









FORTIFIED Re-Roofing Checklist

✓		Reference
	1. Pre-Qualifications	
	1.1. $\frac{7}{16}$ in. minimum roof deck sheathing and 24 in. o.c. maximum rafter framing required. Roof decks with less than $\frac{7}{16}$ in. sheathing can be re-decked with $\frac{7}{16}$ 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 saltwater? <i>If yes, hot-dip galvanized and/or stainless steel fasteners are required.</i>	See Technical Bulletin FH 2018-01 for more information. http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-01-technical-bulletin-corrosion-resistant-fasteners.pdf
	2.2. Remove all existing roofing material. Replace any damaged wood.	
	2.3. <u>Re-nail the roof deck</u> with 8d ring-shank nails ^(3.2) at 6 in. o.c.; 4 in. o.c. at the gable ends. <i>Documentation: Photograph the fastener package and the spacing of the installed new fasteners in four locations, including at least one gable.</i>	 https://vimeo.com/271121168
	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. <i>Documentation: Photograph the installed self-adhered underlayment.</i> -OR-	
	2.4.2. Option 2 - <u>Install a 4-in.-wide (nominal) roof deck flashing tape</u> ^(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. <i>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!).</i> -OR-	 https://vimeo.com/271121653
	2.4.3. Option 3 - <u>Install a two-layer #30 felt underlayment system</u> ^(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 one row centered about 9 inches between the laps fastened with button cap nails at 12 in. o.c. IMPORTANT NOTE: Synthetic underlayments do not qualify for this method. <i>Documentation: Photograph (a) laps and fasteners and (b) packaging label indicating ASTM designation of the underlayment</i>	 https://vimeo.com/271121486
	2.5 <u>Install proper flashing</u> at all penetrations and roof/wall intersections, at valleys, at gables and at eaves.	See FORTIFIED General Flashing Guidelines for Steep-Sloped Roofs for more information. http://disastersafety.org/wp-content/uploads/2018/01/fortified_home_general_flashing_guidelines_for_steep-sloped_roofs.pdf
	2.6 Install <u>drip edge</u> ^(3.8) over the underlayment at rakes and eaves and fasten at 4 in. O.C. <i>Documentation: Photograph the drip edge fastening.</i>	 https://vimeo.com/271122117
	2.7 Asphalt shingles	

	<p>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. <i>Documentation: Photograph the starter strip installation.</i></p>	 <p>https://vimeo.com/271122173</p>
	<p>2.7.2 Asphalt shingles^(3,9) must be high-wind rated and be installed with six nails per high-wind installation instructions. <i>Documentation: Photograph the section of the shingle package that shows the wind rating.</i></p>	
<p>NOTE: All other roof coverings (metal, tile, low-sloped roofs, wood shakes/shingles) must be rated and installed for the site-specific wind speed and design pressures.</p>		
	<p>2.8 All ridge and off-ridge roof vents must be tested in accordance with TAS 100 (A) and/or have Miami-Dade County approval. <i>Documentation: Take photos of the vent packaging that shows the vent make and model.</i></p>	
	<p>2.9 Any gable end wall vents need to have temporary storm protection available. Note that the vent protection is temporary and must be available for installation in the event of a storm. <i>Documentation: Take photos that show the temporary storm protection in place. Remove the temporary protection when the storm passes.</i></p>	 <p>See page 24 in the Hurricane Standard for gable end vent protection. (https://disastersafety.org/wp-content/uploads/FORTIFIED-Home-Hurricane-Standards-2019.pdf)</p>
<p>IMPORTANT! After installation, the Roofing Compliance Form (https://disastersafety.org/wp-content/uploads/2018/08/FH_hurricane-Roofing-Compliance-Form.pdf) MUST be completed and provided to the FORTIFIED Evaluator.</p>		

	<h3>3 Qualifying Products and Systems</h3>	
	<p>3.1 For existing roof sheathing less than 7/16 in. - 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.</p>	
	<p>3.2 8d ring-shank nails must be at least 0.113-in. diameter and 2³/₈-in. long.</p>	
	<p>3.3 Self-adhered membrane must meet ASTM D1970 requirements.</p>	
	<p>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.</p>	<p>http://disastersafety.org/wp-content/uploads/2018/01/Choosing-the-Right-Tape_FINAL.pdf</p>
	<p>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 or ASTM D4869 Type IV.</p>	
	<p>3.6 Button cap nails must be annular-ring or deformed-shank roofing fasteners with minimum 1-in.-diameter caps.</p>	
	<p>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).</p>	
	<p>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 4 in. o.c., staggered.</p>	
	<p>3.9 Asphalt shingles must have an ASTM D7158 Class H and/or ASTM D3161 Class F wind rating.</p>	
	<h3>4 Additional Information</h3>	
	<p>4.1 FORTIFIED Resources</p>	<p>http://disastersafety.org/fortified/resources</p>
	<p>4.2 Requirements for FORTIFIED Roof™ – New Roof designation</p>	<p>https://disastersafety.org/wp-content/uploads/2019/03/FORTIFIED-Home-Hurricane-New-Roof-Requirements.pdf</p>
	<p>4.3 Inside FORTIFIED - Instructional videos and one-pagers on re-roofing to FORTIFIED Roof standards.</p>	<p>https://disastersafety.org/fortified/fortified-home-guidance-steep-slope-roofs</p>