



RE-ROOFING CHECKLIST

HIGH WIND



FORTIFIED HOME™ – HIGH WIND RE-ROOFING CHECKLIST

1. Pre-Qualifications

- 1.1 **FORTIFIED Roof™ and FORTIFIED Silver™ designations:** minimum roof sheathing thickness is 3/8 in. (with roof framing spaced at 16 in. o.c., maximum).
- 1.2 **FORTIFIED Gold™ designations:** minimum roof sheathing thickness is 7/16 in. (with roof framing spaced at 24 in. o.c., maximum).
 - 1.2.1 Roof decks with less than 7/16 in. sheathing can be re-decked with 7/16 in. sheathing.^(3.1) Retrofit solutions provided by a professional engineer may be considered.

2. Roofing Scope

- 2.1 Is the home within 3,000 ft of salt or brackish water? **If yes**, hot-dip galvanized and/or stainless steel fasteners are required. See [Technical Bulletin FH 018-01](#) for more information.
- 2.2 Remove all existing roofing material. Replace any damaged wood.
- 2.3 [Re-nail the roof deck](#) with 8d ring-shank nails^(3.2) at 6 in. o.c. **Documentation:** Photograph the fastener package and the spacing of the installed new fasteners in four locations, including at least one gable.
- 2.4 Seal the roof deck (choose one of the following three options).
 - 2.4.1 Option 1 - [Install a self-adhered \(peel-and-stick\) membrane](#)^(3.3) over the entire roof deck. Recommend #15 felt as bond break between membrane and shingles. **Note:** Manufacturers emphasize the need for adequate attic ventilation when this type of membrane is applied over the entire roof. **Documentation:** Photograph the installed self-adhered underlayment.
- OR -
 - 2.4.2 Option 2 - [Install a 4-in.-wide \(nominal\) roof deck flashing tape](#)^(3.4) over all roof sheathing panel seams and cover the deck with a #30 felt or an equivalent synthetic underlayment^(3.5). Note: [Attach underlayment](#) with button cap nails at 6 in. o.c. along the laps and 12 in. o.c. spacing, vertically and horizontally, between the laps. **Documentation:** Photograph (a) the tape installation and (b) the underlayment installation over the tape showing the button cap nail spacing^(3.6) (nails, not staples!).
-OR-
 - 2.4.3 Option 3 - [Install a two-layer #30 felt underlayment system](#)^(3.7). Installation instructions for a two-layer #30 felt underlayment system: Cut 17 in. off one side of the roll and install the remaining 19-in.-wide strip of underlayment. Tack in place. Install a 36-in.-wide roll of underlayment over the 19-in.-wide course of underlayment along the eave. Continue, overlapping the sheets 19 in. (leaving a 17-in. exposure). Attach underlayment with button cap nails at 6 in. o.c. along the laps and 12 in. o.c. spacing, vertically and horizontally, between the laps. **IMPORTANT NOTE: Synthetic underlayments do not qualify for this method.** **Documentation:** Photograph (a) laps and fasteners and (b) packaging label indicating ASTM designation of the underlayment.
- 2.5 [Install proper flashing](#) at all penetrations and roof/wall intersections, at valleys, at gables and at eaves.
- 2.6 Install [drip edge](#)^(3.8) over the underlayment at rakes and eaves and fasten at 12 in. o.c. staggered. **Documentation:** Photograph the drip edge fastening.



<https://vimeo.com/271121398>



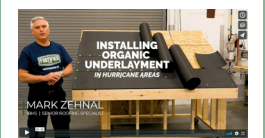
<https://vimeo.com/303543202>



<https://vimeo.com/271121653>



<https://vimeo.com/271121736>



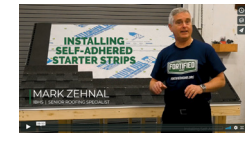
<https://vimeo.com/271121486>

See [FORTIFIED General Flashing Guidelines for Steep-Sloped Roofs](#) for more information.



<https://vimeo.com/271160569>

- 2.7 Asphalt shingles
 - 2.7.1 [Starter strips adhered at the eave and rake](#). Either embed the starter strip in roofing cement or use self-adhered starter strips. **Documentation:** [Photograph the starter strip installation](#).
 - 2.7.2 Asphalt shingles^(3.9) must be high-wind rated and be installed with six nails per high-wind installation instructions. **Documentation:** [Photograph the section of the shingle package that shows the wind rating](#).



<https://vimeo.com/271122173>



<https://vimeo.com/271122275>

NOTE: All other roof coverings (metal, tile, low-sloped roofs, wood shakes/shingles) must be rated and installed for the site-specific wind speed (minimum 140 mph V_{ult}) and design pressures.

IMPORTANT! After installation, the [Roofing Compliance Form](#) MUST be completed and provided to the FORTIFIED Evaluator.

3. Qualifying Products and Systems

- 3.1 For existing roof sheathing less than 7/16 in. over 24 in rafter spacing - remove existing sheathing and install 7/16 in. roof sheathing directly to rafters/trusses per Section 2.3 or, if the existing sheathing is in good condition, install 7/16 in. sheathing over the existing sheathing by attaching the 7/16 in. sheathing to the rafters/trusses below using 10d ring-shank nails (0.120 in.x 3.0 in.) at 6 in. o.c.; 4 in. o.c. at the gable ends.
- 3.2 8d ring-shank nails must be at least 0.113-in. diameter and 2-3/8-in. long.
- 3.3 Self-adhered membrane must meet ASTM D1970 requirements.
- 3.4 [Roof deck flashing](#) tape must be a 4-in.-wide (nominal) ASTM D1970 or an AAMA 711- 13, Level 3 compliant self-adhering flashing tape.
- 3.5 #30 felt or synthetic underlayment equivalent must be an ASTM D226 Type II or ASTM D4869 Type III or IV underlayment or a synthetic underlayment equivalent that has an ICC approval as ASTM D226 Type II and meets ASTM D4869 section 8.6 water shower test.
 - ASTM D6757 is an acceptable alternate underlayment in lieu of ASTM D226 Type II and ASTM D4869 Types III and IV for the following situations:
 - 2.4.2 Option 2 for asphalt shingles only
 - 2.4.3 Option 3 for asphalt shingles only
- 3.6 Button cap nails must be annular-ring or deformed-shank roofing fasteners with minimum 1-in.-diameter caps.
- 3.7 #30 felt must be an ASTM D226 Type II or ASTM D4869 Type III or IV organic felt underlayment (ASTM D6757 is an acceptable alternate as described in section 3.5). Synthetic underlayments are not allowed for the two-layer system. Installation instructions for a two-layer #30 felt underlayment system: Cut 17 in. off one side of the roll and install the remaining 19-in.-wide strip of underlayment. Tack in place. Install a 36-in.-wide roll of underlayment over the 19-in.-wide course of underlayment along the eave. Continue, overlapping the sheets 19-in. (leaving a 17-in. exposure).
- 3.8 Drip edge must extend ½ in. below sheathing and extend back on the roof a minimum of 2 in., overlap 3 in. at joints, meet code requirement for metal gauge, and be fastened at 12 in. o.c., staggered.
- 3.9 Asphalt shingles must have an ASTM D7158 Class H and/or ASTM D3161 Class F wind rating.

ADDITIONAL INFORMATION

[FORTIFIED Resources](#)
[Requirements for FORTIFIED Roof™ – New Roof designation](#)
[Inside FORTIFIED](#) - Instructional videos and one-pagers on re-roofing to FORTIFIED Roof standards.



FORTIFIEDHOME.ORG