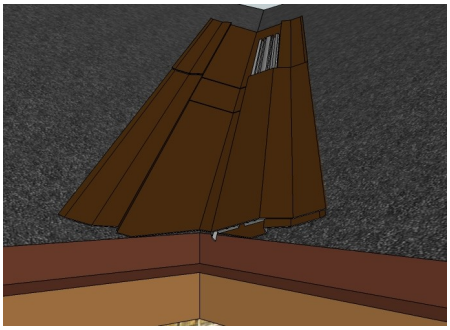


Step # 7 **Install Valley Cover**

Once all connections within the valley panel system are finished. Attach the cover by hooking the back open hem into the base lip, pulling towards the center of the valley. Once there is a proper continuous connection made, Push downward on the top in order to seat the cover on top of the extrusion.

Leave sufficient material on end to cut and bend, to cover the ends of the extrusion while keeping a clean and professional look.

Remove any protective plastic before the next step.



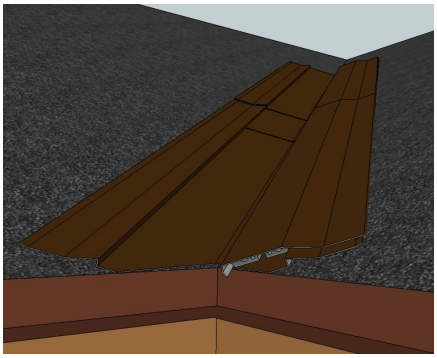
Installing the Sno-free Valley System for New Roofs

Step # 8 **Attach all Covers and Expansion Joints**

Install remaining valley cover on both sides of the valley.

Attach expansion joint covers to all joints in the valley system. Apply adequate sealant on the bottom side of the expansion joint cover to ensure that minimum amounts of water can enter into the bottom tray area.

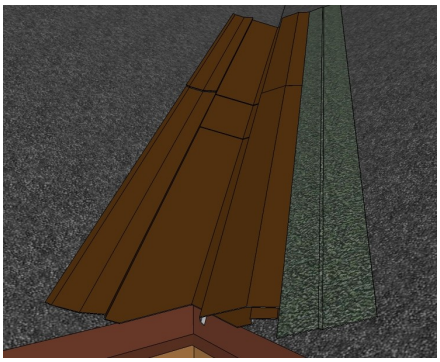
Remove all protective plastic on metal prior to the next step.



Step # 9 **Install Ice and Water Shield Strip**

Attach the last strip of Ice and Water Shield Moisture barrier. Install the barrier over the cover from the first bend in the metal to a minimum of 4” above the system onto the existing barrier installed prior to Step # 1.

Confirm that all moisture barrier is installed according to the manufacturer’s instructions.



Step # 10 **Install roofing material**

Once all steps have been followed for both sides of the valley. Finish off with your roofing material.

Cut and bend all edges to hide the extrusion as shown on the left side of the valley in the diagram to your right.

HINT: If you are combining the valley system with the SFP– Eave Panel system. We recommend the valley is installed first and terminate the eave system into the valley cover. A professional with experience in sheet metal should make this transition to keep a clean and finished look.

