

B. Wind Resistance

Regal Crest Shingle has been lab-tested to withstand winds and wind-driven rain.

1.03 Quality Assurance

A. Contractors

Specifications

Part 1 – GENERAL

12" x 36" interlocking aluminum panels pressed to simulate wood shingles. Butt thickness varies, with a maximum of 3/4". Used for residential and commercial roofs, sidewalls and mansards.

1.01 Supplier

Nu Look Exteriors
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Phone: 952-882-8787
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1.02 Scope of Work

The scope of work includes, but is not limited to, the installation of all pre-formed panels, pre-formed accessories and field-formed accessories such as miscellaneous flashings and attaching devices, as well as sealant and touch-up paint where needed.

The installing contractor will comply with installation procedures outlined in the manufacturer's installation manual. Installation questions will be posed directly to the manufacturer. The installer will take precautions to protect the panels from damage during installation.

B. Warranties

This product carries a 20-year Warranty. Full warranty details are available from the manufacturer.

C. Codes

This product carries the following code:

U.L. File.....R-5100

1.04 Protective Properties

A. Thermal Performance

Because it is manufactured from aluminum, a known radiant heat barrier, Regal Crest Shingle is likely to reduce attic heat gain by reflecting radiant heat.

Additional fasteners can be used for increased wind resistance.

C. Fire Resistance

The normal underlayment of 30 lb. asphalt saturated organic felt confers an I.C.B.O. Class C fire rating for both new and reroofing applications. The following are types of underlayment needed to meet Class A or B ratings:

New Roofing Class B

One layer of 72 lb. fiberglass mineral surface cap sheet.

New Roofing Class A

Two layer of 72 lb. fiberglass mineral surface cap sheet.

00 Manufactured Roofing and Siding
Reroofing Class B

One layer of 72 lb. fiberglass mineral surface cap sheet (for reroofing over wood shingles); one layer of 28 lb.

PART 3 – INSTALLATION

Note: Installers will work from above the shingles wherever possible. On steep

30 lb. asphalt-saturated organic felt is applied to the entire roofing surface using washer-head roofing felt nails. Refer to section 1.05C

Specifications

asphalt-saturated fiberglass roll roofing felt (for reroofing over composition shingles.)

PART 2 – PRODUCT

2.01 Materials

All aluminum materials, including pre-formed panels, pre-formed accessories and flashings, and matching coilstock are made of 3105 H24 aluminum building products sheet, consisting of at least 98% recycled content.

2.02 Finish

All Materials as listed above are coated with an acrylic enamel finish, available in fifteen colors. Custom colors may be available.

2.03 Additional Materials

Other Materials available from the manufacturer include terpolymer butyl rubber sealant, nail clips, touch-up paint, pipe flashings and screwshank nails.

roofs shingles are installed using appropriate scaffolding, ladder jacks and walkboards.

3.01 Pitch

This roofing system is designed for roofs of 3:12 pitch or greater. It can also be used for mansard and sidewall applications.

3.02 Decking

Regal Crest Shingle's low weight of 40 pounds per 100 square feet allows installation over existing roofs. Installation requires solid decking or existing wood shingles left in place on top of spaced sheathing. Regal Crest Shingle cannot be installed directly over spaced sheathing.

3.03 Underlayment

In the case of either a new roofing application or reroofing over asphalt, composition, fiberglass or thin wood shingles, a minimum underlayment of

for details on fire ratings for different types of underlayment.

3.04 Panels

Regal Crest Shingle panels have a four-way interlock system that locks each panel to the surrounding panels. Successive courses are started with full, $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{1}{4}$ panels to obtain the proper stagger. The 12" by 36" panels are secured to the roof using nails through all clips (SH-409). Five nail clips are attached evenly across the panel's top lock. This allows panels to expand and contract as necessary. On installation over existing shingles on spaced sheathing, the nail clip can

00 Manufactured Roofing and Siding be used on the right-hand lock at a level which allows secure fastening through the old shingles and into a lathe board.

3.05 Fasteners

On installations with plywood or similar decking, aluminum screwshank nails, available from the manufacturer, are used in

Special gable flashing for flared gables is also available.

C. Ridge Caps

Gable Edge Trim, a 12' all-in-one lineal channel, is attached at the gable ends with nail clips on 6" centers. Special gable flashing for flared gables is also available.

C. Ridge Caps

are installed by locking the front edge of each hip cap onto the butt edge of the shingles on either side of the hip. The top lock of the shingle is slit to allow the hip cap to extend its full length up the roof. Fasteners can be driven through concealed areas, such as overlapped areas of the next shingle course and the uphill portion

Specifications

sufficient length to fully penetrate the decking.

3.06 Pre-Formed Accessories

The following accessories are pre-formed by the manufacturer and have the same finish and colors as Regal Crest Shingle.

A. Eaves

The shingles are started at the eaves using RSH-602, a 12' eave starter strip with integral drip edge. The combination starter strip/drip edge prevents water from blowing under the shingles at the eave.

B. Gables

Gable Edge Trim, a 12' all-in-one lineal channel, is attached at the gable ends with nail clips on 6" centers.

Prior to ridge cap installation, the ridge is made watertight by bending the last course of shingles over the ridge or by installing a field –formed flashing. Ridge caps (RSH-607) are started at the gable and continue the length of the ridge. The bottom butt flange of each succeeding cap is joined to the top flange of the previous cap. Each cap is attached to the roof with two nails through pre-punched holes and two nails through nail clips. Aluminum ridge venting systems can also be used with Regal Crest Shingle.

D. Hip Caps

When shingles reach a hip, they are cut and formed to lap over each side of the hip line by no more than three inches. Hip Caps (RSH-608)

of the hip cap.

E. Valleys

Two valley systems are available: SH-425 is an open valley and RSH-618 is a closed valley. Both systems feature protective flanges to prevent water infiltration. Closed valley (RSH-618) is strictly for roofs of 6:12 or greater pitch, in areas not subject to rooftop debris such as leaves, ice or snow. Open valley (SH-425) can be used for all areas. Consult the manufacturer concerning which valley system to use, it necessary.

F. Vent Pipe Flashing

Aluminum –base flashings with neoprene boots are available from the manufacturer. During installation, return flanges

00 Manufactured Roofing and Siding are bent on the sides of these flashings to prevent water from running laterally. As always, uphill flashings are kept on top of downhill flashings.

G. Sidewall Flashing

Where the roof meets a sidewall, sidewall flashing (RSH-621) will be installed to prevent water from getting under the shingles. RSH-621 is a "J" channel with a return flange on the roof deck and a leg extending up behind the sidewall covering. The bottom of the "J" channel rests on the roof deck, under the shingles.

3.07 Field-Formed Accessories

In some cases, flashings are field formed using a hand brake. Flashing coil for this purpose is available from the manufacturer, again with the same finish and available colors as Regal Crest Shingle.

In every case, uphill flashings must overlap downhill flashings. Consult the manufacturer concerning any unusual flashing application.

A. Attic Vent Flashing

First, shingles are cut, and flattened if necessary, to allow for the installation of the attic vent. Sealant and felt are then layered around

the opening. When shingles are installed uphill of the vent, it is important to keep all uphill flashings on top of downhill flashings. Shakes will fit tightly around the vent. Sealant and touch-up paint are applied as necessary.

B. Chimney Flashing

A saw cut is made into the stone or brick, parallel to the roof deck and approximately six inches above it. A flashing is bent to be received into this saw cut and to extend down and out onto the roof deck about five inches with a return flange. Shakes are installed over this roof deck flashing and butted against the side of the chimney and sealed.

C. Skylight Flashing

Only skylights which extend at least three inches above the roof deck are to be used with Regal Crest Shingle. A flashing is formed to extend up the skylight side and out onto the roof deck with a return flange.

PART 4 – MAINTENANCE

4.01 Walkability

Regal Crest Shingle panels can be walked on their upper halves. Also, planks can be laid on the installed shingles (protected by carpeting,

cardboard, etc.) to distribute the weight of roof traffic.

4.02 Repairs

In the event of limited damage, shingles can be repaired by capping over damaged panels with new panels. More extensive damages are repaired by removing existing roof sections.