



The Perfect Panel Installation Guide

Updated June 2018

Thank you for choosing RoofKO for your roofing needs. This instruction manual is intended as a guide to install The Perfect Panel. The information given has been developed using generally accepted and proven methods that are to be utilized by professionally trained installers. The information given may not include all types of roofing scenarios, and you may contact RoofKO to receive further instructions for different situations. As always, please follow your local, state and national building codes.

Storage

The Perfect Panel should be stored in a dry and ventilated place until it can be installed. If it must be stored outside, the panels should be covered and away from moisture.

Roof Pitch

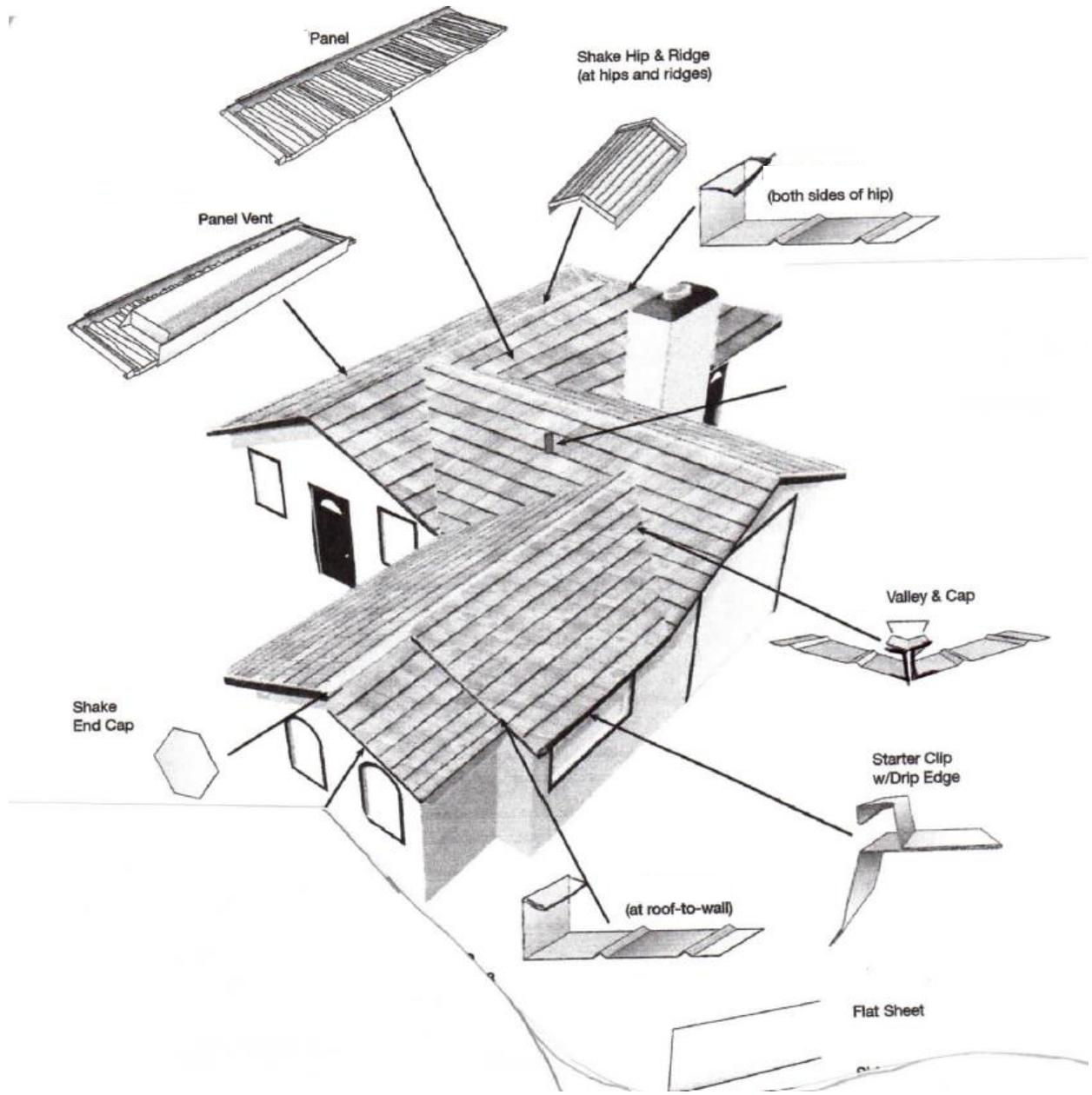
RoofKO has developed The Perfect Panel to be installed on roof pitches of at least a 3:12 in warm climates, and a 4:12 in all other climates. The Perfect Panel may be installed on a 2:12 as an overlay for decorative purposes. The underlying roof system must comply with building codes. Do not install this product on a roof that is below a 2:12 pitch.

Safety

Please follow safe OSHA roofing guidelines. Always use safety equipment and wear appropriate clothes. When walking on installed panels, walk on the front edge. A rubber or soft soled shoe is recommended to give you better grip and to avoid damaging the stone coating.

Warranty

The Perfect Panel has a warranty against winds up to 130 mph and/or 210 kmh. There is no warranty relating to the installation of the product as RoofKO has no control over the actual installation practices. Additionally there will be no warranty if accessory components should have been used but were left out of the initial installation.



Tools Needed

Skill Saw



Cordless Impact Drive



Tin Snips



Hammer



Roof Deck Preparation

Installation is easiest when the deck is square and level. Make adjustments to the deck so that the panels can be installed for a proper fit.

Underlayment

Install a single layer of underlayment that complies with the local building codes. ASTM D 226 Type II 30# felt is the minimum underlayment. Use an ice and water shield where it is required by the local building codes. In some instances, underlayment may not be needed before the installation. An example would be if the local code allows it and the existing roof is in a good enough condition to be used as The Perfect Panel's underlayment.

New Construction

The roof deck should be built to current building codes, and be clean and clear of any debris.

Re-Roof Over Asphalt Shingles, or Tear-Off

The Perfect Panel can be installed over existing asphalt shingles. It is not recommended to re-roof over two layers of asphalt shingles. Cut back the existing asphalt shingles on the eaves, gables and valleys enough to install the new RoofKO Channel. Remove all existing drip edge, hip and ridge cap.

When tearing off the existing roofing, make sure the roof deck conditions meet local code. Clean off roof deck and clear any debris away.

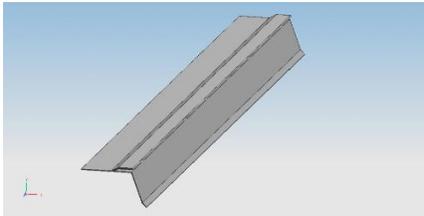
Fasteners

Each panel has five pre-drilled holes for the use of screws. Nails are not recommended for installation on the panel. Use corrosion resistant screws that are a minimum of 1 ½" in length. The screw should be able to penetrate the roof deck sheathing by at least ¾" in depth. The use of a longer fastener may be needed when roofing over existing shingles.

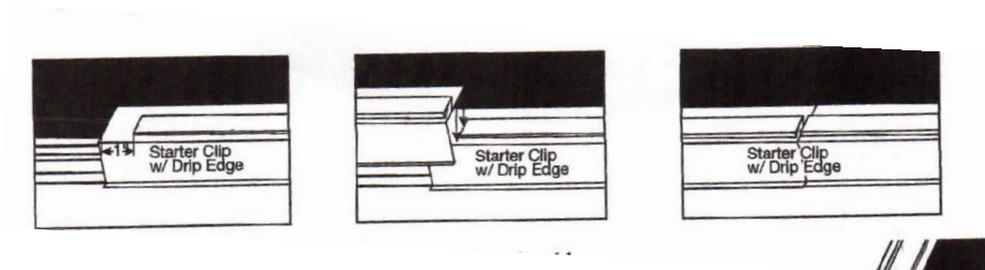
The Perfect Panel Trim and Accessories Installation

The Perfect Panel has been designed to always be started on the left side of the roof.

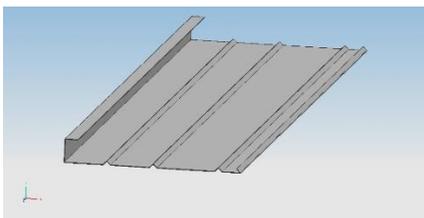
Starter Strip



When joining the starter strips together, cut off the top clip and overlap the next piece 2". The top clip on the starter strip will need to be cut back 4" anywhere a hip, valley, gable, endwall or sidewall is located to allow for the trim pieces to attach properly. Place 1 1/2" screws every six inches.

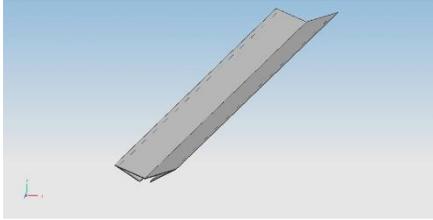


RoofKO Channel



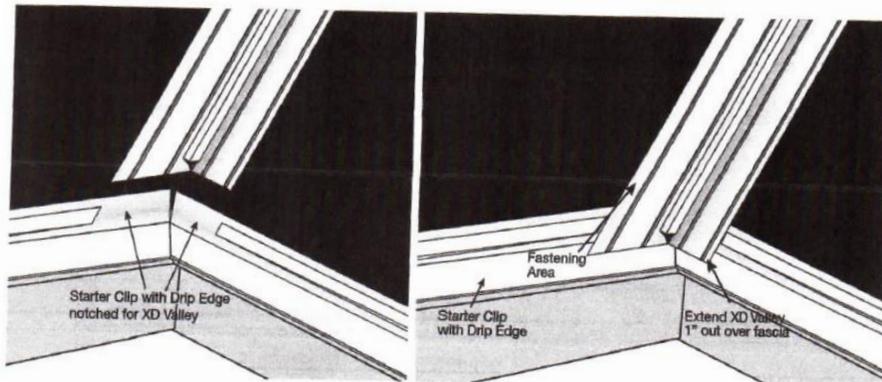
The RoofKO Channel will be positioned in the valleys, gables, hips and ridges, sidewalls. When installing in two pieces back to back, like in a valley, a 2" strip of mastic tape must be used to join them together.

Valley and Valley Cap



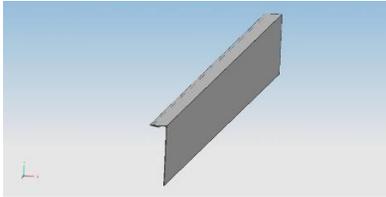
Make sure the starter strip's top clip has been notched out 4" so that the RoofKO Channel will install over the top of it and hang past the eave by 1". Install two of The Perfect Channel in the center of the valley back to back. The channels should run past the edge of the eave by 1". Continue adding channels along the entire valley area starting at the bottom. Each new channel should overlap by 6". Place a bead of mastic along the overlap of the RoofKO Channel. Install 1 1/2" screws every six inches along the fastening area of each side of the channel. Adhere the 2" mastic tape along the top clips. The valley cap should be installed by either sliding it into place or snapping it onto the clips. Each piece of valley cap should be fastened on with a 3/4" screw through the top of the cap into one of the channel clips. The valley caps should not overlap each other.

INSTRUCTIONS.

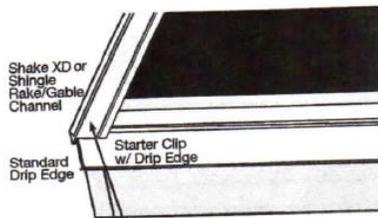


Gable and Fascia Cover

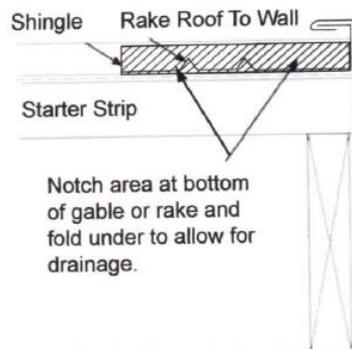
The RoofKO Channel will install over the top of it and hang past the eave by 1". Overlap additional channels by 6" to reach the top of the gable. Fasten the channels with 1 1/2" screws every 2' in the fastening area.



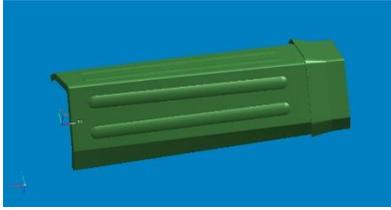
Install the stone coated fascia cover by clipping it into the RoofKO Channel on the gables. Install additional covers without leaving a gap. Using a panel screw, fasten it every 3' along the fastening area.



Rake/Roof to Wall Accessory Metal



Hip



Adhere the 2" mastic tape along the top clip. Continue adding channels along the entire hip starting at the bottom. Each new channel should overlap by 6". Place a bead of mastic along the overlap. Install 1 1/2" screws every two feet along the fastening area of each side of the channel. The ridge cap should be installed by fastening a screw into both sides of the hip into the channel.(Fig 1) Each piece of ridge cap will lock into the previous ridge cap. Each piece should be fastened on with a 3/4" screw through the top of the cap into both of the channel clips. Finish the ends by placing a disk accessory panel to the end cap and fastening it to the ridge.

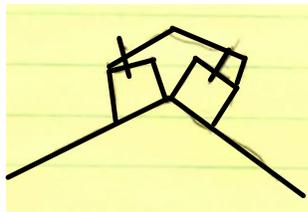
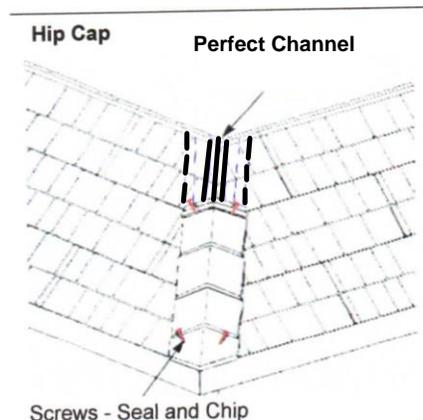
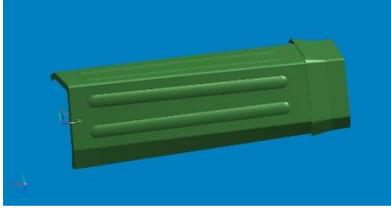


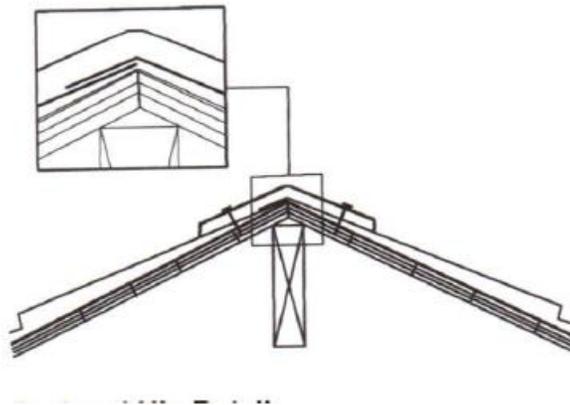
Fig 1



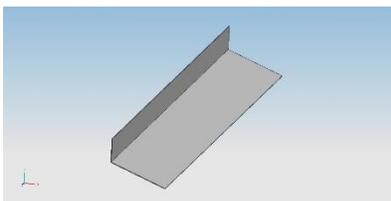
Ridge



When the final top course of The Perfect Panel has been installed, the ridge cap should be installed. Install the RoofKO ridge accessory or 2x2 lumber to the entire length of the roof. Using a 3/4" screw, secure the first ridge cap directly to the panel. Each piece of ridge cap will lock into the previous ridge cap. Each piece should be fastened on with screws through the overlaps. Finish the ends by cutting a panel to make a custom end cap and fastening it to the ridge.

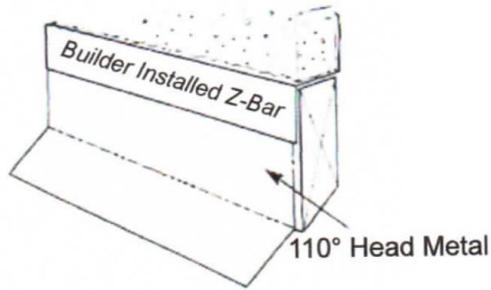


Endwall



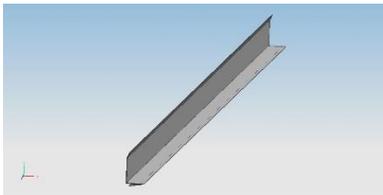
When the top course of The Perfect Panel reaches an endwall, it may need to be cut. The endwall trim should tuck up under the siding and be fastened into The Perfect Panel. In certain applications where the endwall cannot be tucked under siding or with brick or stucco, anchor the trim to the wall and place a bead of roof

grade sealant along the endwall cover and the siding to seal. Overlap each additional endwall trim a minimum of 2".

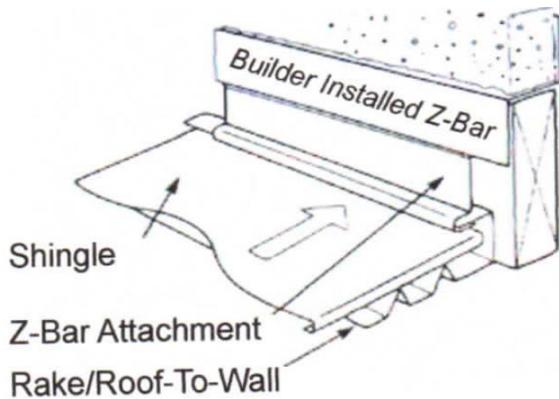


Take off Builder installed Z Bar

Sidewall



The RoofKO Channel should be installed against the sidewall with 1" hanging past the eave and over the starter strip. Screw on the channel every 2' with 1 1/2" screws. Starting at the bottom, overlap all additional channels a minimum of 2". Install the sidewall cover by clipping it onto the top clip of The RoofKO Channel.



Take off builder installed z bar

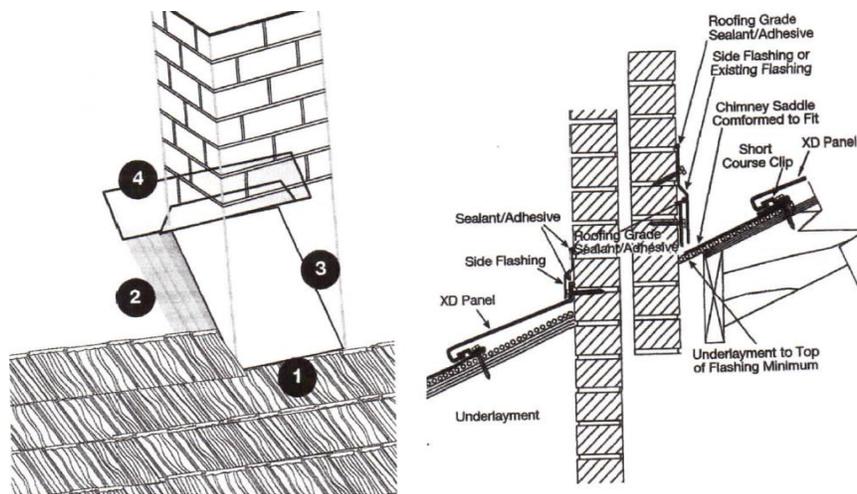
Roof Penetrations: Chimneys & Skylights

The RoofKO Channel should be used on the two sides of the chimney or skylight. Skylights must be a "curb" type to be used with The Perfect Panel system. The

sidewall covers will be installed on the sides, and the endwall cover will be installed on the bottom. The area above the chimney must be flashed with a chimney saddle. The chimney saddle should be tucked under the siding. For stucco and brick, counter flash over the top of the chimney saddle. A closure foam will be needed to fill any gaps. A roofing grade sealant should also be used on the top of the flashing over the chimney saddle.

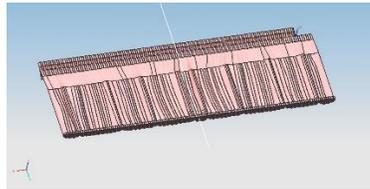
Should there be a cricket above the chimney, finish it like a valley.

A flat sheet is available to be used for certain installations where the channel may not be sufficient enough.



Roof Penetrations: Plumbing Vents & Pipes

All roof penetrations should be completed before installing The Perfect Panel system. Install a blank penetration shingle without any stone granules, and install the pipe jack. Cut a hole into the full Perfect Panel so it fits snug around the pipe.

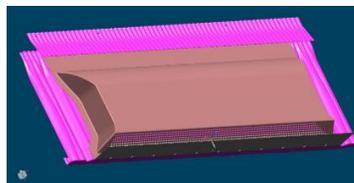


The Perfect Panel Installation

The Perfect Panel system has been designed to be installed from left to right. Using a full panel, clip onto the starter strip locking it into place. The panels have five predrilled holes for screws to fasten the panel to the roof. Continue to install full panel panels without leaving a gap between panels.

The second and subsequent courses will be installed by locking into the clip of the panel below. In order to not create a pattern, install panels randomly. Make sure the seams are 11 ½" apart between rows.

In the valleys and gable ends, make sure to cut off 4" of the bottom locking mechanism on all of the courses to allow for drainage.



The Perfect Vent

Install The Perfect Panel to where the attic vent location will be. If there is not already an opening in the roof deck, cut a rectangular hole 30" wide x 6" high.

The opening in the roof should match the opening underneath the vent panel. The Perfect Vent panel will install just like a normal panel. Lock it into place with the panel below it and use the five predrilled screw holes to secure it to the roof.

Roof Venting

The Perfect Panel comes with a Perfect Vent panel. The roof deck must be prepared for this type of attic venting by cutting into the roof sheathing. Determine how many vent panels will be used and the locations, and cut a rectangular hole 30" wide x 6" high.