



# RE-ROOFING CHECKLIST

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## HIGH WIND



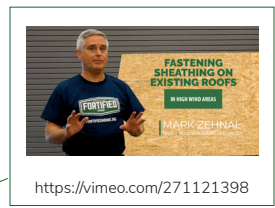
# FORTIFIED HOME™ – HIGH WIND RE-ROOFING CHECKLIST

## 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.<sup>(3.1)</sup> Retrofit solutions provided by a professional engineer may be considered.

## 2. Roofing Scope

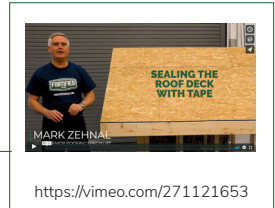
- 2.1 Is the home within 3,000 ft of salt or brackish water? **If yes**, hot-dip galvanized and/or stainless steel fasteners are required. See [Technical Bulletin FH 018-01](#) for more information.
- 2.2 Remove all existing roofing material. Replace any damaged wood.
- 2.3 [Re-nail the roof deck](#) with 8d ring-shank nails<sup>(3.2)</sup> 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](#)<sup>(3.3)</sup> 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](#)<sup>(3.4)</sup> over all roof sheathing panel seams and cover the deck with a #30 felt or an equivalent synthetic underlayment<sup>(3.5)</sup>. 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<sup>(3.6)</sup> (nails, not staples!).  
-OR-
  - 2.4.3 Option 3 - [Install a two-layer #30 felt underlayment system](#)<sup>(3.7)</sup>. 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](#)<sup>(3.8)</sup> over the underlayment at rakes and eaves and fasten at 12 in. o.c. staggered. **Documentation:** Photograph the drip edge fastening.



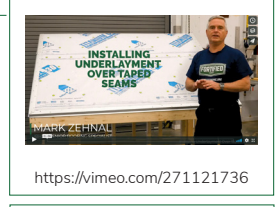
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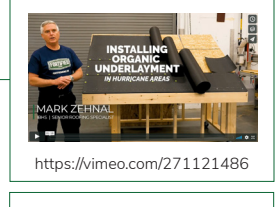
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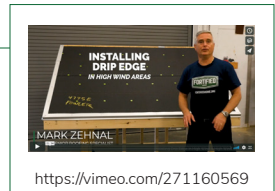


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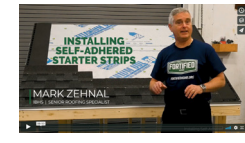
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See [FORTIFIED General Flashing Guidelines for Steep-Sloped Roofs](#) for more information.



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- 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<sup>(3.9)</sup> 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 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.
- 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 IV organic felt underlayment. 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.



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