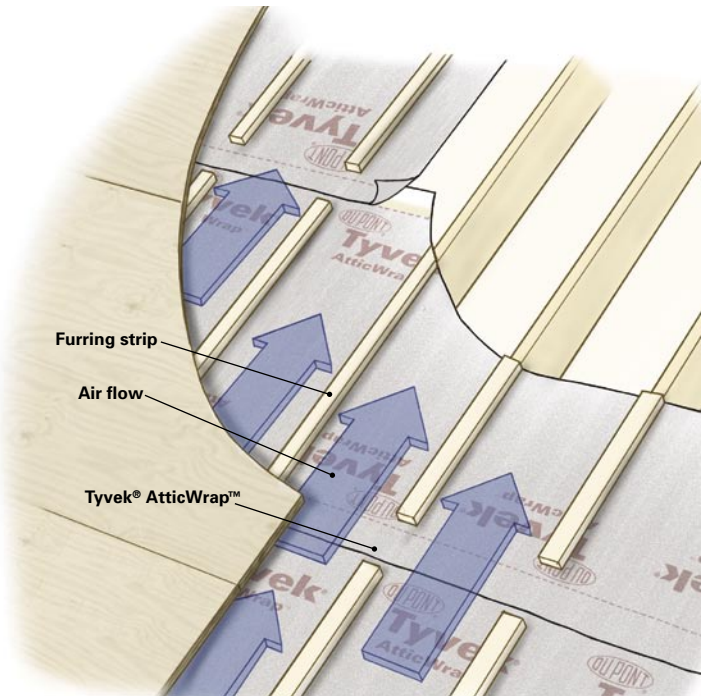


The Sealed Attic System with DuPont™ Tyvek® AtticWrap™

INSTALLATION USING FURRING METHOD



The miracles of science™



The Furring method is the simplest installation method for installing DuPont™ Tyvek® AtticWrap™. Air vent channels are created between the roof sheathing and the Tyvek® AtticWrap™ membrane by applying furring strips (strips of wood 1 in. or thicker by 1½ in. or wider) on top of each rafter over the taut stretched membrane. Vent space continuity is easy to achieve at the eave edges, hips, valleys and ridges using this method.

Installers should account for the extra thickness that the furring adds to the roof when planning fascia boards, rake boards and other roof trim.

Contractors building in high wind and seismic zones should check with an engineer or local building department before using the Furring method. The furring strips may diminish the rigidity of the roof sheathing diaphragm. The Rafter Cap or Drape installation methods may be better choices for these locales.

The Furring method is compatible with any insulation type or installation method including direct contact.

Preparation: Select the DuPont™ Tyvek® AtticWrap™ eave detail you wish to use and install the required framing, including subfascias, wall nailers, soffit blocking and rafter blocking. Complete all framing work before installing Tyvek® AtticWrap™.

WRAP TIP Sometimes the integrated adhesive strip doesn't bond completely in cold weather. After installation is complete, check joints from inside the attic and press loose areas to ensure a tight seal.

STEP ONE

Apply the eave course of Tyvek® AtticWrap™:

Snap a chalk line parallel to the eave edge approximately 12 in. to 16 in. up from the rafter tails. Roll out a section of Tyvek® AtticWrap™ with the integrated adhesive strip at the top, aligning the edge of the membrane with the chalk line. Pull the membrane taut and staple it to the tops of the rafters across the entire length of the roof.



Align Tyvek® AtticWrap™ to chalk line and fasten to the tops of the rafters

STEP TWO

Roll out the next course of Tyvek® AtticWrap™:

Align the bottom edge of the roll with the dotted line on the top edge of the course below. Staple the membrane taut to the tops of rafters, but be sure to leave the bottom 6 in. loose for sealing. Lift the bottom edge of overlying course and peel the release liner from the integrated adhesive strip on the course beneath.



Align bottom edge with dotted overlap line

Press the layers of Tyvek® AtticWrap™ together along the integrated adhesive strip to create an airtight seal.



Remove release liner, press sheets together

STEP THREE

Install furring strips over Tyvek® AtticWrap™:

Next, apply a furring strip on top of each rafter starting at the end of the rafter tail and extending up to the dotted “overlap” line along the top of the Tyvek® AtticWrap™. Furring strips should be a minimum of 1 in. thick by a minimum of 1½ in. wide. Fasten each furring strip with 10d or longer common nails spaced approximately 12 in. apart or according to the local building code nailing schedule.



Nail furring strips over rafters

STEP FOUR

Install roof sheathing over furring strips:

Snap a chalk line across the furring strips as a guide line for the top edge of the roof sheathing. Install roof sheathing following the local building code nailing schedule.



Nail roof sheathing over furring strips

STEP FIVE

Install successive courses of Tyvek® AtticWrap™, furring strips and roof sheathing:

Install the next course of Tyvek® AtticWrap™ across the rafters, again aligning it with the dotted line on the course below. Seal the lower edge to the top of the course below using the integrated adhesive strip. Install a furring



Install successive courses of Tyvek® AtticWrap™

strip on each rafter up to the integrated adhesive strip of the overlying course of Tyvek® AtticWrap™. Install roof sheathing over furring strips. Follow the same sequence until you reach the ridge.

STEP SIX

Wrap Tyvek® AtticWrap™ over the ridge:

Wrap the top course of Tyvek® AtticWrap™ over the ridge and onto the other side. Seal the overlapping edge with DuPont™ Tyvek® Tape. If the edge of the membrane overlaps less than 10 in. over the ridge, apply an additional sheet of Tyvek® AtticWrap™ at least 20 in. wide over the ridge to protect this vulnerable area.



Fold Tyvek® AtticWrap™ over the ridge and over the membrane on the other side, then tape overlap

STEP SEVEN

Cut furring strips to top of ridge and sheath:

Cut and install furring strips so that they end within 2 in. of the center of ridge board. Rip sheathing to leave an air slot at least 1½ in. wide at the ridge to exhaust the vent channels between Tyvek® AtticWrap™ and the roof sheathing. Ridge vent caps the slot and permits ventilation air to exhaust.



Install sheathing with air slot at least 1½ in. wide at ridge

VALLEY

STEP ONE

Install valley liner:

Line the valley from the top of ridge to the eave with a half width sheet of DuPont™ Tyvek® AtticWrap™. Staple the membrane taut into the valley center.



Line valley with half width sheet of Tyvek® AtticWrap™

STEP TWO

Cross-lap Tyvek® AtticWrap™ courses:

Extend each Tyvek® AtticWrap™ course through the valley center and onto the opposite roof plane by at least 12 in. Where the courses overlap, seal the top course of Tyvek® AtticWrap™ to the bottom course with DuPont™ Tyvek® Tape.



Cross-lap Tyvek® AtticWrap™ courses

STEP THREE

Attach furring strips to valley jack rafters:

Cut and install furring strips over the valley jack rafters ending them 1 in. short of the valley center. This leaves a 2 in. air vent channel in the valley. Sheath over the furring and the 2 in. space.



Nail furring strips over valley jack rafters

HIP

STEP ONE

Cross-lap Tyvek® AtticWrap™ over the hip:

Extend the sheets of Tyvek® AtticWrap™ from adjacent roof planes so that they overlap at the hip by a minimum of 12 in. Tape the overlap joint with DuPont™ Tyvek® Tape. Finish the cross-lap from both sides before installing furring strips.



Cross-lap Tyvek® AtticWrap™ courses over hip

STEP TWO

Install furring strips over hip jack rafters and sheathe:

Cut and install furring strips on top of each jack rafter up to the hip rafter. Furring strips should extend to within 1 in. of the hip rafter. Cut and install roof sheathing leaving a gap of at least 1½ in. along the hip for an air slot to exhaust the vent channels. Ridge vent caps the hip slot and permits ventilation air to exhaust. It may be necessary to apply blocking to the tail of the hip rafter to support the edge of the roof sheathing. Blocks may also be installed to the hip rafter between jacks to support the edge of the sheathing.



Fasten furring strips over hip jacks

INTAKE VENT AND EAVE SEALING DETAILS - FURRING METHOD

Install blocking and nailers before wrapping the eaves with DuPont™ Tyvek® AtticWrap™. Subfacias may be installed before or after Tyvek® AtticWrap™ is applied. Wrap the membrane around the eave and back to the wall. Lap Tyvek® AtticWrap™ over the housewrap by 6 in. and seal the joint with DuPont™ Tyvek® Tape.



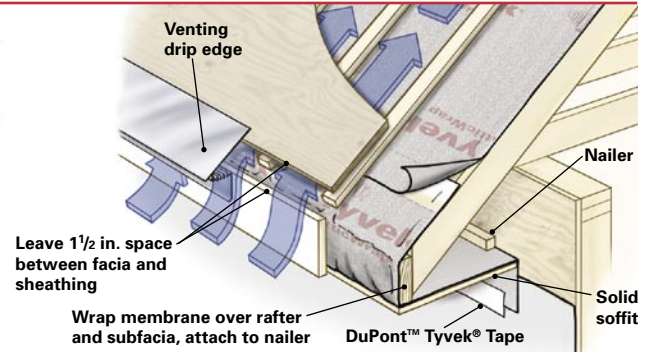
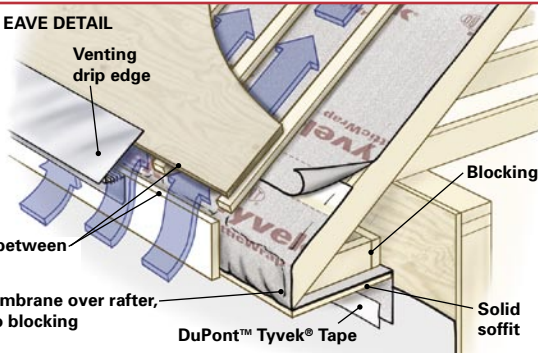
Wrap Tyvek® AtticWrap™ around the rafter tails and back to the wall

VENTING DRIP EDGE EAVE DETAIL

The Venting Drip Edge Eave details use specialty slotted drip edge as an air intake

Leave 1/2 in. space between fascia and sheathing

Wrap membrane over rafter, attach to blocking



SOFFIT VENTED EAVE DETAIL 1

Detail 1 uses a continuous soffit vent immediately behind the fascia board as an air intake

Standard drip edge

Fascia

5/4 in. x 2 in. spacer

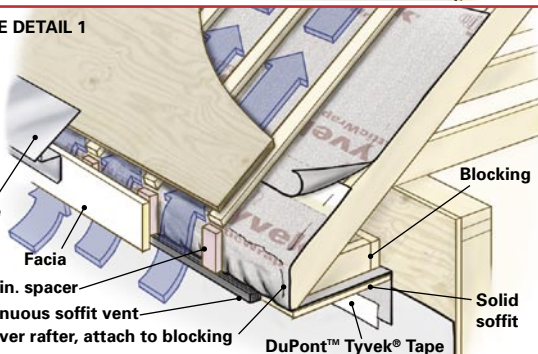
Continuous soffit vent

Wrap membrane over rafter, attach to blocking

DuPont™ Tyvek® Tape

Blocking

Solid soffit



SOFFIT VENTED EAVE DETAIL 2

Detail 2 uses a perforated soffit or any soffit vent product as an air intake

Standard drip edge

Fascia

5/4 in. x 2 in. spacer

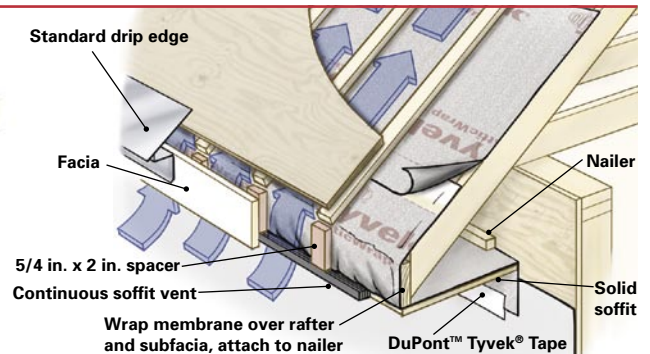
Continuous soffit vent

Wrap membrane over rafter and subfascia, attach to nailer

DuPont™ Tyvek® Tape

Nailer

Solid soffit



SOFFIT VENTED EAVE DETAIL 2

Detail 2 uses a perforated soffit or any soffit vent product as an air intake

Standard drip edge

Fascia

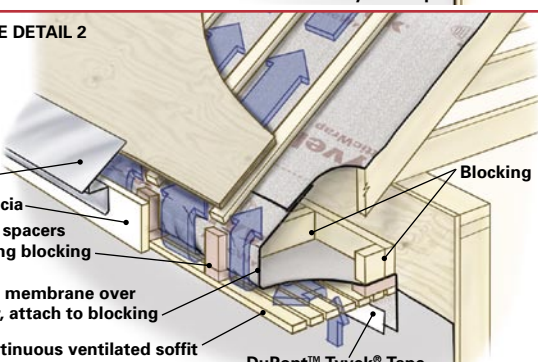
Attach 5/4 in. x 2 in. spacers at rafter tail and along blocking

Wrap membrane over rafter, attach to blocking

Continuous ventilated soffit

DuPont™ Tyvek® Tape

Blocking



SOFFIT VENTED EAVE DETAIL 2

Detail 2 uses a perforated soffit or any soffit vent product as an air intake

Standard drip edge

Fascia

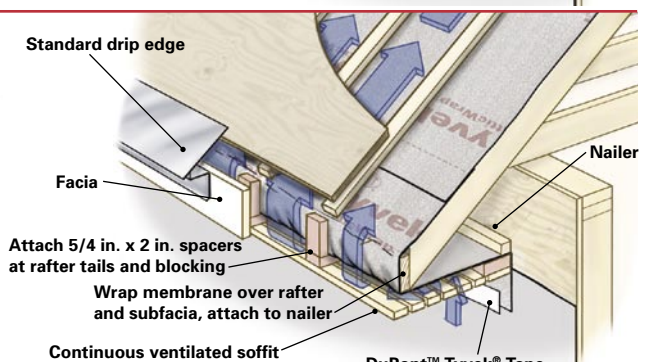
Attach 5/4 in. x 2 in. spacers at rafter tails and blocking

Wrap membrane over rafter and subfascia, attach to nailer

Continuous ventilated soffit

DuPont™ Tyvek® Tape

Nailer



WRAP TIP Full rolls of Tyvek® AtticWrap™ are bulky to work with. Precut Tyvek® AtticWrap™ on the ground to make handling easier on the roof. Cut lengths of Tyvek® AtticWrap™ 12 in. longer than the roof length when using the Furring installation method. Add an additional 3 in. per rafter or truss bay when using the Rafter Cap or Drape methods.

**For more information,
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