

# TECHNICAL ADVISORY BULLETIN



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To: GAF Residential Sales, GAF Contractors, GAF Field Services

From: Technical Services Department

**Subject: Basic Installation of Shingles on a Cone Roof**

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## What Are Considered Cone Roofs?

**By definition...** Cone roofs consist of a circular base with sides tapering up evenly to a point.

**Types of cone roofs...** There are cones with "flat" sides and with "round" sides.

- Cones with three sides tend to look like a pyramid.
- Cones with ten or more sides appear rounded.

## How Do I Roof A Flat-Sided Cone?

**For a flat-sided cone, start by ...** installing GAF ShingleMate®, Roof Pro™, TigerPaw™ or Deck Armor™ roof deck protection (underlayment) from the peak to the base, vertically. Trim excess overlap prior to installing shingles.

- On each of the flat sides of the pyramid, a vertical chalk line is snapped from the tip of the cone to the center of the eave. Shingles are applied to the flat areas and cut at the hips.
- Continuous horizontal chalk lines should then be snapped around the cone to ensure that the shingles line up on all sides.
- On slopes greater than 21:12, the shingles should be hand sealed.
- To complete the hip joints, a standard hip and ridge shingle may be used.

## How Do I Roof A Round-Sided Cone?

**For a round-sided cone, start by...** installing GAF ShingleMate®, Roof Pro™, TigerPaw™ or Deck Armor™ roof deck protection from the peak to the base, vertically. Trim excess overlap prior to installing shingles.

**For a cone...** that the base diameter is slightly wider than the cones height:

- Snap two vertical lines from the peak to the base. These lines should be about 36" (or 39" for metric) apart at the base.
- Use the vertical lines at the base as guide for your shingles.
- In the first course, a full width shingle will fit between the two lines.
- As you move up the cone, this distance narrows and you will need to trim the shingles to fit between the lines.
- To minimize waste, divide the cone into three zones, top, middle, and bottom.
- Mark the zones by attaching a string to the cones peak and using chalk, mark a line around the circumference (see figure 1).



Figure 1

**In Zone 1...** (the base) use a full-width shingle between two vertical lines.

**In Zone 2...** (near the middle) use two thirds of a shingle.

**In Zone 3...** (near the peak) use one third of the shingle.

- To mark the division between Zones 1 and 2, cut a two-thirds width shingle and fit exactly between the two vertical lines and scribe a line around the cone.
- To mark the division between Zones 2 and 3, cut a one-third width shingle and fit exactly between the two vertical lines and scribe a line around the cone (see figure 2).
- At the base of the cone, there will be little shingle overlap. As you move up the cone, the side overlap is increased.
- Trim the shingles in an angle parallel to the flow of water. The angle may be determined by pulling a string line from the top of the cone to the base and then trimming along that line.
- Shingle end joints should be offset 3" or more to prevent water infiltration.

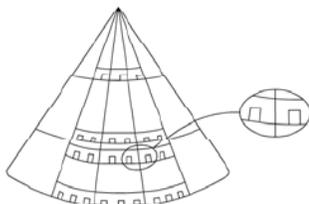


Figure 2

## Where Can I Get More Information?

**GAF Technical Services Can Assist You...** with these and other questions you may have regarding your new roof installation. GAF Technical Services can be contacted at **800-ROOF-411** (800-766-3411). Also, the GAF website is a great resource for just about any question you may have or for additional information you may require. Please visit [www.gaf.com](http://www.gaf.com) to find the latest information on our products and their installation.

**Important:** This document supersedes any prior GAF Technical Advisory Bulletins on this topic. Please always check [www.gaf.com](http://www.gaf.com) to make sure you have the most up to date information.