REAR GUTTER COVER CLOSURE
DIVERTER DEVICE

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Appl. No.: 11/242,310
Filed: Oct. 3, 2005

Publication Classification
Int. Cl.
E04D 13/00 (2006.01)

U.S. Cl. 52/11

ABSTRACT
A closure device for the posterior area of the standard rain gutter with a gutter shield installed where the gutter extends past the fascia edge for a variable distance terminating at the gutter shield end closure. This posterior area extending from the top of the posterior of the gutter to the underside of the gutter shield. The closure device is comprised of a sheet of material formed with a primary planar surface that lies atop the roof and is securable to the roof. The primary surface is followed by planar surface at a variable angle, which extends into the rain gutter trough. This planar surface is secured to the posterior wall of the gutter trough and fascia. The primary surface has a lateral planar extension that is at a 9 degree angle to the primary surface and roof deck.
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BACKGROUND

[0001] This invention relates to a closure for the posterior aspect of a gutter cover system. In particular, this invention relates to a closure device for the area of the gutter cover system where the posterior wall of the standard rain gutter, lying parallel to the lower edge of the roof deck and being secured to the fascia, is extended past the fascia edge to the roof covering edge.

[0002] A standard rain gutter is installed so that it extends approximately 1/2 in. past the edge of the corner shingle. This allows capture of all of the rainwater coming off of the roof. When a gutter cover is installed, particularly a gutter cover, which is, installed under shingles (such as U.S. Pat. No. 5,640,809), the area at the posterior wall of the gutter along that extended edge, open.

[0003] This area, if it remained uncovered, is large enough for debris, birds or small animals to enter. This could lead to obstruction of the flow of water in the gutter. Rainwater could spray out from this area during a hard rain. This could result in water damage to the structure and staining of the wall and gutter.

[0004] Currently, the gutter cover installer will cut a small piece of metal to cover this area and secure it with screws to the posterior wall of the gutter. This method will prevent debris from entering the system but birds and small animals can apply enough pressure to the corner of that piece of metal to allow entry. Dependent upon the skill of the installer, this method is not always very aesthetically pleasing.

[0005] This invention is a gutter cover closure device for said posterior wall of the standard rain gutter with a gutter cover system installed. Specifically, it is a closure for the posterior area of the system, which extends past the wall edge.

[0006] This invention has a main body that is installed under the edge of the shingles, at the lower outside corner of the roof. It is secured to the roof deck under the shingles, with screws or roofing nails. The outer edge of the main body has an extension of metal which is bent upward at a 90 degree angle to divert rainwater onto the gutter cover and into the rain gutter. This extension is cut with a protruding end that overlaps the gutter cover end cap.

[0007] The lower section is an extension of meal which is bent downward to at least a 30 degree angle. This bend can be adjusted to fit the angle of the roof. This section is positioned against inside of the posterior wall of the rain and is secured to the posterior wall of the gutter and fascia with a screw. It can also be secured to the end closure device of the gutter cover dependent on the type of cover installed. The lower section is notched and has an angle cut on one side to permit the positioning of the gutter cover end closure.

DRAWINGS

[0008] FIG. 1 illustrates the cuts of the invention prior to the appropriate bends being made.

[0009] FIG. 2 is a bottom perspective view of the device after appropriate bends have been made.

[0100] FIG. 3 is a perspective view illustrating the position of the invention in relation to the gutter and roof deck with the roof covering removed to show placement.

[0101] FIG. 4 is a perspective side view of a left side installation which illustrates the exposed areas of sections 1 and 3 of the invention and the overlap of section 3 on the gutter cover end cap.

[0102] FIG. 5 is a perspective side view from the rear that illustrates the exposed surface of the invention in relation to the gutter and gutter cover.

[0103] This perspective illustrates the complete closure of the rear of the gutter cover by section 2 of the invention.

DETAILED DESCRIPTION

[0104] The invention consists of 3 continuously connected sections being divided from each other by angular cuts and bends.

[0105] FIG. 1 is a planar view of the invention prior to appropriate bends being made. The main body (1) of the invention is rectangular in shape with a length (R) of 8 inches. The main body has a standard width (S) of 4 inches. The width of the main body can be increased for installation on roof decks with excessive roof covering overhang or excessive gutter extension.

[0106] Section 2 is quadrangular in shape with an upper width (U) of 3½ inches and a lower width (T) of 3 inches. One side (4) of section 2 is a continuation of the main body edge. The opposite side (5) is cut narrower than the main body-width at the upper edge (6) and is diagonal to the lower edge (7). This notching allows positioning of a gutter shield end closure.

[0107] Section 3 is parallel to and a lateral extension of the main body. This section has a 1-inch extension (8) on the lower end. This extension overlaps the end closure of the gutter shield to divert rainwater onto the gutter cover and prevent overflow of rainwater onto the end closure device. This lower extension has a diagonal cut on the upper corner (9) for aesthetic purposes. The upper 5 inches (10) of section 3 are cut at a diagonal for aesthetic purposes.

[0108] FIG. 2 is a bottom perspective view of the invention after appropriate bends have been made. Edge 11 of Section 3 is a 90° angle upward from the main body of Section 1. Edge 6 is a 30-degree angle downward from the main body Section 1. The angle of edge 6 is adjusted to the angle of the roof deck in relation to the fascia (12) and the posterior wall (16) of the gutter.

[0109] FIG. 3 reveals the positioning of the invention with the roof covering material removed to expose the roof deck. Rain gutter (19) can be of any size or shape and made of any material. Due to the method of installation used for roofing when slate or tile is used as a roof covering material, this invention should not be used with slate or tile roofs. Section 1 is positioned on the roof deck under the roof covering material (14) with angular edge 11 parallel to the edge of the roof deck and cove material. Angular edge 6 is positioned on the roof deck (15) where it meets the fascia (12). Section 2 is positioned inside the gutter trough against the posterior wall (16) of the gutter and overlapping the fascia (12). The main body Section 1 is secured to the roof deck (15) under the roof covering material (14) using a screw or roofing nail (17).
Section 3 extends upward from section 1 at a 90 degree angle. The upper edge (18) of section 3 is parallel to the roof deck. The roof covering material (14) is positioned over the main body of the invention and the outer edge (13) of the roof covering material butts up against section 3.

FIG. 4 is a perspective side view from the bottom with a gutter shield (21) installed. This view shows the position of the bottom edge (8) of Section 3 overlapping the end closure device (20) of a gutter shield. The bottom side of section 1 is visible beyond the underside of the roof covering material. The upper edge of the rake board (22) butts up against the bottom side of the roof deck covering material and the invention.

FIG. 5 demonstrates the complete closure of the posterior side of the gutter cover with cover by Section 2 of the invention.

The invention is made of metal, aluminum or copper to match the material of the gutter and to maintain its shape. The color of the invention should be consistent with the color of the gutter shield. The invention can be used without a gutter cover to prevent rainwater splashing over the posterior wall of the gutter or to divert rainwater into the gutter. The invention can be reversed to fit the right roof edge.

1. A gutter cover rear closure device with diverter which:
   1. securely closes the posterior mar of the gutter shield system, which extends past the fascia edge.
   2. prevents any debris, birds or small animals from the entering the posterior area of the gutter shield system, which extends past the fascia edge.
   3. can be made of metal including aluminum or copper.

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