

# Timberline® and Sovereign® Expanded Fastener Placement Area

## Information Sheet

Updated: 2004



***Quality You Can Trust Since 1886...  
From North America's Largest Roofing Manufacturer™***

# ***Less Fastening Hassles!***

*Announcing Fastening Improvements on*

***TIMBERLINE***<sup>®</sup> *and* ***SOVEREIGN***<sup>®</sup>  
**ARCHITECTURAL SHINGLES** **SERIES 3-TAB SHINGLES**

## ***The Problem...***

***Contractors & property owners are frustrated  
over shingle fastening issues, due to:***

- Most major shingle manufacturers' application instructions too rigid for fastener placement
- Warranty denial for blow-offs...based on fastening patterns—even when the *real* problem is a material defect!
- Installation rejections...by code officials and consultants who are assuring compliance with what are overly restrictive manufacturer application directives
- Mandatory removal and re-application of shingles—costing time and money

## ***The Solution...***

GAF's expanded approved fastener placement area (see reverse for details), resulting in:

- ***Greater flexibility in fastener placement***
- ***Efficient installation while maintaining highest quality***
- ***Reduced risk of unnecessary and costly rework***

## ***The Proof...***

Will these expanded fastener options adversely affect wind uplift resistance?

***No !!!***

- ***UL testing (UL997) conclusively proves that, once the shingles have sealed, GAF's new expanded fastener placement will NOT adversely affect wind resistance***
- ***GAF's long-term field experience supports the conclusions of UL 997 testing***



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MARQUIS®  
**WeatherMax®**  
SHINGLES

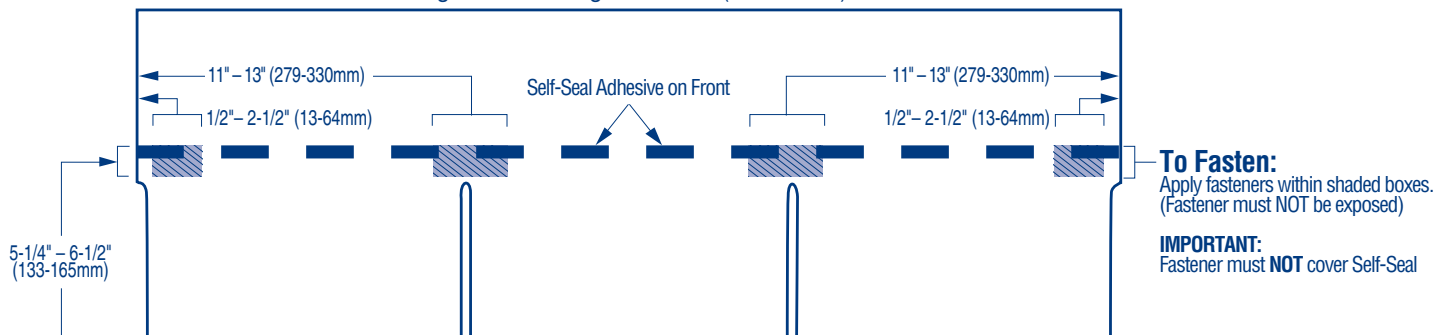
ROYAL  
**SOVEREIGN®**  
SHINGLES

**SENTINEL®**  
SHINGLES

## APPLICATION INSTRUCTIONS

### Four Nail Pattern

English Size Shingle: 12" x 36" (305-914mm)



### Require A Six Nail Fastening Pattern?

Use the directions above with the following modification:  
Replace the inner two fastening locations with four fastening placements.  
Place two fasteners 9" (229mm) from either end +/- 1" (25mm), and place two additional fasteners 14" (356mm) from either end +/- 1" (25mm).

## GENERAL INSTRUCTIONS

- **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Where a Class A rating is required over decks less than 15/32" thick, an underlayment is required. **Do not** fasten shingles directly to insulation or insulated deck unless authorized in writing by GAFMC. Roof decks and existing surfacing material must be **dry** prior to application of shingles.
- **UNDERLAYMENT:** Underlayment beneath shingles has many benefits, including preventing wind driven rain from reaching the interior of the building and preventing sap in some wood decking from reacting with asphalt shingles. Underlayment is also required by many code bodies. Consult your local building department for its requirements. Where an underlayment is to be installed, a breather-type underlayment such as GAFMC's Shingle-Mate® underlayment is recommended. Underlayment must be installed flat, without wrinkles.
- **FASTENERS:** Use of nails (rather than staples) is recommended. Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. If the temperature is below 40° F or in areas where airborne dust or sand can be expected before sealing occurs shingles **must** be hand sealed (see WIND RESISTANCE/HAND SEALING).
- **WIND RESISTANCE/HAND SEALING:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances

results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing, apply quarter-sized dabs of shingle tab adhesive on the back and at the corner of each tab. The shingle must be pressed firmly into the adhesive. For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

NOTE: Application of excess tab adhesive can cause blistering of the shingle. The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

- **CANADIAN COLD WEATHER APPLICATIONS:** CSA A123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistance for GAF Materials Corporation's recommendations for the application of that adhesive.

- **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21" (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 2 quarter-sized dabs of shingle tab adhesive on the back of each tab as indicated in Wind Resistance above. The shingle must be pressed firmly into the adhesive.

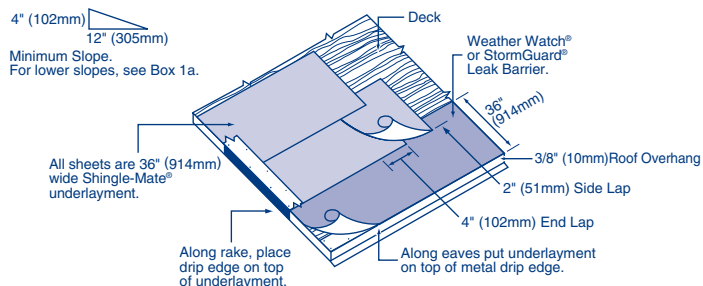
- **EXPOSURE:** 5" (127mm)

- **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Proper ventilation is also necessary to help prevent mold growth. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements.

- **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

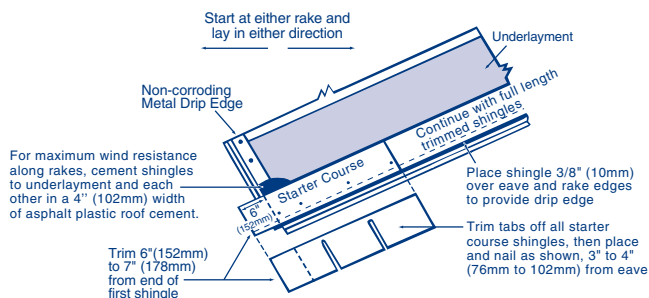
- **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

- 1 Underlayment: Standard Slope—4/12 (333mm/m) or more**  
**Application of underlayment:** Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.  
**Application of eave flashing:** Install eave flashing such as GAFMC Weather Watch® or StormGuard® Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



## 2 Starter Course

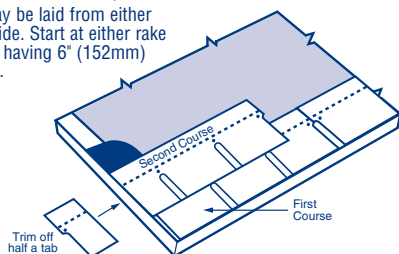
Apply as shown.



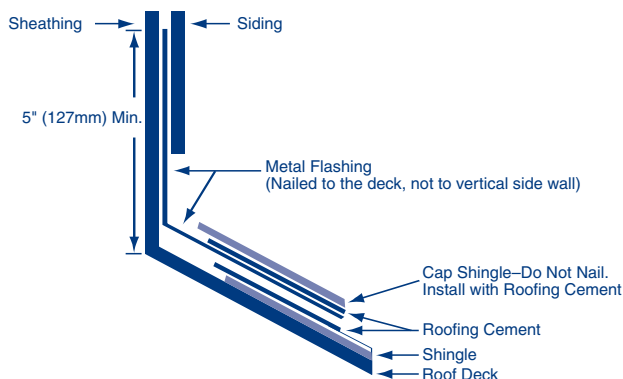
## 4 Second and Subsequent Courses

Start the second course with a shingle that has a half tab removed. Continue the subsequent courses by removing tabs as follows: third course trim full tab, fourth course trim 1-1/2 tabs, fifth course trim 2 tabs, sixth course trim 2-1/2 tabs. Strike a chalk line every six courses to check for alignment to the eave edge. Begin seventh course with a full shingle, and repeat the pattern above for subsequent courses.

**NOTE:** Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.

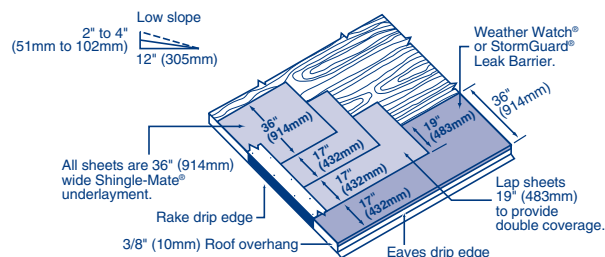


## 6 Wall Flashing (Sloped Roof to Vertical Wall)



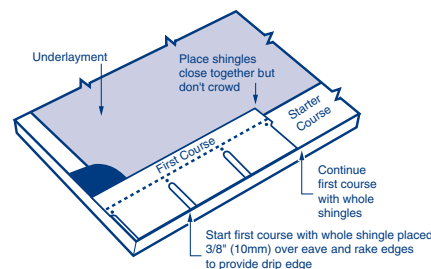
## 1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

**Application of underlayment and eave flashing:** Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAFMC Weather Watch® or StormGuard® Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate® underlayment.



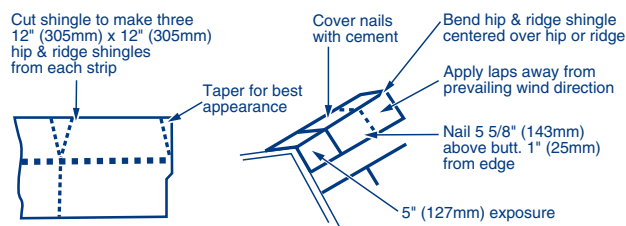
## 3 First Course

Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. **DO NOT** lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.

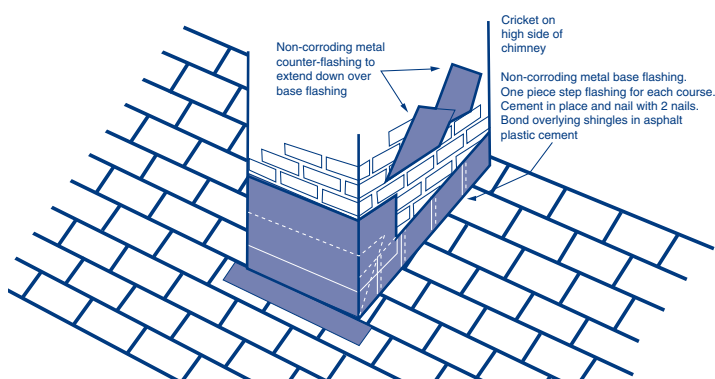


## 5 Hip and Ridge

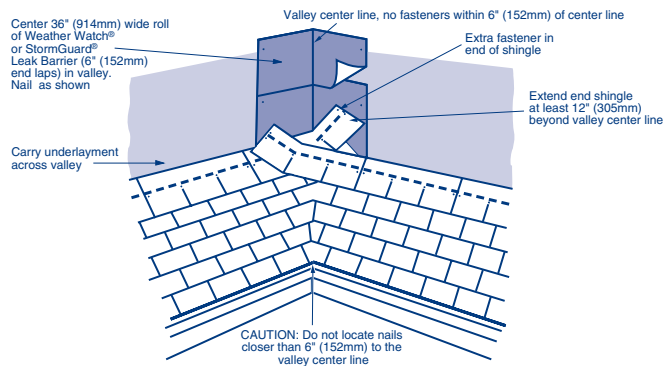
Use GAFMC hip & ridge shingles, or cut hip & ridge shingles from these full shingles, and apply as shown. Position laps away from prevailing wind direction.



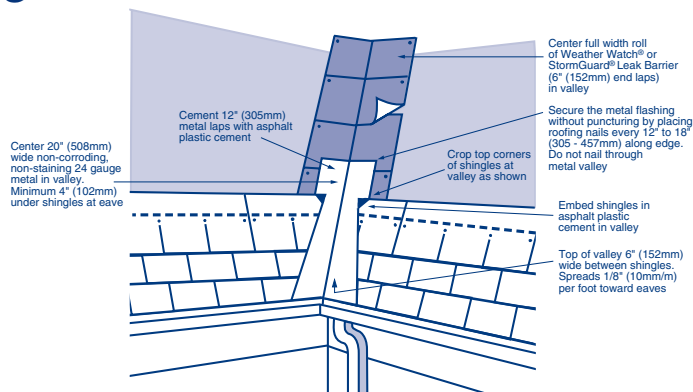
## 7 Chimney Flashing



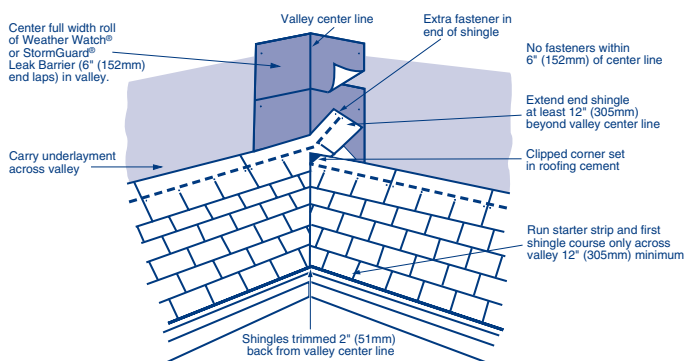
## 8 Valley Construction - Closed or Woven Valley



## 9 Valley Construction—Open Cut



## 10 Valley Construction—Closed Cut



### Precautionary Notes

These shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Do not drop bundles on edge, over the ridge, or on other bundles to separate shingles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Store in a covered, ventilated area—maximum temperature 110°F (43°C.). Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

**IMPORTANT: Repair leaks promptly to avoid adverse effects, including mold growth.**

### Re-Roofing

If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application. *Note:* Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper may be obtained from GAF Materials Corporation or at [www.gaf.com](http://www.gaf.com). Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.