



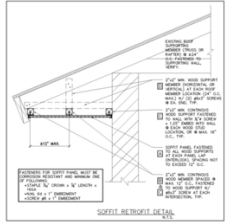





# FORTIFIED Re-Roofing Checklist

✓		Reference
	<b>1. Pre-Qualifications</b>	
	1.1. $\frac{7}{16}$ in. minimum roof deck sheathing and 24 in. o.c. maximum rafter framing required. Retrofit solutions provided by a professional engineer may be considered.	
	<b>2. Roofing Scope</b>	
	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 <a href="http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-01_technical-bulletin_corrosion-resistant-fasteners.pdf">Technical Bulletin FH 2018-01</a> for more information. <a href="http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-01_technical-bulletin_corrosion-resistant-fasteners.pdf">http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-01_technical-bulletin_corrosion-resistant-fasteners.pdf</a>
	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 <sup>(4.1)</sup> 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>	 <a href="https://vimeo.com/271121168">https://vimeo.com/271121168</a>
	2.4. Seal the roof deck (choose one of the following two options).	
	2.4.1. <b>Option 1</b> - Install a self-adhered (peel-and-stick) membrane <sup>(4.2)</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. <i>Documentation: Photograph the installed self-adhered underlayment.</i> <b>- OR -</b>	
	2.4.2. <b>Option 2</b> - <u>Install a 4-in.-wide (nominal) roof deck flashing tape</u> <sup>(4.3)</sup> over all roof sheathing panel seams and cover the deck with a #30 felt or an equivalent synthetic underlayment <sup>(4.4)</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. <i>Documentation: Photograph (a) the tape installation and (b) the underlayment installation over the tape showing the button cap nail spacing<sup>(4.5)</sup> (nails, not staples!).</i>	 <a href="https://vimeo.com/271121653">https://vimeo.com/271121653</a>
	2.5. <u>Install proper flashing</u> at all penetrations and roof/wall intersections, at valleys, at gables and at eaves.	See <a href="http://disastersafety.org/wp-content/uploads/2018/01/fortified_home_general_flashing_guidelines_for_steep-sloped_roofs.pdf">FORTIFIED General Flashing Guidelines for Steep-Sloped Roofs</a> for more information. <a href="http://disastersafety.org/wp-content/uploads/2018/01/fortified_home_general_flashing_guidelines_for_steep-sloped_roofs.pdf">http://disastersafety.org/wp-content/uploads/2018/01/fortified_home_general_flashing_guidelines_for_steep-sloped_roofs.pdf</a>
	2.6. Install <u>drip edge</u> <sup>(4.6)</sup> over the underlayment at rakes and eaves and fasten at 4 in. o.c. <i>Documentation: Photograph the drip edge fastening.</i>	 <a href="https://vimeo.com/271122117">https://vimeo.com/271122117</a>
	2.7. Asphalt shingles	
	2.7.1. <u>Starter strips adhered at the eave and rake</u> . Either embed the starter strip in roofing cement or use self-adhered starter strips. <i>Documentation: Photograph the starter strip installation.</i>	 <a href="https://vimeo.com/271122173">https://vimeo.com/271122173</a>
	2.7.2. Asphalt shingles <sup>(4.7)</sup> 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>	
	<b>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.</b>	
	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>	
	<b>IMPORTANT! After installation, the <a href="https://disastersafety.org/wp-content/uploads/2018/08/FH_hurricane-Roofing-Compliance-Form.pdf">Roofing Compliance Form</a> (https://disastersafety.org/wp-content/uploads/2018/08/FH_hurricane-Roofing-Compliance-Form.pdf) MUST be completed and provided to the FORTIFIED Evaluator.</b>	

3. Non-Roofing Scope	
<p><b>NOTE:</b> There are additional Bronze roof components that are not typically bid or managed by the roofing contractor that must be evaluated by a FORTIFIED Evaluator to qualify for consideration of a FORTIFIED Home Bronze designation. They are:</p>	
<p>3.1. Soffit condition and attachment.</p> <p>If the soffits are vinyl or aluminum only and greater than 12 in., they need additional support. Wood or fiber-cement soffits don't require any additional soffit retrofit.</p>	 <p>See pages 20-22 in the <a href="https://disastersafety.org/wp-content/uploads/FORTIFIED-Home-Hurricane-Standards-2012.pdf">Hurricane Standard</a> for soffit retrofit. (<a href="https://disastersafety.org/wp-content/uploads/FORTIFIED-Home-Hurricane-Standards-2012.pdf">https://disastersafety.org/wp-content/uploads/FORTIFIED-Home-Hurricane-Standards-2012.pdf</a>)</p>
<p>3.2. Gable ends.</p> <p>3.2.1. The vertical face of gable ends needs to be sheathed with structural wood sheathing (typically plywood, OSB) or have wood siding.</p>	
<p>3.2.2. Any gable end wall vents need to have temporary storm protection available.</p>	 <p>See page 24 in the <a href="https://disastersafety.org/wp-content/uploads/FORTIFIED-Home-Hurricane-Standards-2012.pdf">Hurricane Standard</a> for gable end vent protection. (<a href="https://disastersafety.org/wp-content/uploads/FORTIFIED-Home-Hurricane-Standards-2012.pdf">https://disastersafety.org/wp-content/uploads/FORTIFIED-Home-Hurricane-Standards-2012.pdf</a>)</p>
<p>3.2.3. Gable end overhang framing should be limited to 18 in.</p>	<p>See <a href="http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-02_technical-bulletin_gable-end-roof-sheathing-fastening-requirements.pdf">Technical Bulletin FH 2018-02</a> for more information. (<a href="http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-02_technical-bulletin_gable-end-roof-sheathing-fastening-requirements.pdf">http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-02_technical-bulletin_gable-end-roof-sheathing-fastening-requirements.pdf</a>)</p>
4. Qualifying Products and Systems	
<p>4.1. 8d ring shank nails must be at least 0.113-in. diameter and 2¾-in. long.</p>	
<p>4.2. Self-adhered membrane must meet ASTM D1970 requirements.</p>	
<p>4.3. <a href="#">Roof deck flashing</a> tape must be a 4-in.-wide (nominal) ASTM D1970 or an AAMA 711-13, Level 3 compliant self-adhering flashing tape.</p>	<p><a href="http://disastersafety.org/wp-content/uploads/2018/01/Choosing-the-Right-Tape_FINAL.pdf">http://disastersafety.org/wp-content/uploads/2018/01/Choosing-the-Right-Tape_FINAL.pdf</a></p>
<p>4.4. #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>4.5. Button cap nails must be annular ring or deformed shank roofing fasteners with minimum 1-in.-diameter caps.</p>	
<p>4.6. 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>4.7. Asphalt shingles must have an ASTM D7158 Class H and/or ASTM D3161 Class F wind rating.</p>	
5. Additional Information	
<p>5.1. <a href="#">FORTIFIED Resources</a></p>	<p><a href="http://disastersafety.org/fortified/resources">http://disastersafety.org/fortified/resources</a></p>
<p>5.2. <a href="#">FORTIFIED Home–Hurricane Bronze–New Roof Requirements</a></p>	<p><a href="http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-02_technical-bulletin_gable-end-roof-sheathing-fastening-requirements.pdf">http://disastersafety.org/wp-content/uploads/2018/04/FH-2018-02_technical-bulletin_gable-end-roof-sheathing-fastening-requirements.pdf</a></p>
<p>5.3. <a href="#">Inside FORTIFIED</a> - Instructional videos and one-pagers on FORTIFIED Bronze Re-Roofing</p>	<p><a href="https://disastersafety.org/fortified/fortified-home-guidance-steep-slope-roofs">https://disastersafety.org/fortified/fortified-home-guidance-steep-slope-roofs</a></p>