

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RV-18

Effective June 1, 2005

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation 3 years after the effective date.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

RidgeMaster, RidgeMaster Plus, and HipMaster ridge vents, as manufactured by

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will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

RidgeMaster, RidgeMaster Plus, and HipMaster roof vents are injection molded of polypropylene in 4-foot sections. The roof vents are installed over slots cut in the ridge and hips of roofs to provide ventilation of attic spaces, usually in conjunction with soffit vents.

LIMITATIONS

Design Wind Pressure: -56 psf

Roof Slope: The RidgeMaster may be installed on roof slopes from 3:12 to 16:12. The RidgeMaster Plus and HipMaster may be installed on roofs from 3:12 to 12:12.

For All Applications: The RidgeMaster and RidgeMaster Plus are acceptable for installation on roof ridges only. They may not be installed on hip areas. The HipMaster is acceptable for installation on hips and roof ridges.

INSTALLATION INSTRUCTIONS

General Installation Requirements:

All requirements specified in the International Residential Code (IRC) and the International Building Code (IBC) must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Roof deck: The roof deck shall consist of wood structural panels with a minimum thickness of $\frac{15}{32}$ ".

Ridge and Hip Slots: For existing roofs, remove the old cap shingles. For new roofs, leave the felt along the ridge and hip. Cut an air slot along the ridge and/or hip in accordance with the manufacturers recommendations. The cut should leave a $\frac{1}{2}$ " air opening on each side. All slot cuts should end 12"

from the outside wall, chimneys, ridge corners, or hip joints. Hip slots should start halfway up the roof hip and end 36" from the top of the hip, unless joining up to a ridge vent. Hip slot cuts should be no longer than 24" and spaced about 12" apart.

Ridge and Hip Cap Shingles: Install ridge and hip cap shingles over the portions of the ridge and hip that are not slotted.

Fastening Ridge Vent: Nail the vent to the roof through the 14 supporting nailing bosses (holes). Use minimum 11 gauge galvanized roofing nails with a nominal $\frac{3}{8}$ " diameter head. The fasteners must be long enough to penetrate through the roof vent and through the roof sheathing a minimum of $\frac{1}{4}$ ". Nail in the sequence shown below. Join the vents together using either the slotted ends on the RidgeMaster or the interlocking ends on the RidgeMaster Plus and HipMaster. Note: When installing the HipMaster, make sure the arrows on all hip vents point up towards the top of the roof.

Cap Shingles Applied over Vents: Nail the ridge and hip cap shingles over the vents using two of the above sized nails per shingle. The fasteners must be long enough to penetrate through the roof vent and through the roof sheathing a minimum of $\frac{1}{4}$ ". Install a shingle cap at the ends of each ridge. For RidgeMaster vents, snip the ends of the vents using the guides to match the pitch of the roof. No trimming is required for the RidgeMaster Plus. At each end of the ridge, either install a soft End Gasket at the exposed end of the outside vent, or seal the ends with roofing cement. With laminated or architectural style shingles, the baffles on the underside of the vent must sit flush on the flat part of the shingles, and not overhang a slot cutout.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).