

RIDGE VENT

installation instructions

version 10.01.2026

Ridge Vent Product	
Cougar® LP	2
Rapid Ridge® Standard & 7	4
Roll Vent®	18
Shark Vent®	32
Xtractor Vent® X18, XLP & XLP XTRA	42

INSTALLATION INSTRUCTIONS



Requirements:

- Install on pitches 3/12 to 18/12. For pitches greater than 12/12 call technical support at 215-672-7200.
- Must be used with an equal or greater amount of soffit vent.
- 2 inch slot required at ridge.
- Must be installed with minimum nail size of 1-3/4 in.
- Can be installed with a nail gun.
- If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent. The vent should be installed on top of the felt over the shingles. If re-roofing, caulk between low areas of shingle and underside of ridge vent.
- DO NOT use multiple vent systems such as: Powered Fans, Roof Pots, Turbines, and Gable Vents
- If continuous soffit or fascia vents and ridge vents are used, other vent systems should be removed or disconnected and gable vents should be closed. The use of mixed ventilation systems, such as soffit and ridge vents in combination with a power fan could result in reverse airflow that could result in water leakage into the attic.

Step 1:

Snap chalk line and cut a slot 2" wide total along ridge (or 1" on each side of ridge beam). Allow for a closed area of sheathing 18" at both ends of ridge.

Step 2:

Ridge cap shingles are lapped over end of product and down onto ridge, so no end cap is necessary. Run vent to 12 inches from gable ends. Center vent over slot at one end with flat side facing up. Fasten with two nails; minimum nail size 1 3/4 in. If using nail gun, recommended compressor pressure is between 90 and 100 psi. Roll out length of ridge, pull out slack, and fasten with two nails at opposite ends.

Step 3:

Center ridge cap shingles over vent and install with minimum 1 3/4" nails. Assure nails penetrate into sheathing 3/4" or completely through sheathing. Cap shingles can be laid down over end of vent onto ridge out to gable ends.



STEEP ROOF PITCHES

As a roof's pitch becomes steeper, the effective opening of the slot becomes smaller. To provide effective ventilation, the slot cut must be wider than normal.

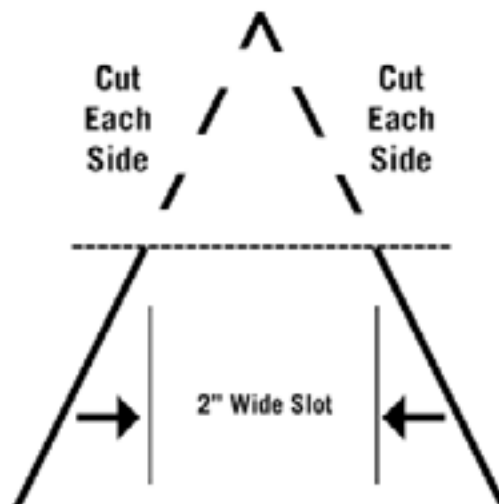
CAUTION: on steep pitch roof conditions verify proper clearance from edge of sheathing prior to nailing.

The following chart gives the necessary measurements for steeper than 12/12 pitches:

PITCH	EACH SIDE
13/12	1 7/16 in *(2 7/8 in total)
14/12	1 1/2 in *(3 in total)
15/12	1 5/8 in *(3 1/4 in total)
16/12	1 11/16 in *(3 3/8 in total)
17/12	1 3/4 in *(3 1/2 in total)
18/12	1 13/16 in *(3 5/8 in total)

Under no circumstances should Cougar Ridge Vent be installed on pitches greater than 18/12. This steep pitch application is for ridge installations only.

The presence of a ridge beam may slightly reduce ventilation effectiveness.



RAPID RIDGE®

STANDARD / 7



RAPID RIDGE®
NAIL-GUNNABLE
RIDGE VENT

Installation Considerations

DO NOT use multiple vent systems such as:

Powered Fans
Roof Pots
Turbines
Gable Vents

If continuous soffit or fascia vents and ridge vents are used, other vent systems should be removed or disconnected and gable vents should be closed. The use of mixed ventilation systems, such as soffit and ridge vents in combination with a power fan could result in reverse airflow that could result in water leakage into the attic.

Rapid Ridge Standard General Installation

Requirements:

- Install on pitches 3/12 to 18/12. See page 5 for pitches greater than 12/12.
- Must be used with an equal or greater amount of soffit vent.
- 3 inch slot required at ridge.
- Must be installed with minimum nail size of 1 3/4 inches.
- If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent. The vent should be installed on top of the felt over the shingles. If re-roofing, caulk between low areas of shingle and underside of ridge vent.

Step 1:

Snap chalk line and cut a slot 3 inches wide (1 1/2 inches on each side of ridge beam). Allow for a closed area of sheathing 18 inches at both ends of ridge.

Step 2:

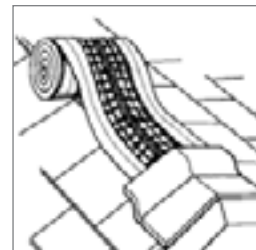
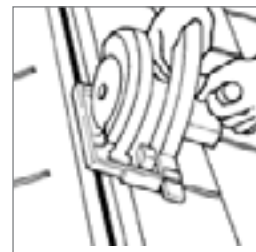
No end cap is necessary if ridge cap shingles are lapped over end of product and down onto ridge. In this case, run vent to 12 inches from gable ends. Cap shingles can be laid down over end of vent onto ridge out to gable ends. Optionally, Rapid Ridge can be installed right to gable ends using an integral end cap. To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Start and end vent installation 1 inch from gable ends.

Step 3:

Center vent over slot at one end with printed logo side “up” and fasten with two nails (note: minimum nail length is 1 3/4 inches). Recommended nail gun compressor pressure is between 90 and 100 psi. Roll out along entire ridge, pull out slack, and fasten with two nails at opposite end (creating end cap at other end if using that method). Center ridge cap shingles over vent and install with 1 3/4 inches collated nails provided. Use nail line as placement guide. If using fabric end cap, hang shingles 1 inch over vent at gable ends. Nails must penetrate into sheathing 3/4 inch or completely through the sheathing.

Step 4:

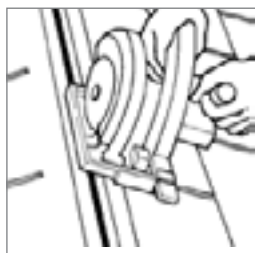
To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.



Rapid Ridge 7 General Installation

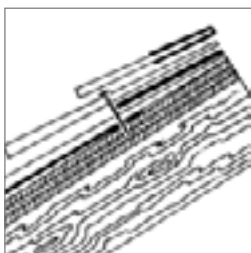
Requirements:

- Install on pitches 3/12 to 12/12.
- Must be used with an equal or greater amount of soffit vent.
- 2 inch slot required at ridge.



Step 1:

Snap chalk line and cut slot 2 inches wide (1 inch on each side). Allow for a closed area of sheathing 12 inches at both ends of the ridge.



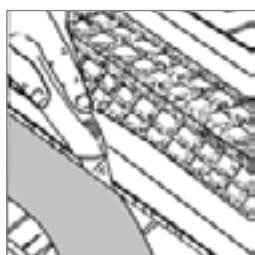
Step 2:

Fold 30 lb. felt back over last course of shingles/shakes/tiles exposing 2 inch slot. (When cutting last course of shingles/shakes/tiles, use caution to avoid cutting through felt.)



Step 3:

To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Center vent over slot at one end with printed logo side "up" and fasten with two nails. Roll out along entire ridge, pull out slack, and fasten with two nails at opposite end (creating end cap at other end). Start and end vent installation 1 inch from gable ends.



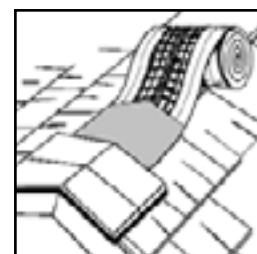
Step 4:

Cut exposed excess felt away on shingles/shakes/ tiles. In areas of severe weather or rough hand split shakes, lay a bead of caulk between felt and Rapid Ridge 1/4 inch in from edge for entire length of Rapid Ridge.



Step 5:

Install 30 lb felt 7 inches wide on top of entire length of Rapid Ridge (optional on asphalt shingles).



Step 6:

Center ridge cap shingles/ shakes/ tiles over vent and install with appropriate nails. Use nail length that penetrates into sheathing 3/4 inch or completely through the sheathing. Nail approximately 1 3/4 inches in from ridge cap edge on nailing rib indicated by nailing line. Hang shingles 1 inch over vent at gable ends.



Step 7:

To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.

Steep Pitch Guidelines (Standard)

As a roof's pitch becomes steeper, the effective opening of the slot becomes smaller. To provide effective ventilation, the sheathing cut must be wider than normal.

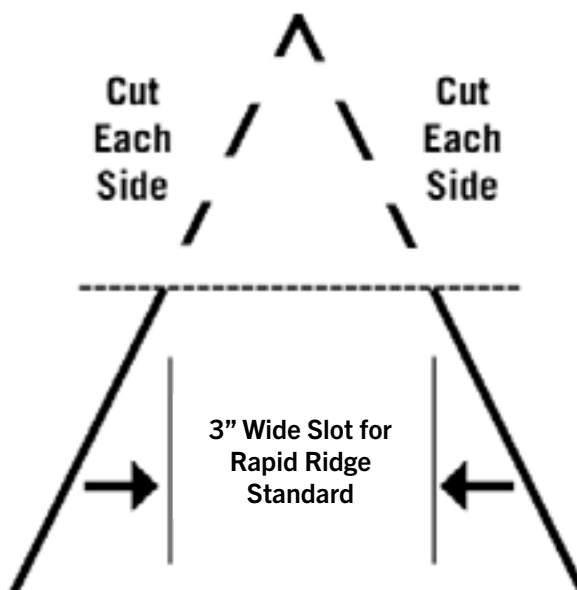
CAUTION: on steep pitch roof conditions verify proper clearance from edge of sheathing prior to nailing.

The following chart gives the necessary measurements for steeper than 12/12 pitches:

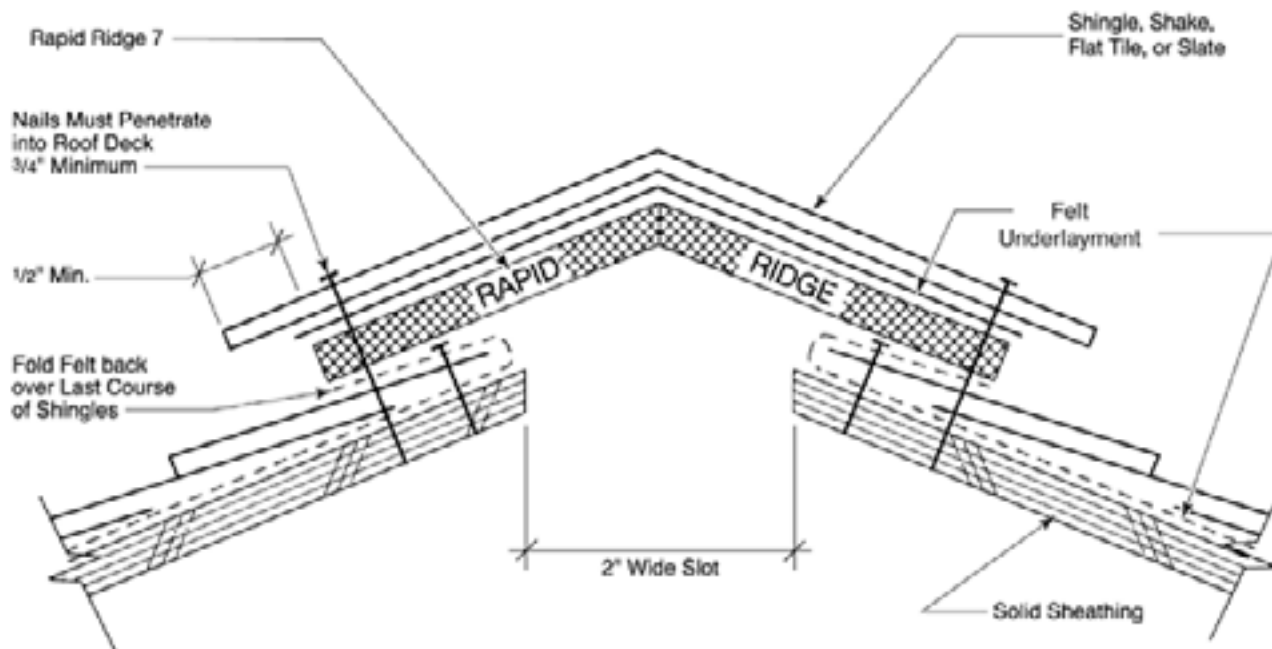
PITCH	EACH SIDE (Standard)
13/12	2 3/16 in *(4 3/8 in total)
14/12	2 1/4 in *(4 1/2 in total)
15/12	2 3/8 in *(4 3/4 in total)
16/12	2 1/2 in *(5 in total)
17/12	2 5/8 in *(5 1/4 in total)
18/12	2 11/16 in *(5 3/8 in total)

Under no circumstances should Rapid Ridge be installed on pitches greater than 18/12. This steep pitch application is for ridge installations using Rapid Ridge Standard (10 1/2 inches) only.

The presence of a ridge beam may slightly reduce ventilation.



Rapid Ridge 7 General Installation



Note:

Rapid Ridge 7 can be installed with 8 inches to 11 inches cedar, flat tile, slate, or 8 inches asphalt fiberglass shingles. Rapid Ridge 7 is not recommended for ridge beam applications. Rapid Ridge 7 must be installed on roofs with a minimum of 3/12 pitch and maximum pitch of 12/12. Install with continuous soffit ventilation at each eave equivalent to 7 sq. in. per linear foot.

1. Snap chalk line and cut slot 2 inches wide (1 inch on each side). Allow for a closed area of sheathing 12 inches at both ends of the ridge.

2. Fold felt back over last course of shingles/shakes/tiles exposing 2 inch slot. (When cutting last course of shingles/shakes/tiles, use caution to avoid cutting through felt.)

3. To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Center vent over slot at one end with printed logo side "up" and fasten with two nails. Roll out along entire ridge, pull out slack, and fasten with two

nails at opposite end (creating end cap at other end). Start and end vent installation 1 inch from gable ends.

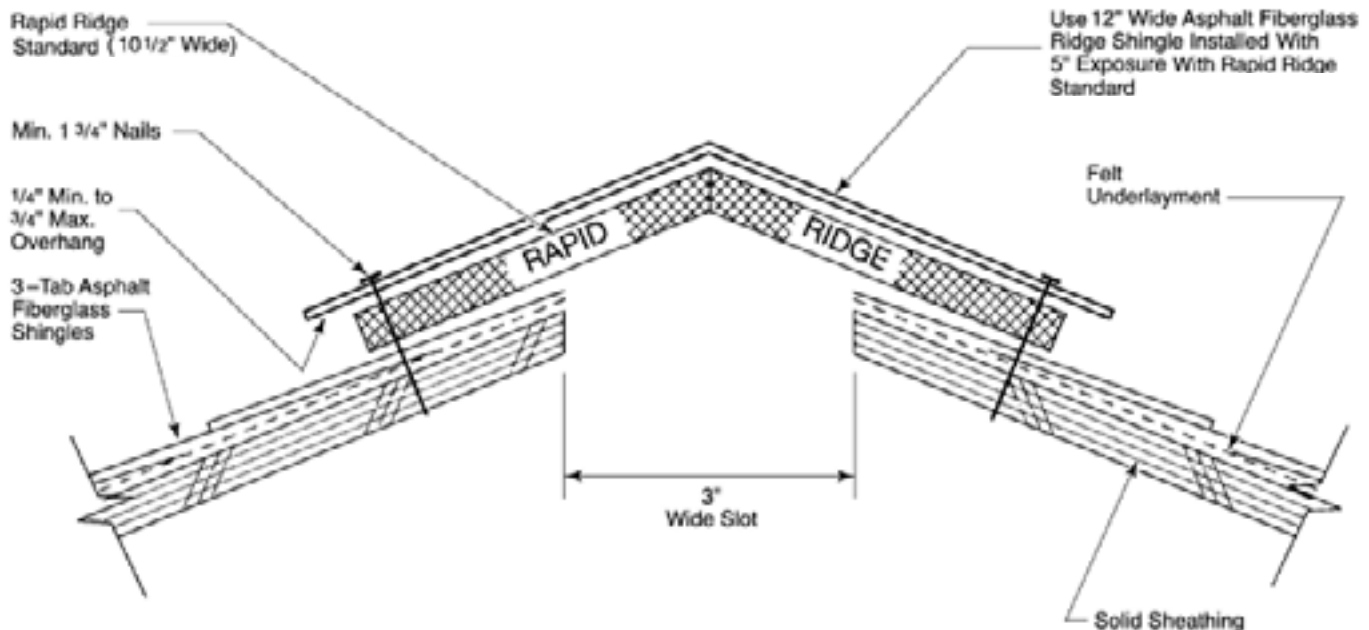
4. Cut exposed excess felt away on shingles/shakes/tiles. In areas of severe weather or rough hand split shakes, lay a bead of caulk between felt and Rapid Ridge 1/4 inch in from edge for entire length of Rapid Ridge.

5. Install felt 7 inches wide on top of entire length of Rapid Ridge (optional on asphalt shingles).

6. Center ridge cap shingles/shakes/tiles over vent and install with appropriate nails. Use nail length that penetrates into sheathing 3/4 inch or completely through the sheathing. Nail approximately 1 3/4 inches in from ridge cap edge on nailing rib indicated by nailing line. Hang shingles 1 inch over vent at gable ends.

7. To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.

Asphalt Shingles Detail (Standard)



Note:

Install with continuous soffit ventilation at each eave equivalent to 7 sq. in. per linear foot. Installs on pitches 3/12 to 18/12. For pitches greater than 12/12, refer to page 5.

Use Rapid Ridge Standard (10 1/2 inches) for 12 inches cap shingles.

If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent so that vent is essentially installed on top of felt over the shingles. If re-roofing, caulk between low areas of shingle and baffle of vent after installation.

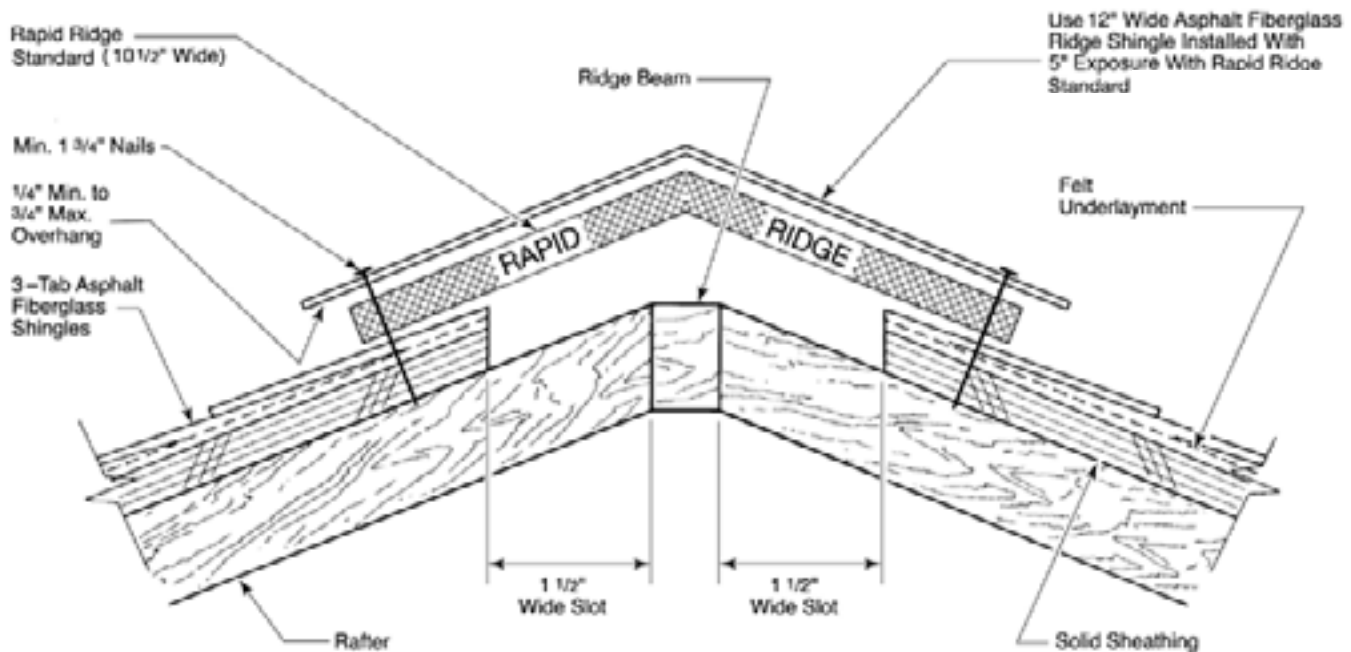
1. Snap chalk line and cut a slot 3 inches wide (1 1/2 inches on each side of ridge beam). Allow for a closed area of sheathing 18 inches at both ends of ridge.
2. No end cap is necessary if ridge cap shingles are lapped over end of product and down onto ridge. In this case, run vent to 12 inches from gable ends. Cap shingles can be laid down over end of vent onto ridge out to gable ends.

Optionally, Rapid Ridge can be installed right to gable ends using an integral end cap. To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Start and end vent installation 1 inch from gable ends.

3. Center vent over slot at one end with printed logo side "up" and fasten with two nails (note: minimum nail length is 1 3/4 inches). Recommended nail gun compressor pressure is between 90 and 100 psi. Roll out along entire ridge, pull out slack, and fasten with two nails at opposite end (creating end cap at other end if using that method). Center ridge cap shingles over vent and install with 1 3/4 inch collated nails provided. Use nail line as placement guide. If using fabric end cap, hang shingles 1 inch over vent at gable ends. Nails must penetrate into sheathing 3/4 inch or completely through the sheathing.

4. To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.

Ridge Beam Detail (Standard)



Note:

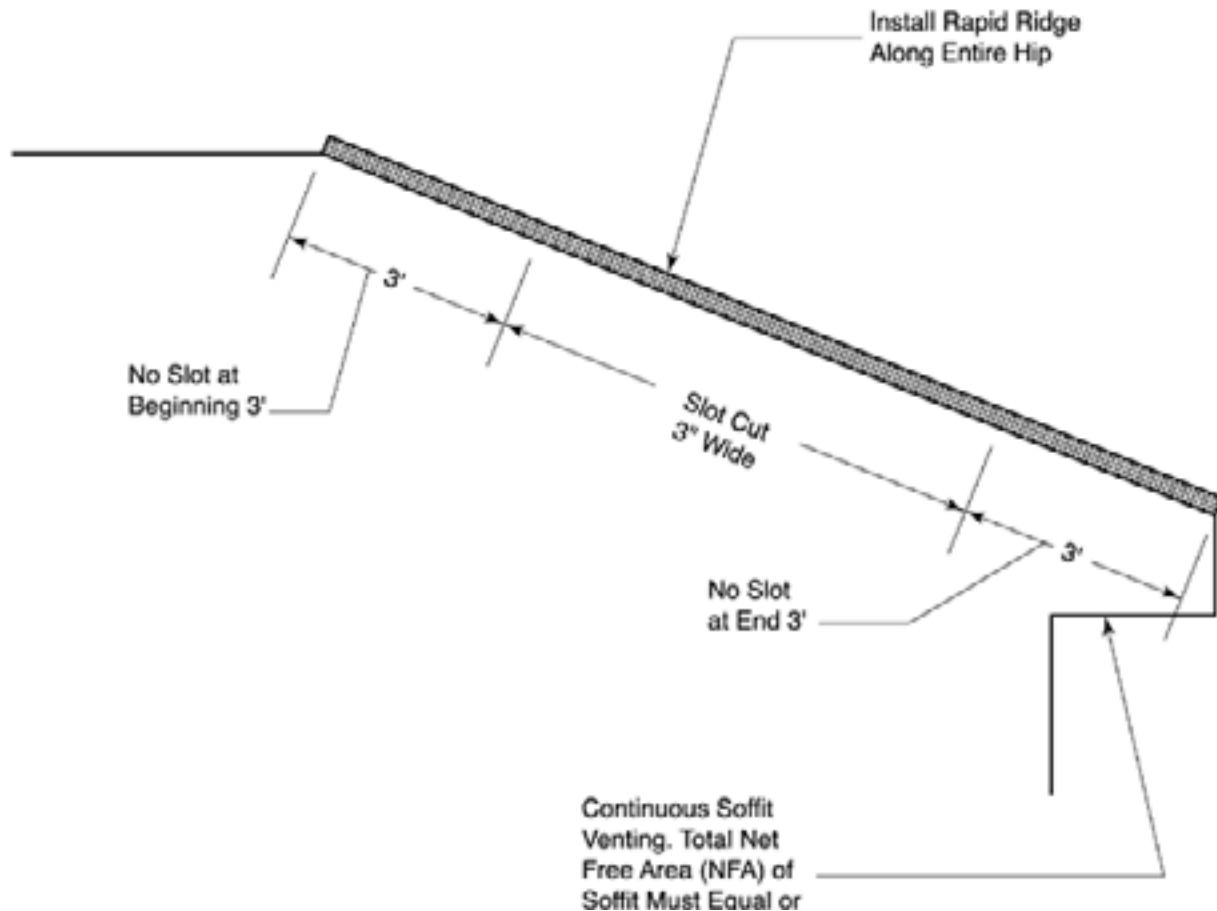
If ridge beam is wider than 2 inches, refer to Rapid Ridge Off Peak Application. Install with continuous soffit ventilation at each eave equivalent to 7 sq. in. per linear foot. Installs on pitches 3/12 to 18/12. For pitches greater than 12/12, refer to page 5. Use Rapid Ridge Standard (10 1/2 inches) for 12 inches cap shingles. If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent so that vent is essentially installed on top of felt over the shingles. If re-roofing, caulk between low areas of shingle and baffle of vent after installation.

1. Snap chalk line and cut slot 1 1/2 inches on each side of ridge beam. Allow for a closed area of sheathing 18 inches at both ends of ridge.
2. No end cap is necessary if ridge cap shingles are lapped over end of product and down onto ridge. In this case, run vent to 12 inches from gable ends. Cap shingles can be laid down over end of vent onto ridge out to gable ends. Cap shingles can be laid down over end of vent onto ridge out to

gable ends. Optionally, Rapid Ridge can be installed right to gable ends using an integral end cap. To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Start and end vent installation 1 inch from gable ends.

3. Center vent over slot at one end with printed logo side "up" and fasten with two nails (note: minimum nail length is 1 3/4 inches). Recommended nail gun compressor pressure is between 90 and 100 psi. Roll out along entire ridge, pull out slack, and fasten with two nails at opposite end (creating end cap at other end if using that method). Center ridge cap shingles over vent and install with 1 3/4 inch collated nails provided. Use nail line as placement guide. If using fabric end cap, hang shingles 1 inch over vent at gable ends. Nails must penetrate into sheathing 3/4 inch or completely through the sheathing.
4. To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.

Hip Roof Detail (Standard)



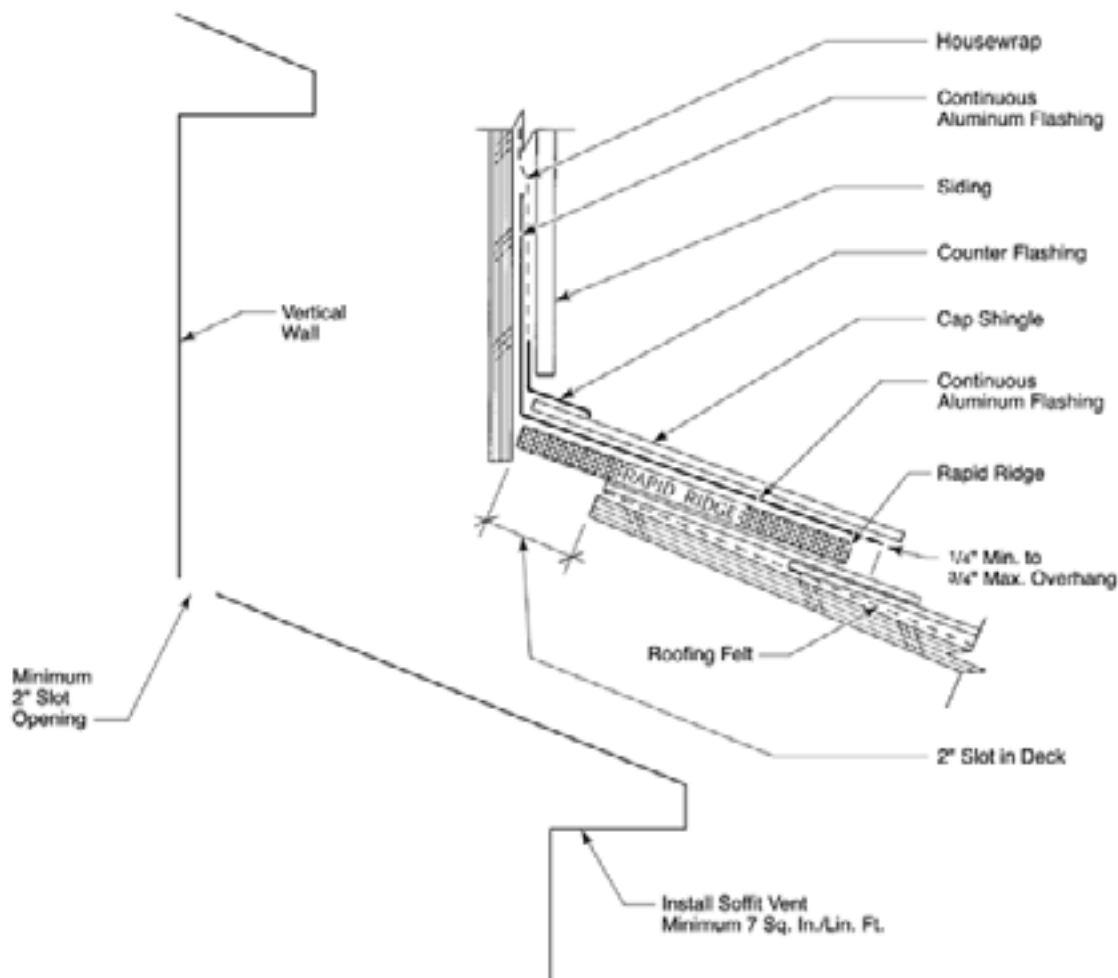
Note:

Hip application not to exceed 12/12 pitch.

Cut slot in roofing along hip 3 inches wide beginning 3' from peak and running to 3' of end of hip. Start Rapid Ridge a minimum of 1 inch from each end of the hip using the end cap installation (pg 7). Install ridge/hip cap shingles over vent and install with 1 3/4 inch collated nails provided. Use nail line as placement guide. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Ridge cap shingles must overhang Rapid Ridge by 1 inch at each hip end.

Run bead of sealant along bottom edge of Rapid Ridge where it meets shingles on roof deck. Hip application is for Rapid Ridge Standard (10 1/2 inches)

Shed Roof Detail (Standard)



Note:

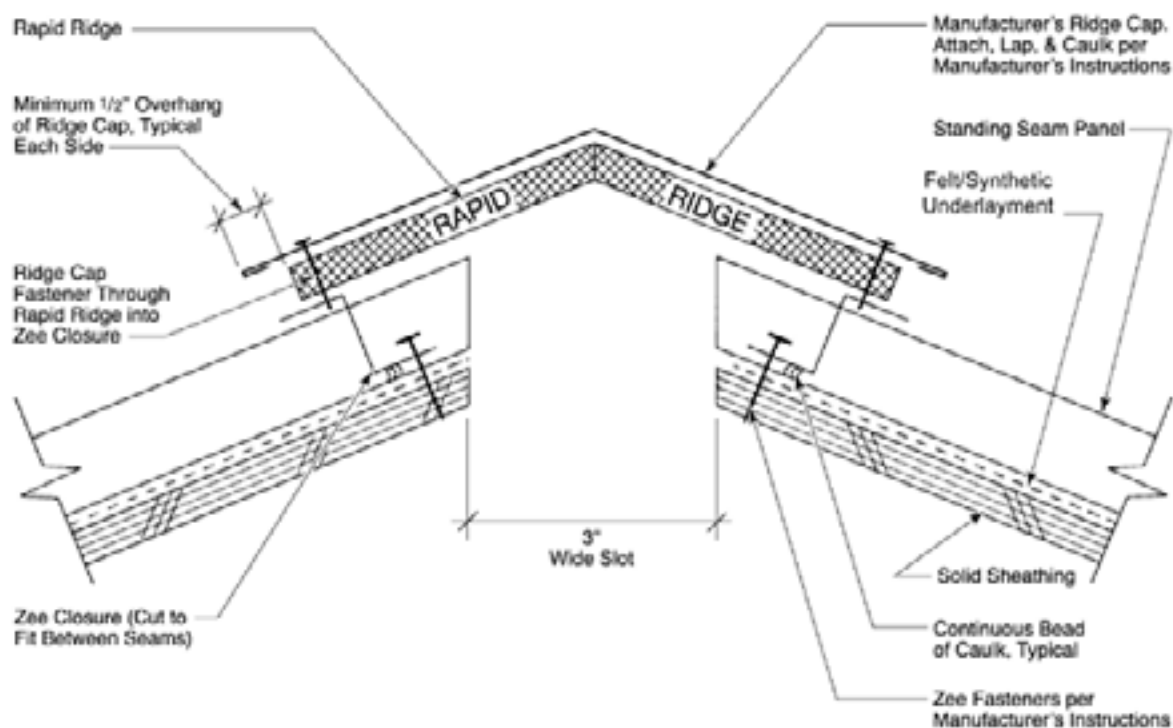
Rapid Ridge will only vent 6.25 sq. in. per linear foot in this application. The Venturi effect will be limited.

Cut a slot 2 inches wide in roof deck where roof meets vertical wall. Allow for a closed area of sheathing 6 inches at both ends.

Start Rapid Ridge a minimum of 1 inch from each end of roof using the end cap installation (pg 7). Center ridge cap shingles over vent and install with minimum 1 3/4 inch nails. Use nail line as placement guide. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Ridge cap shingles must overhang Rapid Ridge by 1 inch minimum at each gable end.

For added weather protection, install counter flashing behind siding and over top of cap shingle.

Standing Seam Detail (Standard)

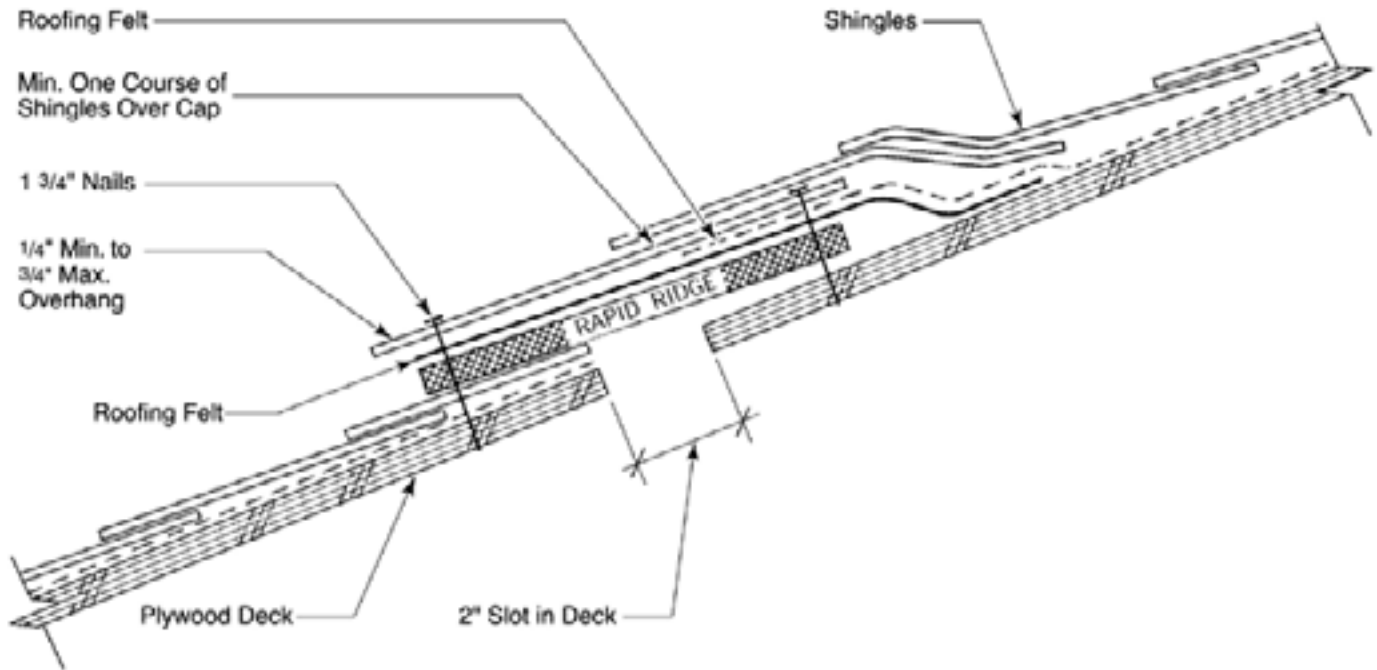


Note:

Install with continuous soffit ventilation at each eave equivalent to 7 sq. in. per linear foot.

Rapid Ridge available in Standard (10 1/2 inches), and 7 (7 inches) widths. Choose width that will allow ridge cap to overhang Rapid Ridge by 1/2 inch minimum on each side. If using Rapid Ridge 7, slot should only be 2 inches wide.

Off Peak Detail (Standard)



Note:

Rapid Ridge will only vent 6.25 sq. in. per linear foot in this application and must be installed with a soffit vent with a minimum of 7 sq. in. per linear foot net free area. It is recommended that Rapid Ridge and soffit vent be installed on both sides of the peak.

1. Cut 2 inches wide slot in deck no more than 4' from ridge and no closer than 4' from eave. Allow for closed area of sheathing with no slot approximately 6 inches at both ends.
2. Install felt per manufacturer's instructions onto deck leaving slot exposed. Do not nail or staple through felt within 8 inches of slot opening on high side of slot.
3. Shingle per manufacturer's instructions up to slot.
4. Center Rapid Ridge over slot, tack down at end and roll out. Start Rapid Ridge a minimum of 1 inch from each end of roof using the end cap installation (pg 7).

5. Install minimum 14 inches wide 30 lb. felt on top of Rapid Ridge and lap felt from deck on top of this course of felt.

6. Install one-tab ridge cap shingles over felt and Rapid Ridge with 1 3/4 inch collated nails provided. Use nail line as placement guide. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Ridge cap shingles must overhang Rapid Ridge by 1 inch at each gable end. Ridge cap shingles should overhang Rapid Ridge by 1/4 inch minimum to 3/4 inch maximum on each side. Three-tab shingles can be used as this course provided minimum 1 3/4 inch nails are placed on each tab 1 inch from lower edge of Rapid Ridge and nail heads are sealed in caulk.

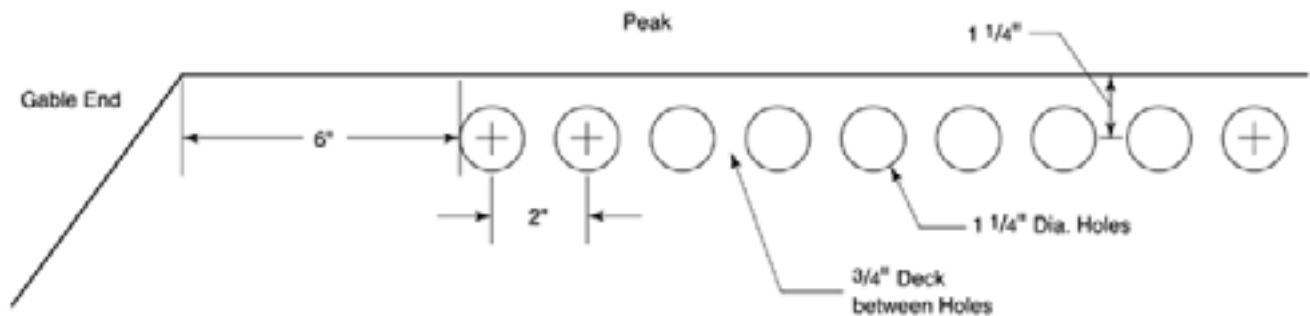
7. Install minimum one course of shingles lapped on top of cap. Install rest of shingles per manufacturer's instructions.

Cathedral Ceilings (**Standard, 7**)

Cathedral or vaulted ceilings present some unique ventilating situations that need to be addressed up front to avoid condensation problems down the road. A cathedral ceiling is typically constructed utilizing 2 x 8 rafters on 16 inch or 24 inch centers; plywood roof decking on top of the rafters; and drywall, which becomes the ceiling of the room below, on the bottom of the rafters. Since this rafter space becomes the only separation between living space and outside temperatures, many builders want to install as much insulation as possible in this space. This causes a problem by restricting the air flow capability from soffit (intake) to ridge (exhaust) within these rafter spaces. This usually shows up in the form of condensation. The following are tips to follow when designing or installing Rapid Ridge for use in cathedral/vaulted ceilings:

1. Be sure to properly “balance” the Rapid Ridge total net free area with soffit vent total net free area. Strip soffit vent with a net free area of at least 9 sq. in. per linear foot is necessary.
2. Install Rapid Ridge and soffit venting continuously along the ridge and eave overhang, respectively. Each rafter space must have air flow.
3. Install “vent chutes” between the rafters from the soffit to the ridge. This assures at least 1 1/2 inch of unobstructed air space between the bottom of the deck and top of the insulation.
4. Install a vapor barrier on the “warm” side of the insulation to provide a block against living area moisture migrating into the rafter spaces. Following the above procedures will minimize the potential for condensation-related problems in cathedral or vaulted ceilings.

No-Slot Vent Detail (Standard)



In certain areas of the United States, building codes do not allow for a continuous slot to be cut into the roof structure. This is especially true on the west coast and other earthquake-prone areas. Rapid Ridge can be installed on a roof without a continuous slot.

Drill 1 1/4 inch holes every 2 inches on center (this will leave 3/4 inch of deck between each hole) and 1 1/4 inches on center from the peak of the roof. From each gable end, leave 6 inches with no holes cut.

This installation will work with/without the presence of a 2X ridge beam. Rapid Ridge will vent 4.3 sq. in. per linear foot in this application.

Installation Instructions

ROLL VENT®

STANDARD



ROLL VENT®
C O N T I N U O U S
R I D G E V E N T

Installation Considerations

DO NOT use multiple vent systems such as:

- Powered Fans
- Roof Pots
- Turbines
- Gable Vents

If continuous soffit or fascia vents and ridge vents are used, other vent systems should be removed or disconnected and gable vents should be closed. The use of mixed ventilation systems, such as soffit and ridge vents in combination with a power fan could result in reverse airflow that could result in water leakage into the attic.

Roll Vent Standard General Installation

Requirements:

- Install on pitches 3/12 to 18/12. See page 4 for pitches greater than 12/12.
- Must be used with an equal or greater amount of soffit vent.
- 3 1/2 inch slot required at ridge.
- Must be installed with minimum nail size of 2 1/2 inches.
- If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent. The vent should be installed on top of the felt over the shingles. If re-roofing, caulk between low areas of shingle and underside of ridge vent.

Step 1:

Snap chalk line and cut a slot 3 1/2 inches wide (1 3/4 inch on each side of ridge beam). Allow for a closed area of sheathing 18 inches at both ends of ridge.

Step 2:

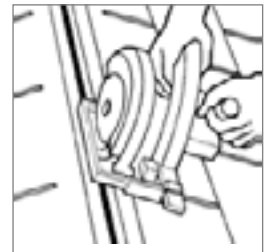
No end cap is necessary if cap shingles are lapped over end of product and down onto ridge. In this case, run vent to 12 inches from gable ends. Cap shingles can be laid down over end of vent onto ridge out to gable ends. Optionally, Roll Vent can be installed right to gable ends using an integral end cap. To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Start and end vent installation 1 inch from gable ends.

Step 3:

Center vent over slot at one end with printed logo side “up” and fasten with two nails (note: minimum nail length is 2 1/2 inches). Roll out along entire ridge, pull out slack, and fasten with two nails at opposite end (creating end cap at other end if using that method). Center cap shingles over vent and install with 2 1/2 inch nails provided. Use nail line as placement guide. If using fabric end cap, hang shingles 1 inch over vent at gable ends. Nails must penetrate into sheathing 3/4 inch or completely through the sheathing.

Step 4:

To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.



Steep Pitch Guidelines (Standard)

As a roof's pitch becomes steeper, the effective opening of the slot becomes smaller. To provide effective ventilation, the sheathing cut must be wider than normal.

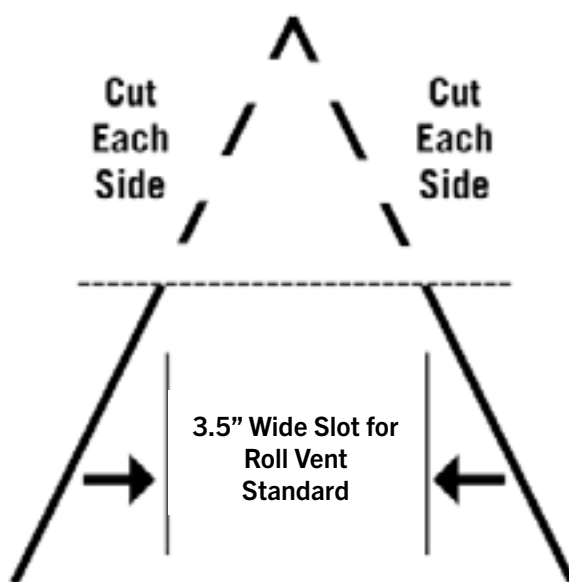
CAUTION: on steep pitch roof conditions verify proper clearance from edge of sheathing prior to nailing.

The following chart gives the necessary measurements for steeper than 12/12 pitches:

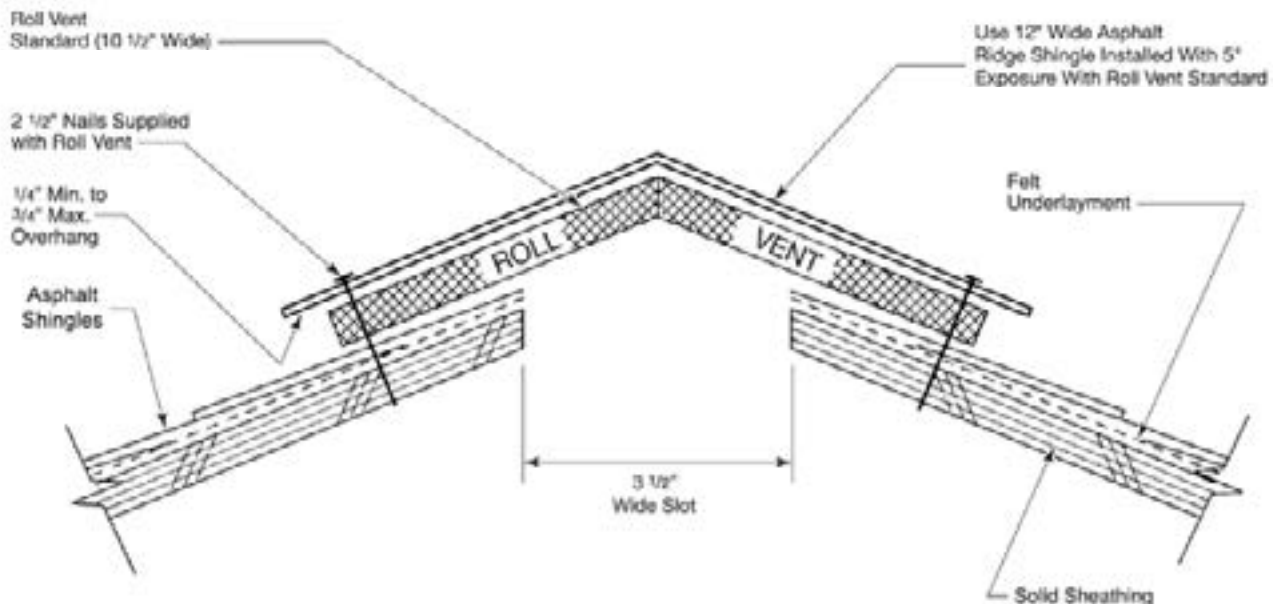
PITCH	EACH SIDE (Standard)
13/12	2 5/8 in *(5 1/4 in total)
14/12	2 3/4 in *(5 1/2 in total)
15/12	2 7/8 in *(5 3/4 in total)
16/12	3 in *(6 in total)
17/12	3 1/8 in *(6 1/4 in total)
18/12	3 1/4 in *(6 1/2 in total)

Under no circumstances should Roll Vent be installed on pitches greater than 18/12.

The presence of a ridge beam may slightly reduce ventilation.



Asphalt Shingles Detail (Standard)



Note:

Install with continuous soffit ventilation at each eave equivalent to 9 sq. in. per linear foot. Installs on pitches 3/12 to 18/12. For pitches greater than 12/12, refer to page 4.

Use Roll Vent Standard (10 1/2 inches) for 12 inch cap shingles. If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent so that vent is essentially installed on top of felt over the shingles. If re-roofing, caulk between low areas of shingle and vent after installation.

1. Snap chalk line and cut slot 3 1/2 inches wide (1 3/4 inches on each side of ridge beam). Allow for a closed area of sheathing 18 inches at both ends of the ridge.

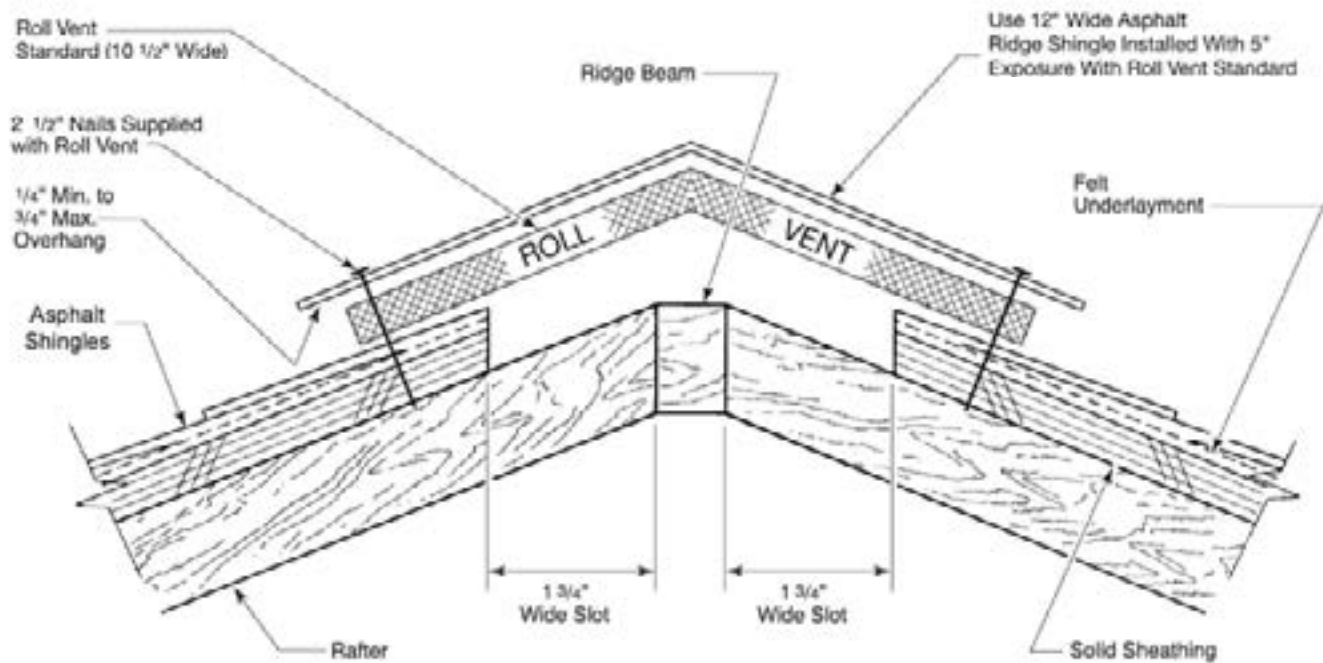
2. No end cap is necessary if cap shingles are lapped over end of product and down onto ridge. In this case, run vent to 12 inches from the gable ends. Cap shingles can be laid down over end of vent onto ridge and out to gable ends. Optionally, Roll Vent can be installed

right to gable ends using an integral end cap. To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Start and end vent installation 1 inch from gable ends.

3. Center vent over slot at one end with printed logo side "up" and fasten with two nails (note: minimum nail length is 2 1/2 inches). Roll out along entire ridge, pull out slack, and fasten with two nails at opposite end (creating end cap at other end if using that method). Center cap shingles over vent and install with 2 1/2 inch nails provided. Use nail line as placement guide. If using fabric end cap, hang shingles 1 inch over vent at gable ends. Nails must penetrate 3/4 inch into sheathing or completely through the sheathing.

4. To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.

Ridge Beam Detail (Standard)



Note:

If ridge beam is wider than 2 inches, refer to Roll Vent Off Peak Installation.

Install with continuous soffit ventilation at each eave equivalent to 9 sq. in. per linear foot. Installs on pitches 3/12 to 18/12. For pitches greater than 12/12, refer to page 4. Use Roll Vent Standard (10 1/2 inches) for 12 inch cap shingles. If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent so that vent is essentially installed on top of felt over the shingles.

If re-roofing, caulk between low areas of shingle and vent after installation.

1. Snap chalk line and cut a slot 1 3/4 inches on each side of ridge beam. Allow for a closed area of sheathing with no slot 18 inches at both ends of ridge.

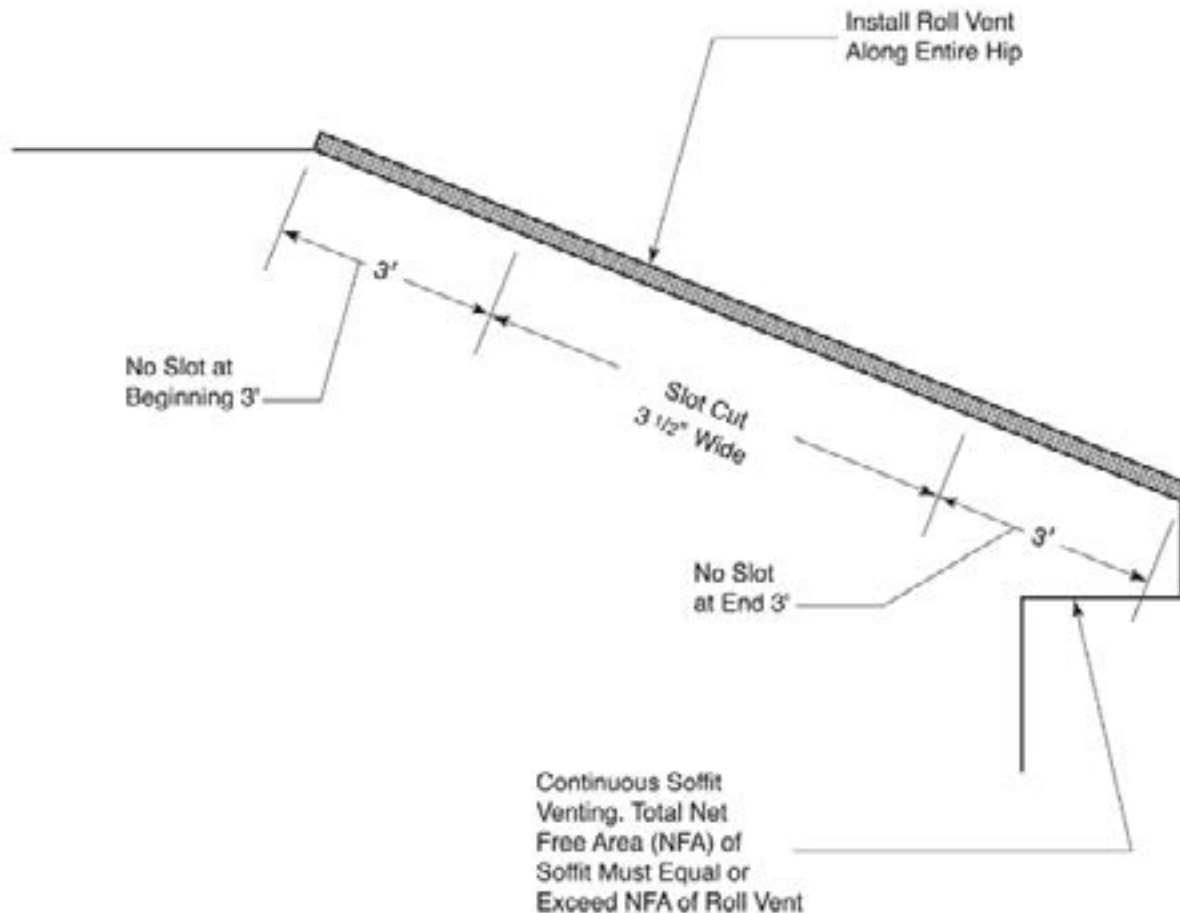
2. No end cap is necessary if cap shingles are lapped over end of product and down onto ridge. In this case, run vent to 12 inches from gable ends. Cap shingles

can be laid down over end of vent onto ridge and out of gable ends. Optionally, Roll Vent can be installed right to gable ends using an integral end cap. To create end cap, loosen about 6 inches of matrix from fabric and cut out with snips. Fold bottom fabric in toward center of product so that it covers the end of vent. Start and end vent installation 1 inch from gable ends.

3. Center vent over slot at one end with printed logo side "up" and fasten with two nails (note: minimum nail length is 2 1/2 inches). Roll out along entire ridge, pull out slack, and fasten with two nails at opposite end (creating end cap at other end if using that method). Center cap shingles over vent and install with 2 1/2 inch nails provided. Use nail line as placement guide. If using fabric end cap, hang shingles 1 inch over vent at gable ends. Nails must penetrate 3/4 inch into sheathing or completely through the sheathing.

4. To splice, remove about 3 inches of matrix from fabric and lay end of new roll inside remaining fabric to create fabric overlap.

Hip Roof Detail (Standard)



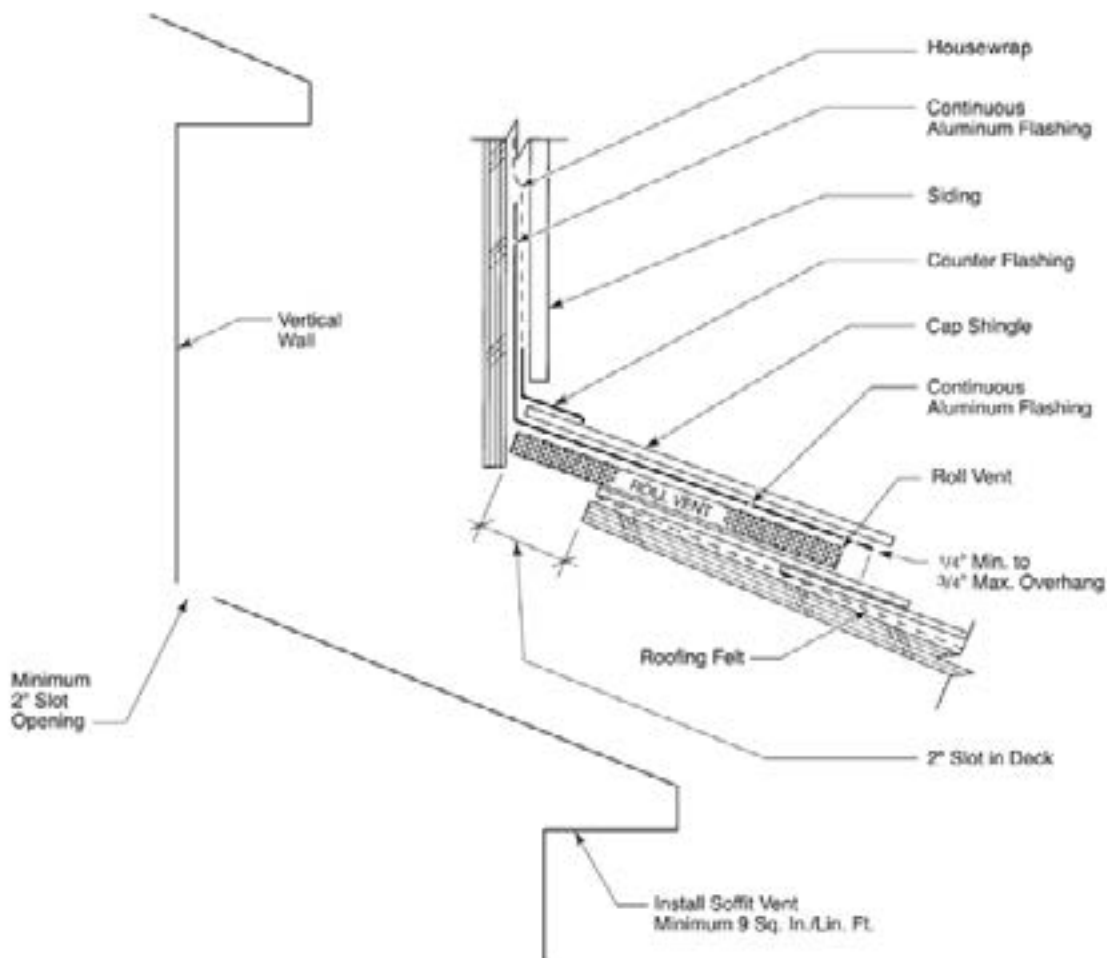
Note:

Hip Application not to exceed 12/12 pitch.

Cut slot in roof along hip 3 1/2 inches wide beginning 3' from peak and running to 3 feet of end of hip. Start Roll Vent a minimum of 1 inch from each end of the hip using end cap installation (pg 2). Center cap shingles over vent and use nail line as a placement guide. Install with 2 1/2 inch nails provided. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Cap shingles must overhang Roll Vent by 1 inch each hip end.

Run bead of sealant along bottom edge of Roll Vent where it meets shingles on roof deck. Hip application is for Roll Vent Standard (10 1/2 inches).

Shed Roof Detail (Standard)



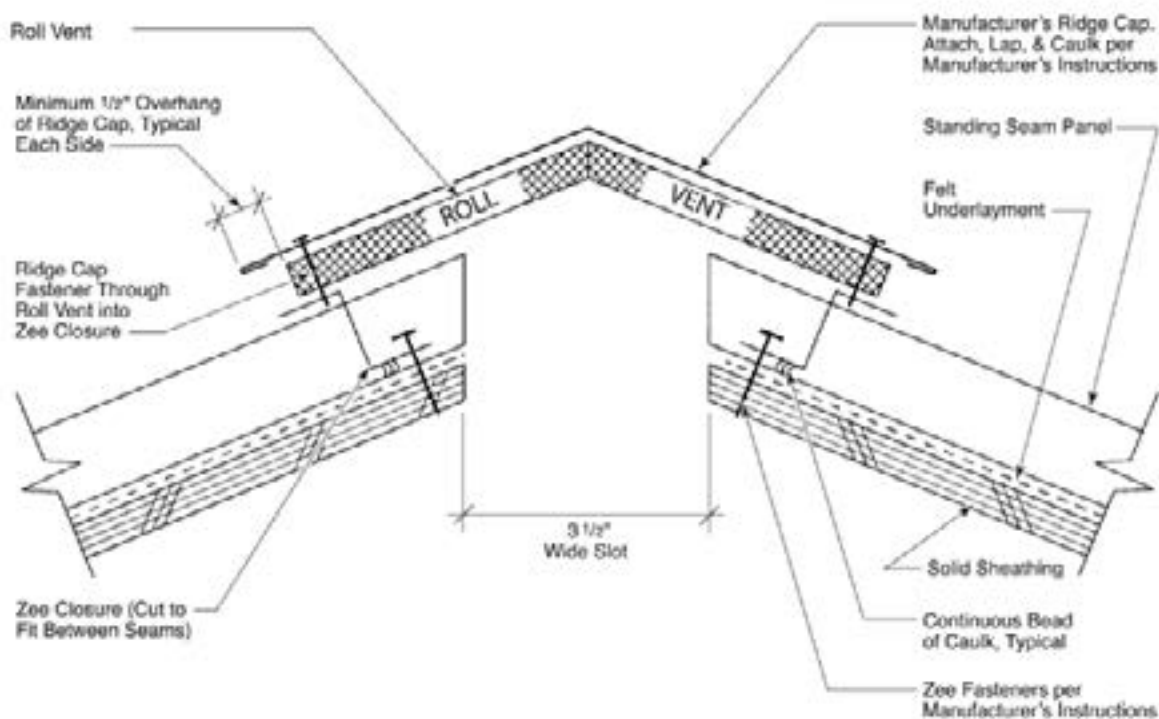
Note:

Roll Vent will only vent 9 sq. in. per linear foot in this application. The Venturi effect will be limited.

Start Roll Vent a minimum of 1 inch from each end of roof using the end cap installation (pg 5). Center cap shingles over vent and install with nails provided. Use nail line as placement guide. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Cap shingles must overhang Roll Vent by 1 inch minimum at each end of roof.

For added weather protection, install counter flashing behind siding and over top of cap shingle.

Standing Seam Detail (Standard)

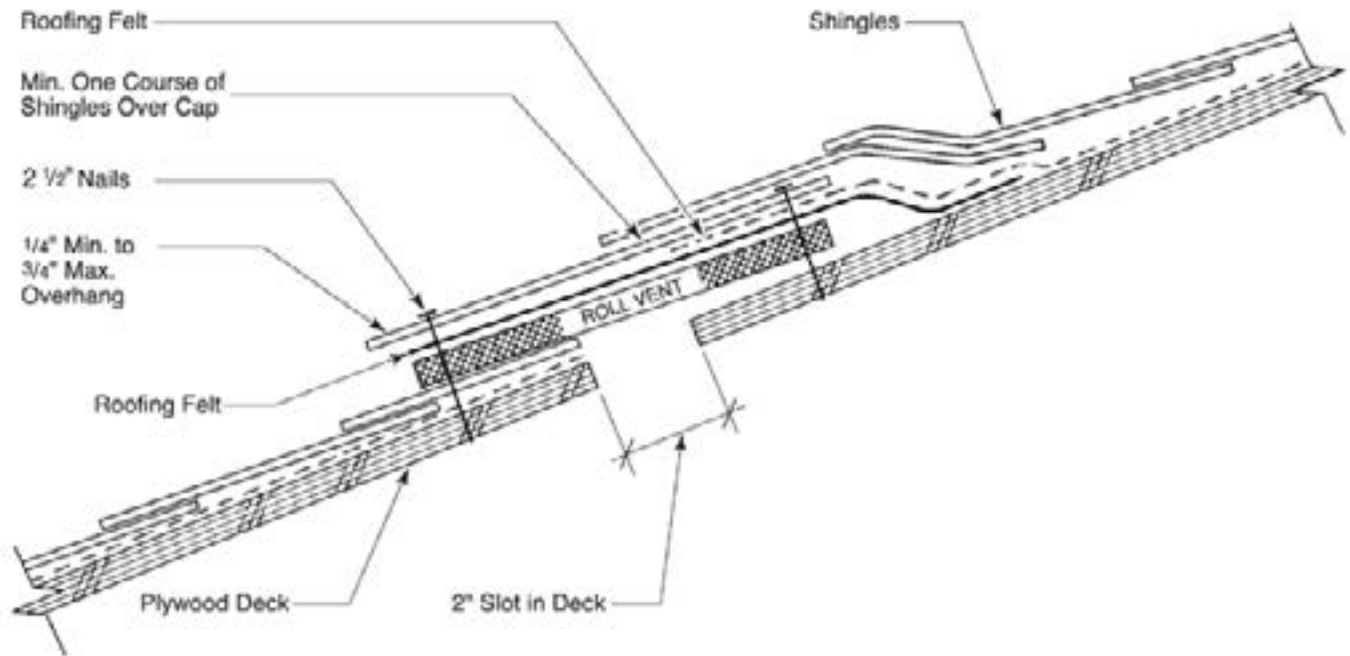


Note:

Install with continuous soffit ventilation at each eave equivalent to 7 sq. in. per linear foot.

Roll Vent available in Standard (10 1/2 inches) width. Choose width that will allow ridge cap to overhang Roll Vent by 1/2 inch minimum on each side.

Off Peak Detail (Standard)



Note:

Roll Vent will only vent 9 sq. in. per linear foot in this application and must be installed with a soffit vent with a minimum of 9 sq. in. per linear foot net free area. It is recommended that Roll Vent and soffit vent be installed on both sides of the peak.

1. Cut 2 inches wide slot in deck no more than 4 feet from ridge and no closer than 4 feet from eave. Allow for closed area of sheathing with no slot approximately 6 inches at both ends.
2. Install felt per manufacturer's instructions onto deck leaving slot exposed. Do not nail or staple through felt within 8 inches of slot opening on high side of slot.
3. Shingle per manufacturer's instructions up to slot.
4. Center Roll Vent over slot, tack down at end and roll out. Start Roll Vent a minimum of 1 inch from each end of roof using the end cap installation (pg 5).

5. Install minimum 14 inches wide felt on top of Roll Vent and lap felt from deck on top of this course of felt.

6. Install one-tab cap shingles over felt and Roll Vent with 2 1/2 inch nails provided. Nail approximately 2 1/2 inches in from cap shingle edge on nailing rib indicated by nailing line. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Cap shingles must overhang Roll Vent by 1 inch at each gable end. Cap shingles should overhang Roll Vent by 1/4 inch minimum to 3/4 inch maximum on each side. Cap shingles can be used as this course provided 2 1/2 inch nails are placed on each tab 1 inch from lower edge of Roll Vent and nail heads are sealed in caulk.

7. Install minimum one course of shingles lapped on top of cap. Install rest of shingles per manufacturer's instructions.

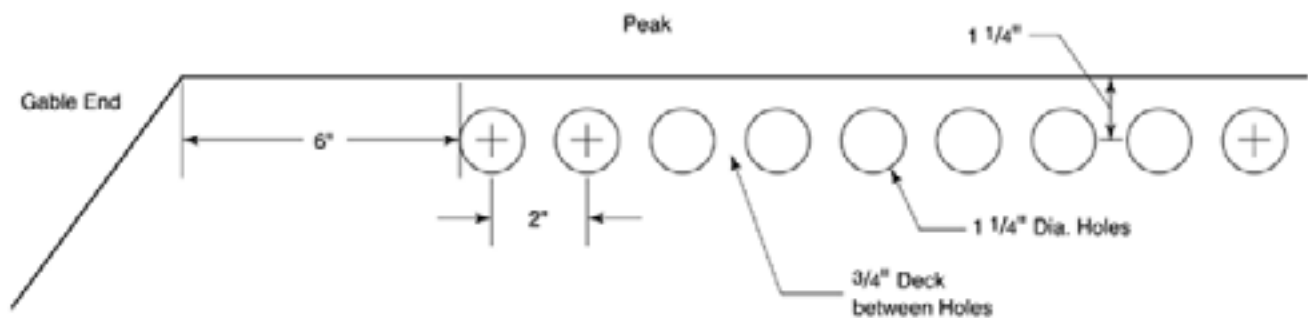
Cathedral Ceilings (**Standard**)

Cathedral or vaulted ceilings present some unique ventilating situations that need to be addressed up front to avoid condensation problems down the road. A cathedral ceiling is typically constructed utilizing 2 x 8 rafters on 16 inch or 24 inch centers; plywood roof decking on top of the rafters; and drywall, which

becomes the ceiling of the room below, on the bottom of the rafters. Since this rafter space becomes the only separation between living space and outside temperatures, many builders want to install as much insulation as possible in this space. This causes a problem by restricting the air flow capability from soffit (intake) to ridge (exhaust) within these rafter spaces. This usually shows up in the form of condensation. The following are tips to follow when designing or installing Roll Vent for use in cathedral/vaulted ceilings:

1. Be sure to properly “balance” the Roll Vent total net free area with soffit vent total net free area. Strip soffit vent with a net free area of at least 9 sq. in. per linear foot is necessary.
2. Install Roll Vent and soffit venting continuously along the ridge and eave overhang, respectively. Each rafter space must have air flow.
3. Install “vent chutes” between the rafters from the soffit to the ridge. This assures at least 1 1/2 inches of unobstructed air space between the bottom of the deck and top of the insulation.
4. Install a vapor barrier on the “warm” side of the insulation to provide a block against living area moisture migrating into the rafter spaces. Following the above procedures will minimize the potential for condensation-related problems in cathedral or vaulted ceilings.

No-Slot Vent Detail (Standard)



In certain areas of the United States, building codes do not allow for a continuous slot to be cut into the roof structure. This is especially true on the west coast and other earthquake prone areas. Roll Vent can be installed on a roof without a continuous slot.

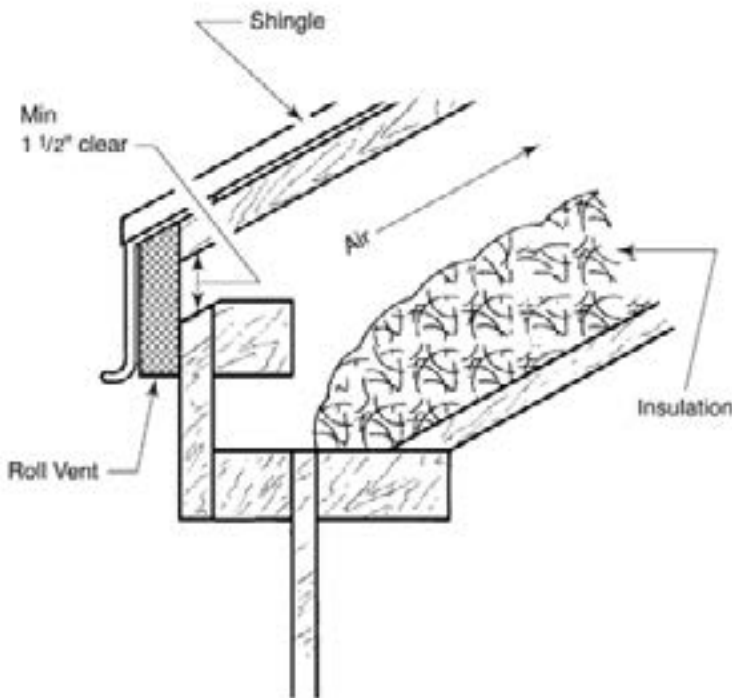
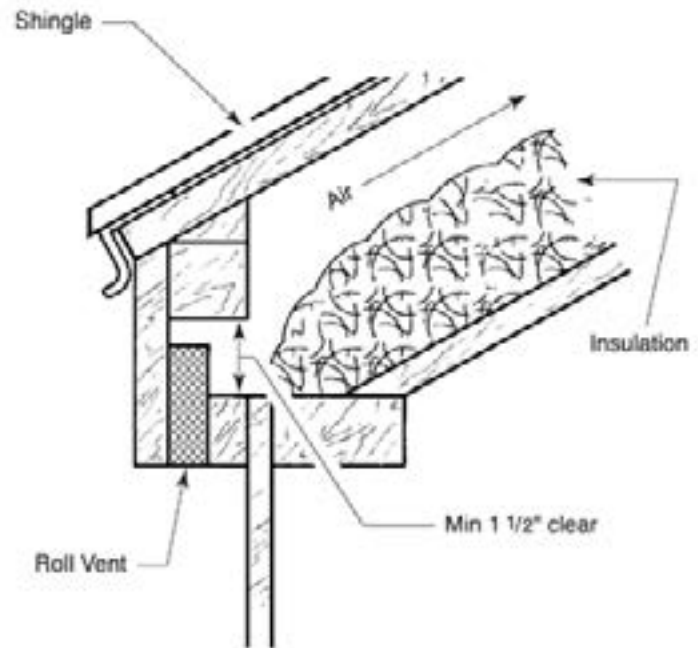
Drill 1 1/4 inch holes every 2 inches on center (this will leave 3/4 inch of deck between each hole) and 1 1/4 inches on center from the peak of the roof. From each gable end, leave 6 inches with no holes cut.

This installation will work with/without the presence of a 2X ridge beam. Roll Vent will vent 6.1 sq. in. per linear foot in this application.

Fascia Vent & Drip Edge Vent Detail (Standard)

FASCIA VENT APPLICATION

1. Trim Roll Vent with utility knife to appropriate width to fit behind fascia board.
2. Install flush with bottom of fascia. Position fabric side outwards toward open air to prevent insect infiltration.
3. Roll Vent will provide 9 sq. in. of net free area per linear foot in this application.



DRIP EDGE VENT APPLICATION

1. Trim Roll Vent with utility knife to appropriate width to fit under drip edge.
2. Install flush with bottom of drip edge. Position fabric side outwards toward open air to prevent insect infiltration.
3. Roll Vent will provide 9 sq. in. of net free area per linear foot in this application.

Note: Roll Vent is available in Standard (10 1/2 inches) width. Please specify application requirements when ordering.

SHARK VENT®

XLP



Installation Considerations

DO NOT use multiple vent systems such as:

- Powered Fans
- Roof Pots
- Turbines
- Gable Vents

If continuous soffit or fascia vents and ridge vents are used, other vent systems should be removed or disconnected and gable vents should be closed. The use of mixed ventilation systems, such as soffit and ridge vents in combination with a power fan could result in reverse airflow that could result in water leakage into the attic.

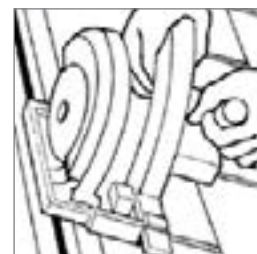
Shark Vent XLP General Installation

Requirements:

- Compressor pressure should be set between 90–100 psi
- Must be used with an equal or greater amount of soffit vent
- Installs on pitches from 3/12 to 16/12 (see page 3 for pitches greater than 12/12)
- Use with standard 12 inch wide cap shingles
- Use 1 3/4 inch nails provided to assure penetration into the sheathing 3/4 inch or completely through the sheathing
- If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent so that vent is essentially installed on top of felt over the shingles. If re-roofing, caulk between low areas of shingle and baffle of vent after installation.

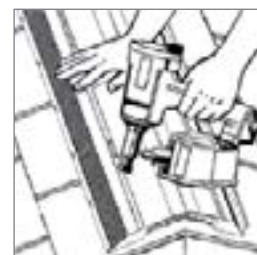
Step 1:

Cut a slot in plywood along roof ridge 1 1/2 inches wide (3/4 inch on each side, see detail on page 4). If ridge beam is present, cut slot 3/4 inch wide on each side of ridge beam (see detail on page 5). Allow for a closed area of sheathing 12 inches at both ends of ridge.



Step 2:

Place beginning end of vent 1 inch in from gable end and use centering line for proper alignment along peak. Fasten using at least two nails at each end in vent nail guide area (1 3/4 inch minimum nail length), then continue to nail approximately every 12 inches. More nails may be required on steeper slopes to seat properly. Continue installing additional rolls as needed along ridge end to end, aligning using centering line. When reaching the other end, cut vent roll to 1 inch from the gable end and nail in place. End plugs are provided every 12 inches on the underside of the product.



Step 3:

Place first cap shingle over vent so that it overhangs at least 1 inch over end of vent roll. Install with 1 3/4 inch nails provided in shingle nail line area as you work your way along the roof ridge. Cut last cap shingle so that it overhangs vent 1 inch at other gable end.



Steep Pitch Guidelines (**Shark Vent XLP**)

As a roof’s pitch becomes steeper, the effective opening of the slot becomes smaller. To provide effective ventilation, the sheathing cut must be wider than normal.

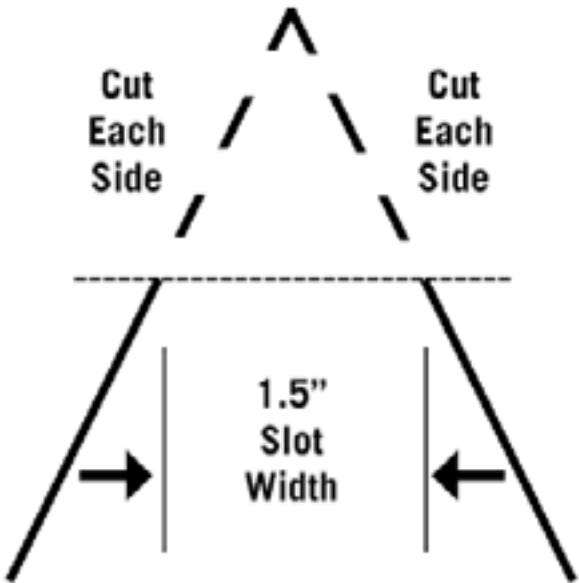
CAUTION: on steep pitch roof conditions verify proper clearance from edge of sheathing prior to nailing.

The following chart gives the necessary measurements for steeper than 12/12 pitches:

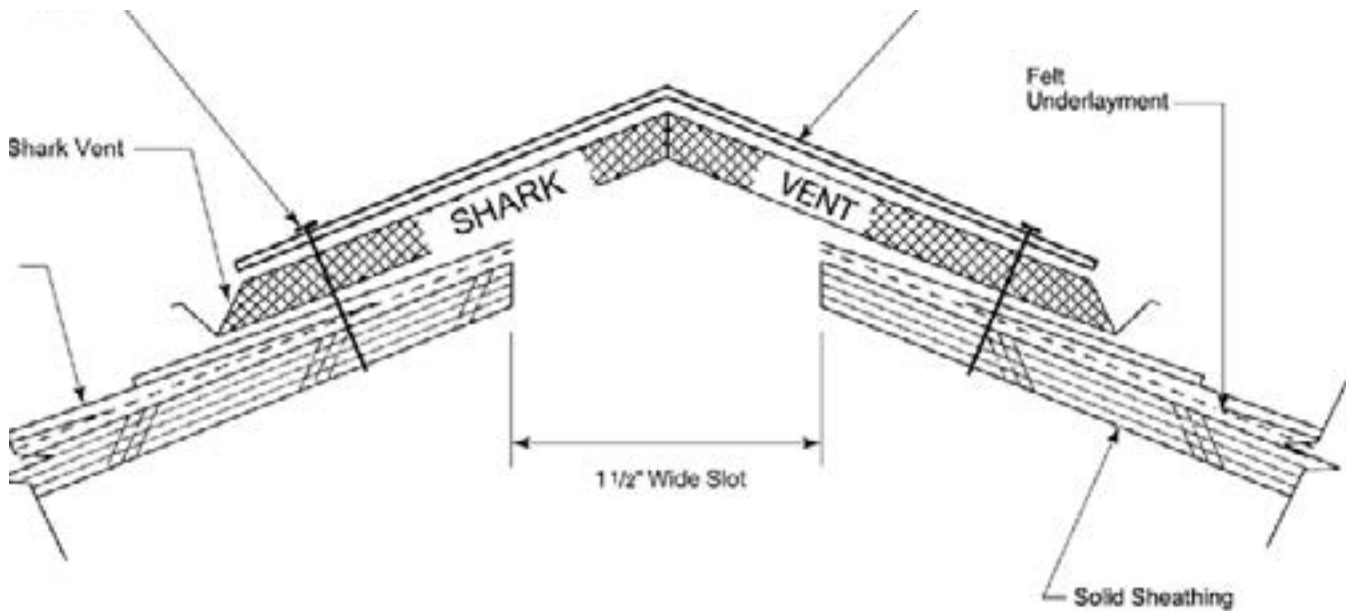
PITCH	EACH SIDE
13/12	1 1/8 in *(2 1/4 in total)
14/12	1 3/16 in *(2 3/8 in total)
15/12	1 1/4 in *(2 1/2 in total)
16/12	1 1/4 in *(2 1/2 in total)

Under no circumstances should Shark Vent Ridge Vent be installed on pitches greater than 16/12. This steep pitch application is for ridge installations only.

The presence of a ridge beam may slightly reduce ventilation.



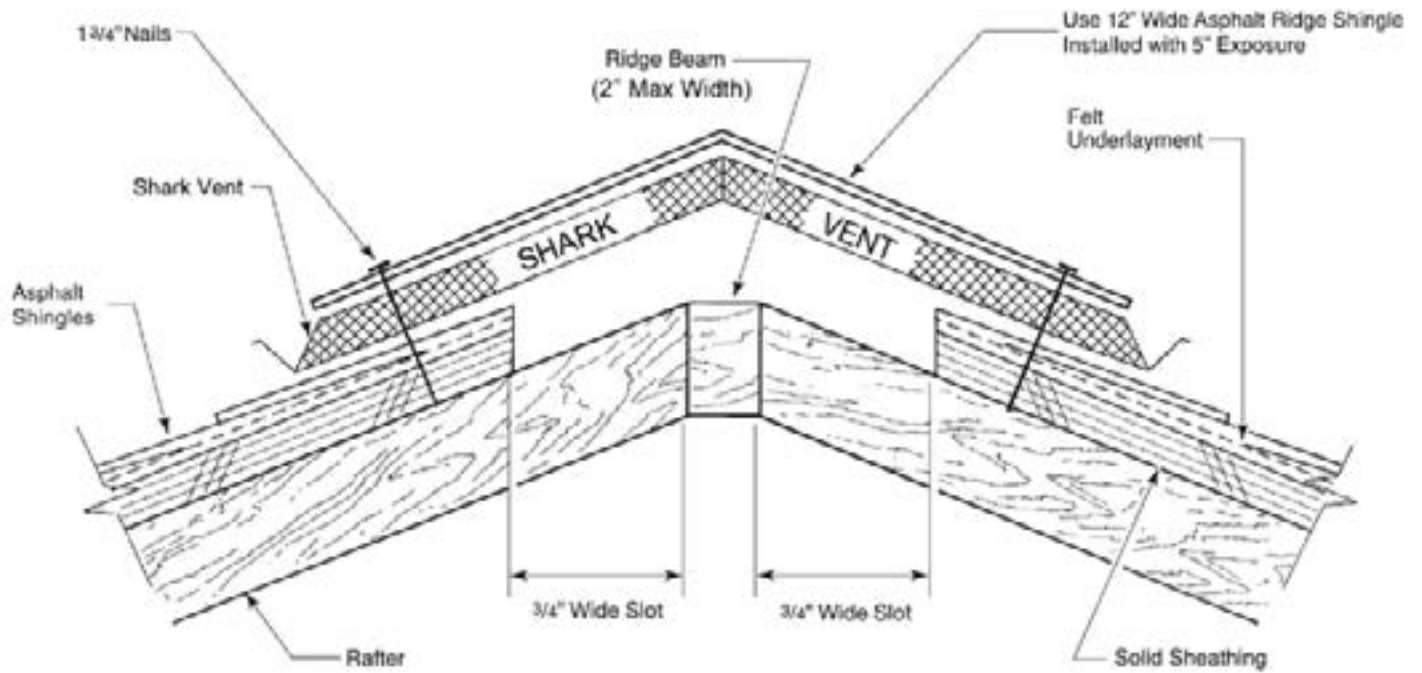
Asphalt Shingles Detail (**Shark Vent XLP**)



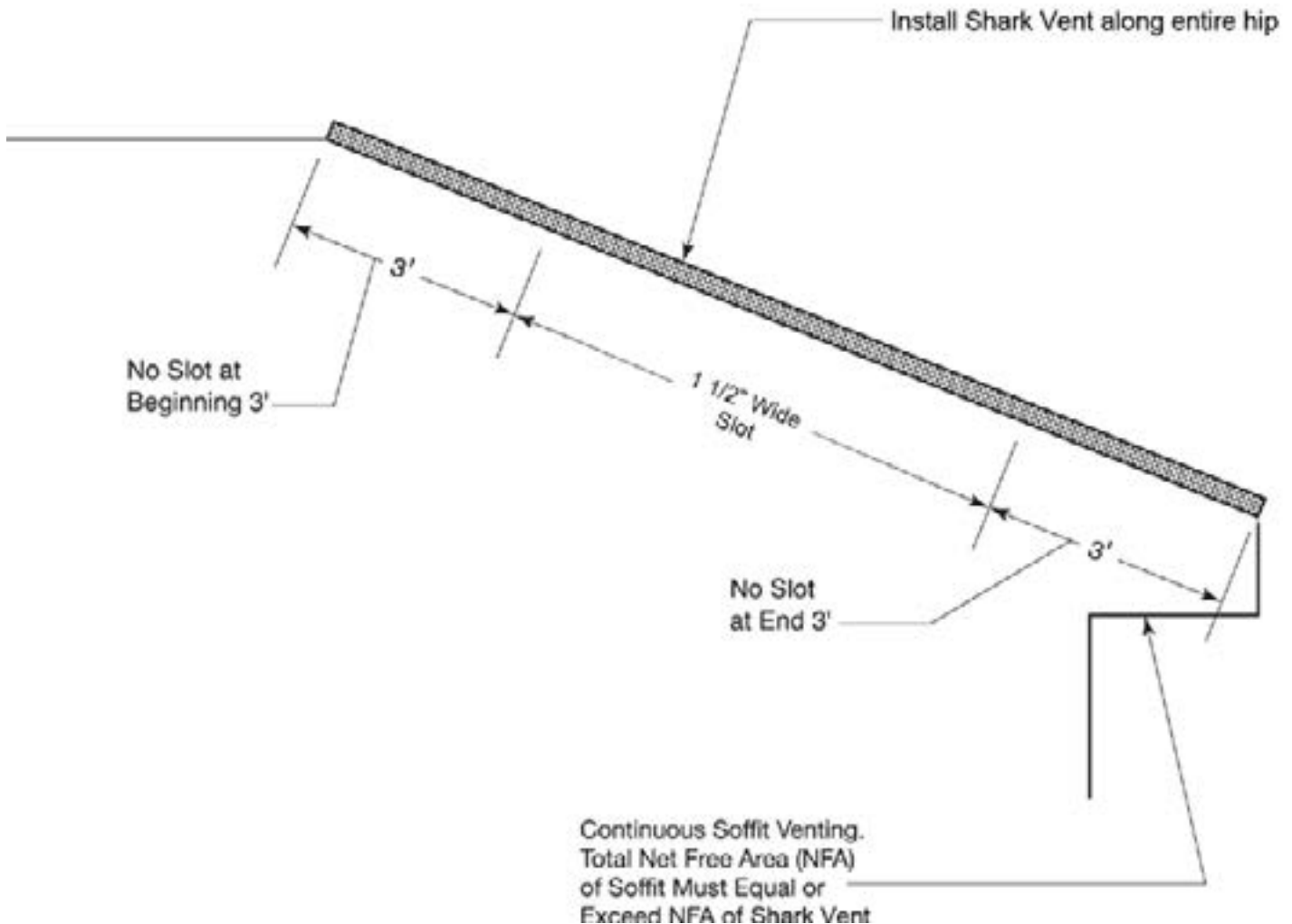
Installation Note:

Use instructions on page 2 for asphalt shingle installation.

Ridge Beam Detail (Shark Vent XLP)



Hip Roof Detail (Shark Vent XLP)



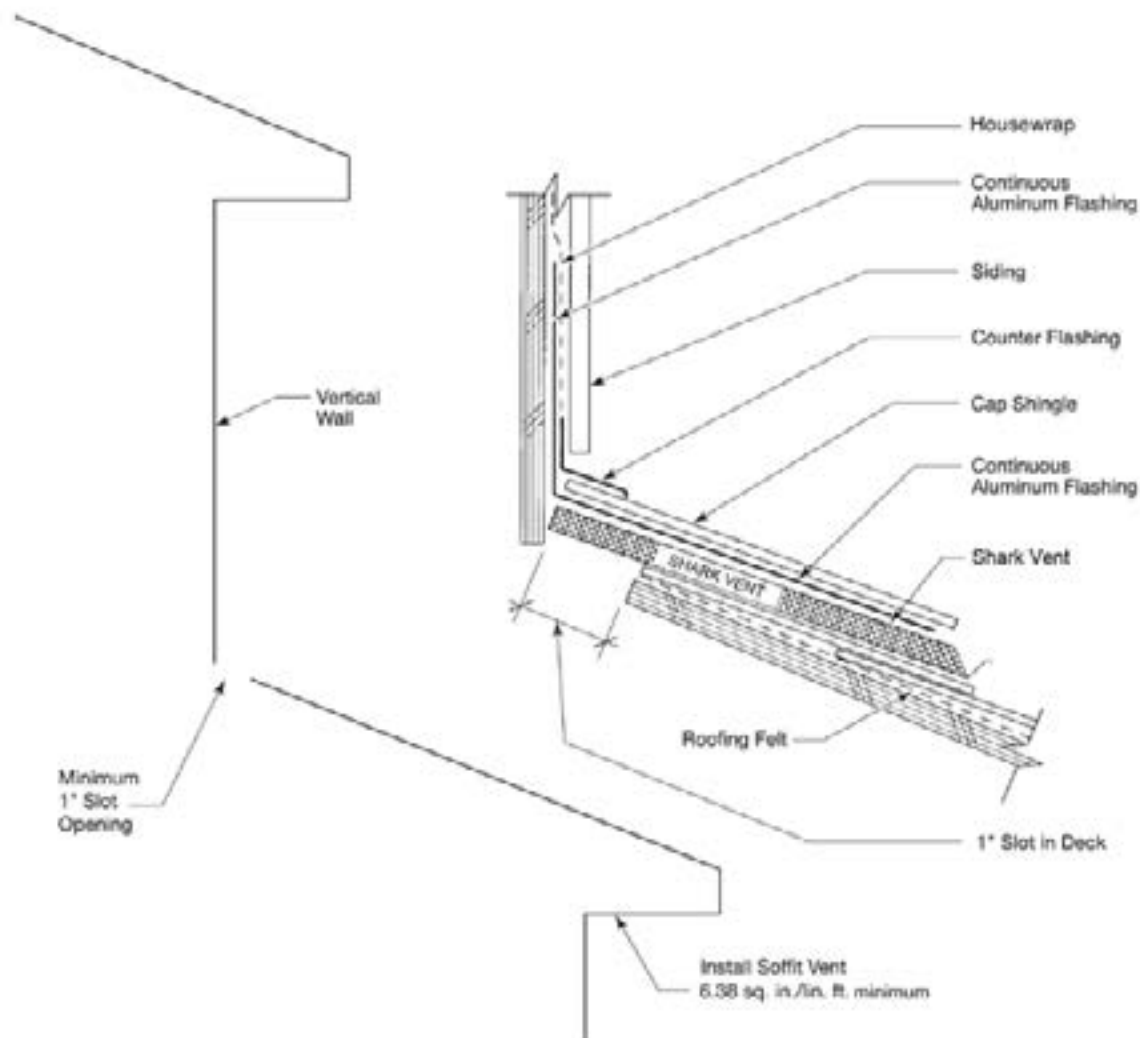
Installation Notes:

Hip Application not to exceed 12/12 pitch.

Cut slot in roof along hip 1 1/2 inch wide beginning 3 feet from peak and running to 3 feet of end of hip. Start Shark Vent a minimum of 1 inch from each end of the hip. Center cap shingles over vent and use nail line as a placement guide. Install with 1 3/4 inch nails. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Cap shingles must overhang Shark Vent by 1 inch each hip end.

Run bead of sealant along bottom edge of Shark Vent where it meets shingles on roof deck.

Shed Roof Detail (Shark Vent XLP)



Installation Notes:

Shark Vent will only vent 6.38 sq. in. per linear foot in this application. The Venturi effect will be limited.

Cut Shark Vent baffle area off and install flat side against the vertical wall. Start Shark Vent a minimum of 1 inch from each end of roof. Center cap shingles over vent and install with nails. Use nail line as placement guide. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing.

Cap shingles must overhang Shark Vent by 1 inch minimum at each end of roof.

For added weather protection, install counter flashing behind siding and over top of cap shingle.

Cathedral Ceilings (**Shark Vent XLP**)

Cathedral or vaulted ceilings present some unique ventilating situations that need to be addressed up front to avoid condensation problems down the road. A cathedral ceiling is typically constructed utilizing 2 x 8 rafters on 16 inch or 24 inch centers; plywood roof decking on top of the rafters; and drywall, which becomes the ceiling of the room below, on the bottom of the rafters. Since this rafter space becomes the only separation between living space and outside temperatures, many builders want to install as much insulation as possible in this space. This causes a problem by restricting the air flow capability from soffit (intake) to ridge (exhaust) within these rafter spaces. This usually shows up in the form of condensation. The following are tips to follow when designing or installing Shark Vent for use in cathedral/vaulted ceilings:

1. Be sure to properly “balance” the Shark Vent total net free area with soffit vent total net free area. Strip soffit vent with a net free area of at least 6.38 sq. in. per linear foot is necessary.
2. Install Shark Vent and soffit venting continuously along the ridge and eave overhang, respectively. Each rafter space must have air flow.
3. Install “vent chutes” between the rafters from the soffit to the ridge. This assures at least 1 1/2 inches of unobstructed air space between the bottom of the deck and top of the insulation.
4. Install a vapor barrier on the “warm” side of the insulation to provide a block against living area moisture migrating into the rafter spaces. Following the above procedures will minimize the potential for condensation-related problems in cathedral or vaulted ceilings.

Installation Instructions

XTRACTOR VENT®

X18 / X18 XTRA / XLP



XTRACTOR VENT®

**EXTERNALLY BAFFLED
RIDGE VENT**

Installation Considerations

DO NOT use multiple vent systems such as:

- Powered Fans
- Roof Pots
- Turbines
- Gable Vents

If continuous soffit or fascia vents and ridge vents are used, other vent systems should be removed or disconnected and gable vents should be closed. The use of mixed ventilation systems, such as soffit and ridge vents in combination with a power fan could result in reverse airflow that could result in water leakage into the attic.

X18 and X18 Xtra General Installation

Requirements:

- Install on pitches 3/12 to 16/12. See page 4 for pitches greater than 12/12.
- Must be used with an equal or greater amount of soffit vent.
- 2 inch slot required at ridge.
- Must be installed with minimum nail size of 2-1/2 inches.
- If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent. The vent should be installed on top of the felt over the shingles. If re-roofing, caulk between low areas of shingle and underside of ridge vent.

Step 1:

Cut a slot in plywood along roof ridge 2 inches wide (1 inch on each side, see detail on page 5). If ridge beam is present, cut slot 1 inch wide on each side of ridge beam (see detail on page 6). Allow for a closed area of sheathing 12 inches at both ends of ridge.

Step 2:

Place first piece of vent with female end 1 inch in from gable end and use centering line for proper alignment along peak. Fasten using at least two nails at each end and in middle of section in nail line area using pre drilled nail holes (2 1/2 inch minimum nail length). More may be required on steeper slopes to seat properly. Continue installing additional pieces along ridge sliding female end over male end, aligning using centering line.

NOTE: In cold weather, allow a 1/8 inch gap between vent sections for expansion.

Step 3:

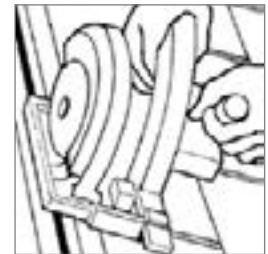
When reaching the other end, the last vent section may need to be cut to length. End plugs are provided every 12 inches on underside of the product. Measure amount needed to install to within 1 inch of gable end. Cut that length in from end of vent section and flip around so that end plug is at gable end. Allow male tab from previous piece to slide under last piece and nail in place.

Step 4:

Place first cap shingle over vent so that it overhangs at least 1 inch over end of vent section. Install with 2 1/2 inch nails in nail line area as you work your way down the roof. Cut last cap shingle so that it overhangs vent 1 inch at other gable end.

Helpful hints:

- Optionally, you may install cap shingles on each piece as you go along, taking care to assure proper placement.
- Lines across top of product indicate where the end plugs are on the underside (every 12 inches). There is no need to flip the last piece if you measure and plan ahead to install on an even foot increment.
- The nail line area is completely free from obstructions except where the end plugs are. By using the end plug indicators on top of product, you can easily avoid nails through the end plugs.



XLP General Installation

Requirements:

- Install on pitches 3/12 to 16/12. See page 4 for pitches greater than 12/12.
- Must be used with an equal or greater amount of soffit vent.
- 1-1/2 inch slot required at ridge.
- Can be installed with a nail gun. Compressor pressure should be between 90 and 100 psi.
- Must be installed with minimum nail size of 1-3/4 inches.
- If installing on dimensional or architectural shingles on new construction, leave felt underlayment about 6 inches long at roof ridge and fold back under the vent. The vent should be installed on top of the felt over the shingles. If re-roofing, caulk between low areas of shingle and underside of ridge vent.

Step 1:

Cut a slot in plywood along roof ridge 1 1/2 inches wide (3/4 inch on each side, see detail on page 5). If ridge beam is present, cut slot 3/4 inch wide on each side of ridge beam (see detail on page 6). Allow for a closed area of sheathing 12 inches at both ends of ridge.

Step 2:

Place first piece of vent with female end 1 inch in from gable end and use centering line for proper alignment along peak. Fasten using at least two nails at each end and in middle of section in nail line area (1 3/4 inch minimum nail length). More may be required on steeper slopes to seat properly. Continue installing additional pieces along ridge sliding female end over male end, aligning using centering line.

NOTE: In cold weather, allow a 1/8 inch gap between vent sections for expansion.

Step 3:

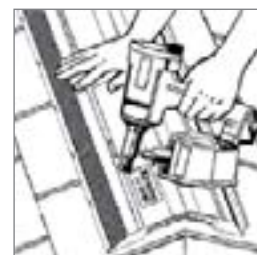
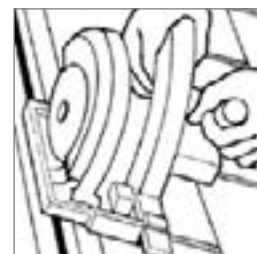
When reaching the other end, the last vent section may need to be cut to length. End plugs are provided every 12 inches on underside of the product. Measure amount needed to install to within 1 inch of gable end. Cut that length in from end of vent section and flip around so that end plug is at gable end. Allow male tab from previous piece to slide under last piece and nail in place.

Step 4:

Place first cap shingle over vent so that it overhangs at least 1 inch over end of vent section. Install with 2 1/2 inch nails in nail line area as you work your way down the roof. Cut last cap shingle so that it overhangs vent 1 inch at other gable end.

Helpful hints:

- Optionally, you may install cap shingles on each piece as you go along, taking care to assure proper placement.
- Lines across top of product indicate where the end plugs are on the underside (every 12 inches). There is no need to flip the last piece if you measure and plan ahead to install on an even foot increment.
- The nail line area is completely free from obstructions except where the end plugs are. By using the end plug indicators on top of product, you can easily avoid nails through the end plugs.



Steep Pitch Guidelines (X18, X18 Xtra, XLP)

As a roof's pitch becomes steeper, the effective opening of the slot becomes smaller. To provide effective ventilation, the sheathing cut must be wider than normal.

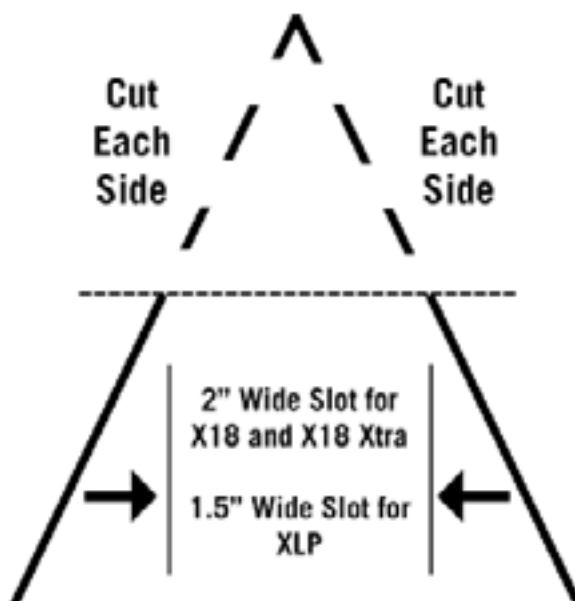
CAUTION: on steep pitch roof conditions verify proper clearance from edge of sheathing prior to nailing.

The following chart gives the necessary measurements for steeper than 12/12 pitches:

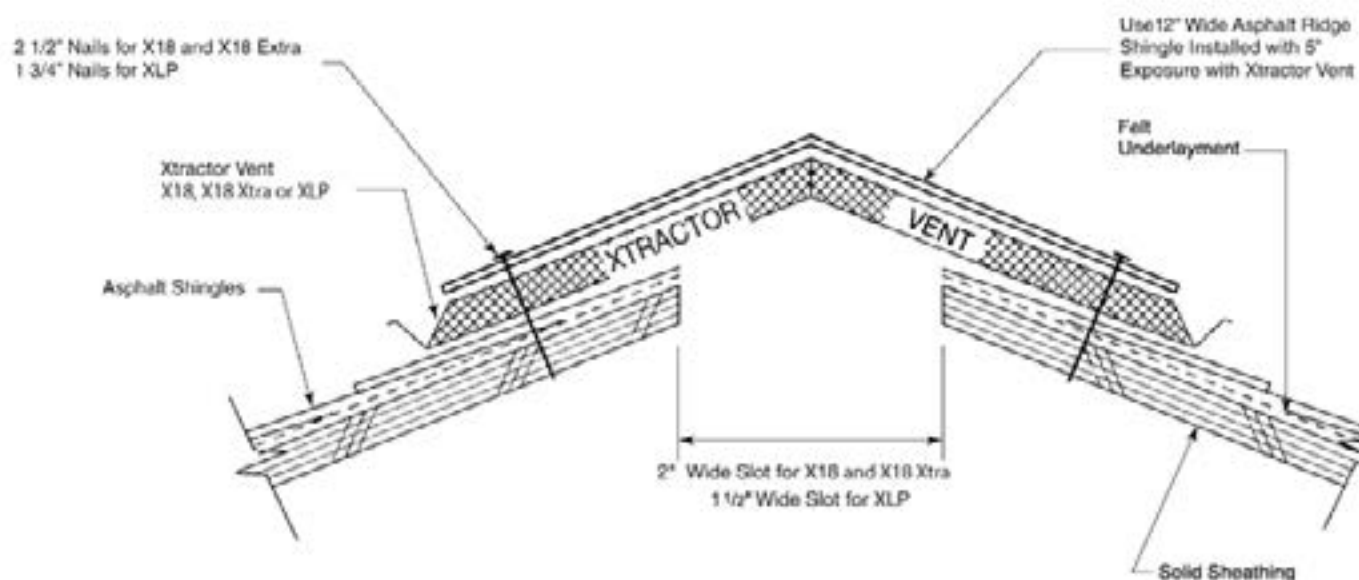
PITCH	EACH SIDE (X18, X18 Xtra)	EACH SIDE (XLP)
13/12	1 7/16 in *(2 7/8 in total)	1 1/8 in *(2 1/4 in total)
14/12	1 1/2 in *(3 in total)	1 3/16 in *(2 3/8 in total)
15/12	1 5/8 in *(3 1/4 in total)	1 1/4 in *(2 1/2 in total)
16/12	1 11/16 in *(3 3/8 in total)	1 1/4 in *(2 1/2 in total)

Under no circumstances should Xtractor Vent Ridge Vent be installed on pitches greater than 16/12. This steep pitch application is for ridge installations only.

The presence of a ridge beam may slightly reduce ventilation.



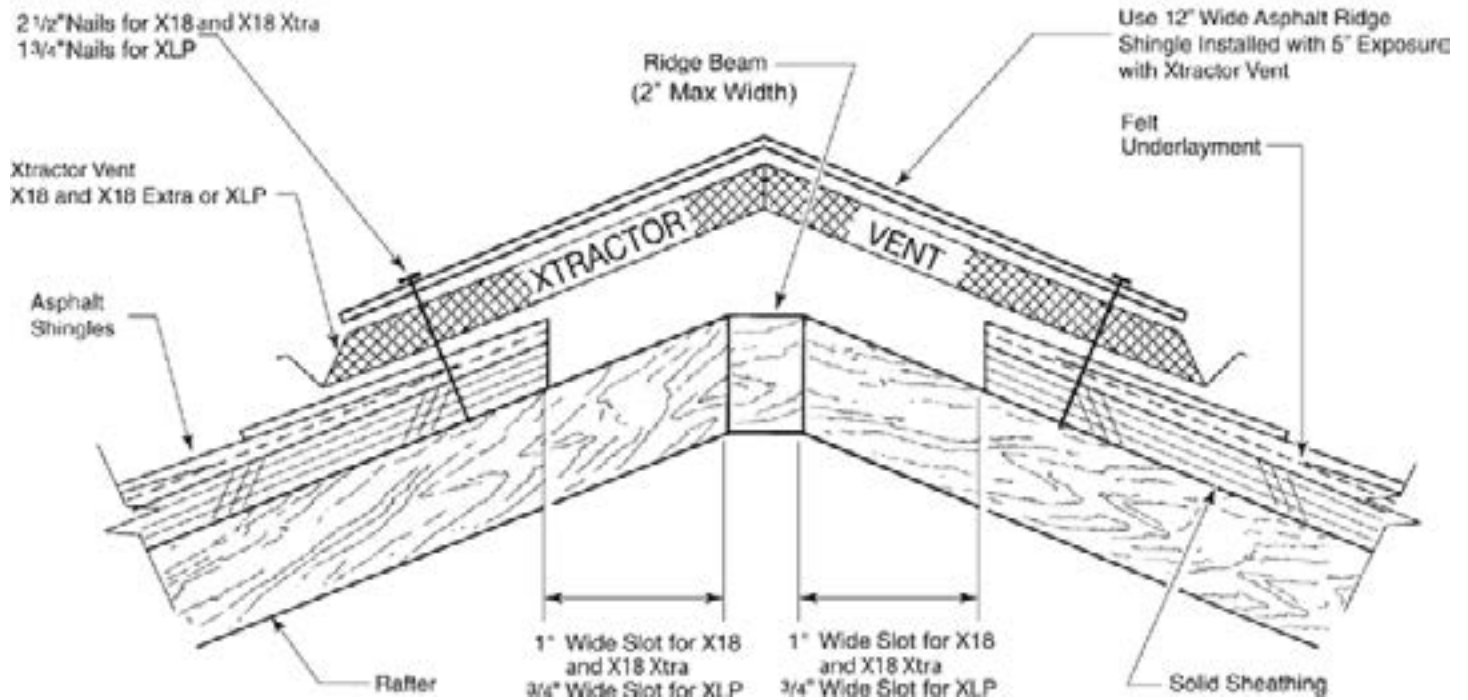
Asphalt Shingles Detail (X18, X18 Xtra, XLP)



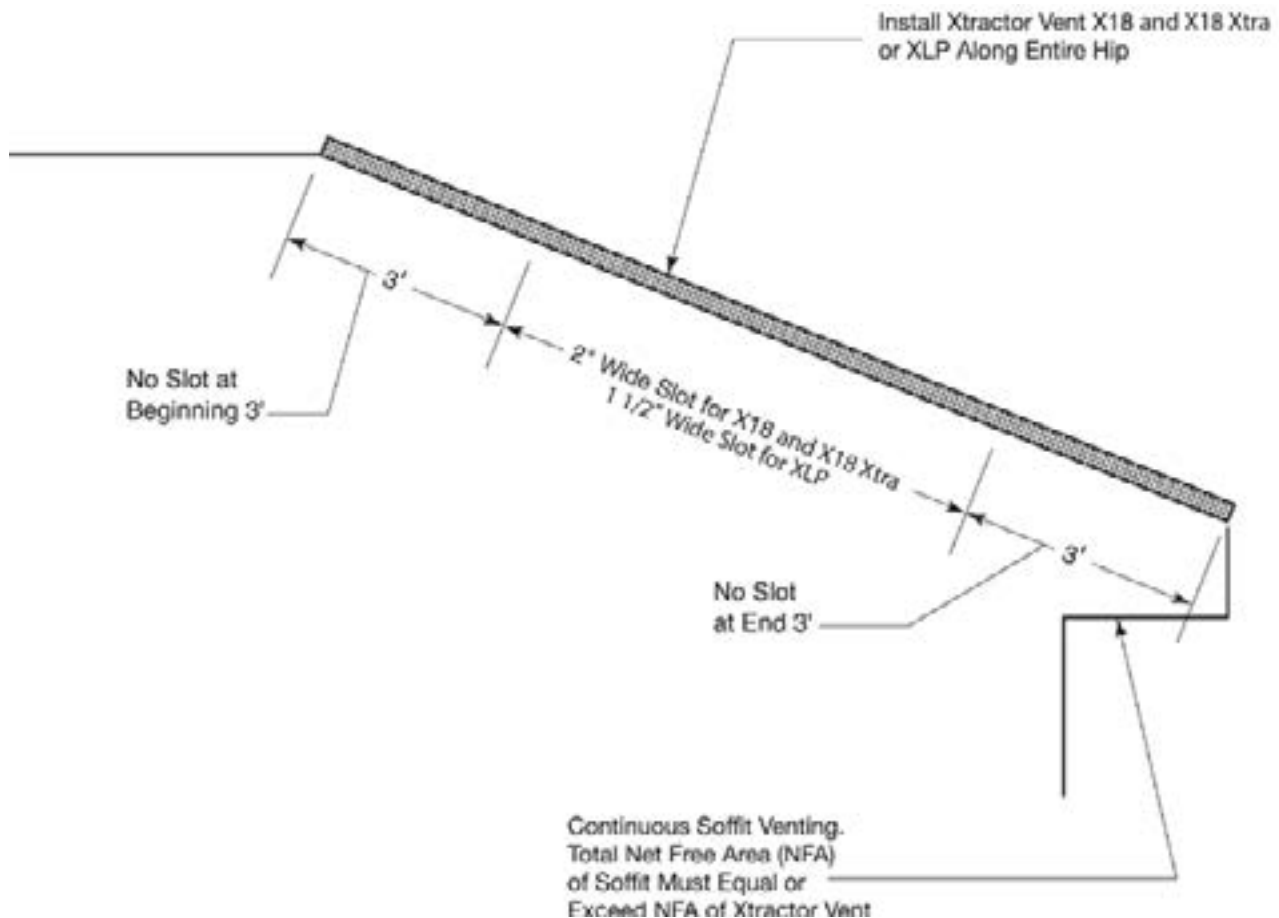
Installation Note:

Use instructions on page 2 (X18 and X18 Xtra) and page 3 (XLP) for asphalt shingle installation.

Ridge Beam Detail (X18, X18 Xtra, XLP)



Hip Roof Detail (X18, X18 Xtra, XLP)



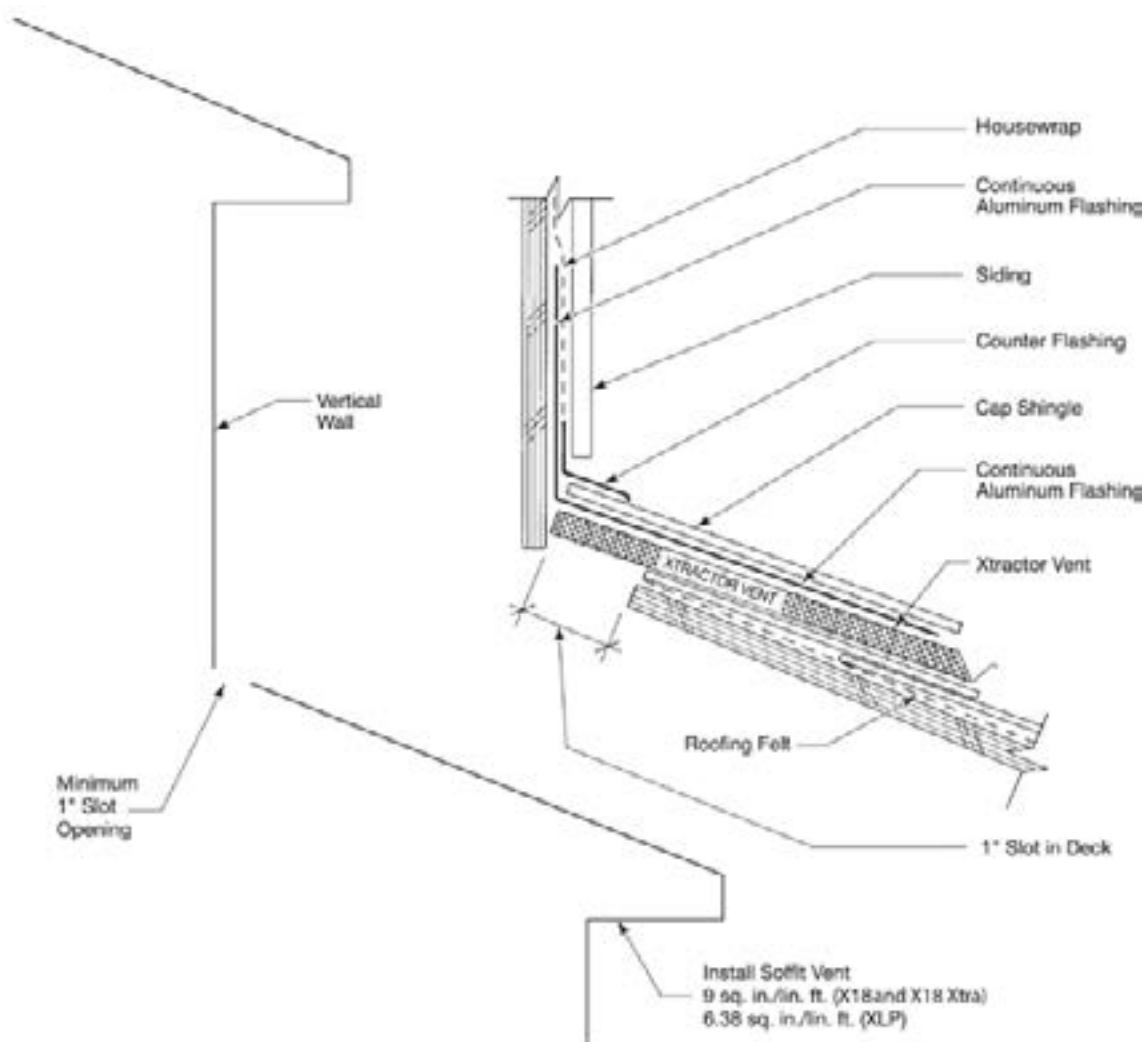
Installation Notes:

Hip Application not to exceed 12/12 pitch.

Cut slot in roof along hip, 2 inches wide for X18 and X18 Xtra or 1 1/2 inches wide for XLP beginning 3 feet from peak and running to 3 feet of end of hip. Start Xtractor Vent a minimum of 1 inch from each end of the hip. Center cap shingles over vent and use nail line as a placement guide. Install with 2 1/2 inch nails for X18 and X18 Xtra or 1 3/4 inch nails for XLP. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing. Cap shingles must overhang Xtractor Vent by 1 inch each hip end.

Run bead of sealant along bottom edge of Xtractor Vent where it meets shingles on roof deck.

Shed Roof Detail (X18, X18 Xtra, XLP)



Installation Notes:

Xtractor Vent will only vent 9 sq. in. per linear foot (X18 and X18 Xtra) or 6.38 sq. in. per linear foot (XLP) in this application. The Venturi effect will be limited.

Cut Xtractor Vent baffle area off and install flat side against the vertical wall. Start Xtractor Vent a minimum of 1 inch from each end of roof. Center cap shingles over vent and install with nails. Use nail line as placement guide. Nails must penetrate into the sheathing 3/4 inch or completely through the sheathing.

Cap shingles must overhang Xtractor Vent by 1 inch minimum at each end of roof.

For added weather protection, install counter flashing behind siding and over top of cap shingle.

Cathedral Ceilings (X18, X18 Xtra, XLP)

Cathedral or vaulted ceilings present some unique ventilating situations that need to be addressed up front to avoid condensation problems down the road. A cathedral ceiling is typically constructed utilizing 2 x 8 rafters on 16 inch or 24 inch centers; plywood roof decking on top of the rafters; and drywall, which becomes the ceiling of the room below, on the bottom of the rafters. Since this rafter space becomes the only separation between living space and outside temperatures, many builders want to install as much insulation as possible in this space. This causes a problem by restricting the air flow capability from soffit (intake) to ridge (exhaust) within these rafter spaces. This usually shows up in the form of condensation. The following are tips to follow when designing or installing Xtractor Vent for use in cathedral/vaulted ceilings:

1. Be sure to properly “balance” the Xtractor Vent total net free area with soffit vent total net free area. Strip soffit vent with a net free area of at least 9 sq. in. per linear foot (X18 and X18 Xtra) or 6.38 sq. in. per linear foot (XLP) is necessary.
2. Install Xtractor Vent and soffit venting continuously along the ridge and eave overhang, respectively. Each rafter space must have air flow.
3. Install “vent chutes” between the rafters from the soffit to the ridge. This assures at least 1 1/2 inches of unobstructed air space between the bottom of the deck and top of the insulation.
4. Install a vapor barrier on the “warm” side of the insulation to provide a block against living area moisture migrating into the rafter spaces. Following the above procedures will minimize the potential for condensation-related problems in cathedral or vaulted ceilings.