RE-ROOFING CHECKLIST

This checklist will familiarize you with the specific requirements of FORTIFIED Roof, a a voluntary, science-backed resilient construction and re-roofing standard.

FOR USE WITH THE 2025 FORTIFIED HOME STANDARD

Version 2024.1

FORTIFIED Home™

RE-ROOFING CHECKLIST

1. Pre-Qualifications

1.1 Engage a certified FORTIFIED evaluator. If you are seeking a FORTIFIED designation certificate, which is generally required for insurance discounts and/or tax incentives, you must work with an evaluator. This independent third-party inspector will verify that the requirements of this checklist have been met and will submit the required documentation to IBHS.

⚠ **Refer to the Evaluator Checklist for a complete list of the Documentation Requirements**

1.2 When re-roofing over existing roof deck, 7/16 in. minimum deck thickness and a maximum rafter spacing of 24 in. o.c. is required. Existing roof decks with less than minimum thickness can be re-decked[3.1]. Retrofit solutions provided by a professional engineer may be considered.

1.3 If roof mounted structures, equipment or accessories, such as roof-mounted decks or HVAC units, leaf guards or rain diverters are present, refer to section 2.7 of the *2025 FORTIFIED Home Standard* and the appropriate technical bulletin.

2. Roofing Scope

2.1 Is the home within 3,000 ft of a saltwater shoreline? If yes, hot-dip galvanized and/or stainless steel fasteners are required. Refer to section 2.2 of the *2025 FORTIFIED Home Standard* and F-G-1 for more information.

2.2 Remove all existing roofing material. Replace any damaged wood.

2.3 Nail the roof deck with 8d ring-shank nails[3.2] at 4 in. o.c. per F-RR-3.

2.4 Seal the roof deck (choose one of the following three options).

2.4.1 F-SRD-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[3.6] at 6 in. o.c. along the laps and 12 in. o.c. spacing, vertically and horizontally, between the laps.

⚠ **If the underlayment comes in rolls larger than 36", additional nails will be required. Refer to F-SRD-2A for rolls of 40" and 42". Refer to F-SRD-2B for rolls of 48". Refer to F-SRD-2C for rolls of 60".**

2.4.2 F-SRD-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[3.6] at 6 in. o.c. along the laps and 12 in. o.c. spacing, vertically and horizontally, between the laps.

⚠ **For synthetic underlayment and rolls larger than 36", required cuts and overlaps will differ. Refer to F-SRD-7 for rolls of 40" and 48". Refer to F-SRD-8 for rolls of 60".**

2.4.3 F-SRD-4 - 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.

2.5 Install proper flashing at all penetrations and roof/wall intersections, at valleys, at gables and at eaves. For more information refer to *FORTIFIED General Flashing Guidelines for Steep Sloped Roofs.*

2.6 Install drip edge[3.8] over the underlayment at rakes and eaves and fasten at 4 in. o.c. staggered per F-DE-1.

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 per F-RC-1, F-RC-2, F-RC-3.

2.7.2 Asphalt shingles[3.9] must be ASTM D3161 (Class F) or ASTM D7158 (Class H) rated and be installed with six nails per high-wind installation instructions.

2.7.3 **FOR OPTIONAL HAIL SUPPLEMENT ONLY:** Asphalt shingles must be ranked Good or Excellent in IBHS's Hail Impact Standard Ratings[3.10]

2.8 All other roof coverings (metal, tile, low-sloped roofs, wood shakes/ shingles)

2.8.1 Must be rated and installed for the site-specific wind speed and design pressures corresponding to V_{ult}=130 mph with Exposure C minimum.

2.8.2 **FOR OPTIONAL HAIL SUPPLEMENT ONLY:** All other roof covering must meet impact resistance requirements described in section 7.2 and 7.3 of the *2025 FORTIFIED Home Standard* [3.10]

2.9 All ridge and off-ridge roof vents must be tested in accordance with TAS 100 (A).

2.10 **FOR HURRICANE DESIGNATIONS ONLY:** 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.

IMPORTANT! After installation, Roofing Compliance Forms (RCF) MUST be completed. The FORTIFIED Evaluator will provide the appropriate RCFs, which the roofing contractor must complete and sign.

3. Qualifying Products and Systems

3.1 If the existing roof sheathing is less than minimum thickness required over 24 in. rafter spacing, there are two options:

3.1.1 Remove existing sheathing and install new roof sheathing meeting minimum thickness requirements directly to rafters/trusses, nailing the roof deck with 8d ring-shank nails[3.2] at 4 in. o.c. per F-RS-2. Nails must be long enough to penetrate 1-5/8" minimum into truss/rafter.

3.1.2 If the existing sheathing is in good condition, install new roof sheathing meeting minimum thickness requirements over the existing sheathing by attaching to the rafters/ trusses below, nailing at 4 in. o.c. using ring shank nails long enough to penetrate 1-5/8 in. into the rafters/trusses (typically 10d ring-shank nails (0.120 in. x 3.0 in.)).

3.2 8d ring-shank nails must be at least 0.113-in. diameter and 2-3/8-in. long. Nails must be long enough to penetrate 1-5/8" minimum into truss/rafter.

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 3-3/4- in. wide AAMA 711, 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 #30 and ASTM D4869 Types III and IV #30 for the following situations:
  - F-SRD-2 for asphalt shingles only
  - F-SRD-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 Synthetic underlayment must be ASTM D8257. (Alt: Reinforced synthetic roof underlayment with ICC 188 approval as ASTM D226 Type II with minimum tear strength = 15 lbf per ASTM D4533, minimum tensile strength = 20 psf per ASTM D5035, and passes ASTM D4869 shower test)

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.

3.8.1 Fasteners shall be galvanized steel, stainless steel, aluminum or copper roofing nails. Minimum 12-guage [0.105 in. (3mm)] Shank must have a minimum 3/8-in. (9.5mm) diameter head, complying with ASTM F1667 as specified in section R905.2.5 of the 2024 IRC.

✘ **Cap nails and staples are not allowed.**

3.9 Asphalt shingles must have an ASTM D7158 Class H and/or ASTM D3161 Class F wind rating.

3.10 **FOR OPTIONAL HAIL SUPPLEMENT ONLY:** Roof coverings must be rated as Impact Resistant:

- Asphalt shingles must be ranked Good or Excellent in IBHS's Hail Impact Standard Ratings.
- Metal roof panels must be rated UL 2218 Class 4 3.10.3 Roof tiles must FM 4473 Class 4
- Low slope roofing must be rated either UL 2218 Class 4 or FM 4470 with a Class 1-SH or 1-VSH

3.11 **FOR OPTIONAL HAIL SUPPLEMENT ONLY:** Roof accessories must be rated as Impact Resistant.

- Skylights must meet one of the following ratings
  - ASTM E1886 cyclic pressure test requirements and be ASTM E1996 missile impacted rated "B," "C," "D," or "E"
  - FM Approved per ANSI/FM 4431 with Severe Hail Rating • Miami-Dade County Approved (MDCA) with current Notice of Acceptance
- Solar Panels must meet one of the following ratings
  - Flexible PV modules must be FM Approved for hail or meet FM 4476 that includes a
  - Severe Hail rating
  - Rigid PV modules that are FM Approved for hail or meet FM 4478 that includes a Class 4 rating
  - Rigid modules that meet UL 1703 Standards for Flat-Plate Photovoltaic Modules and Panels