

2025 STANDARD



SUMMARY OF CHANGES



This document highlights updates and changes from
the 2020 FORTIFIED Home™ Standard

2025 FORTIFIED Home™ Standard

Summary of Changes

Introduction

The FORTIFIED Home Standard is updated periodically to integrate the latest research conducted by the Insurance Institute for Business & Home Safety (IBHS) and other industry experts, such as the American Society of Civil Engineers. This helps to ensure FORTIFIED stays on the leading edge, making the best mitigation strategies available to property owners and contractors across the country.

This document is intended to provide an overview of changes to the FORTIFIED Home standard implemented with the most recent scheduled update. **Providers are strongly encouraged to carefully review the [2025 FORTIFIED Home Standard](#) to more fully understand all updates.**

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Overall Updates:

- Incorporated ASCE 7-22 and remove references to V_{asd} and ASCE 7-05
- All references to other codes and standards updated to current versions
- At the Roof level, High Wind Requirements have been aligned with Hurricane Requirements. The exception is gable end vent requirements remain applicable for Hurricane designations only.
- Technical Bulletins and Standard Details issued since release of *2020 FORTIFIED Home Standard* have been incorporated
- Clarifications to existing requirements have been incorporated
- Standard Details have been updated
- All components of a FORTIFIED Roof must be installed by a qualified FORTIFIED Wise Roofing Contractor or Company with an active listing in the FORTIFIED Directory
- Minimum required roof sheathing thickness has been updated to 7/16"
- For re-roofing previously documented FORTIFIED Homes with wood structural panel roof deck and site conditions of design wind speed $V_{ult} = 160$ mph or less and Exposure C or less, re-nailing the roof deck is no longer required.
- For tile roof covers, references to FRSA/TRI Florida High Wind Tile Installation Manual have been replaced with reference to roof tile manufacturer's installation information and the tested assembly shown in the product approval.
- Dog doors up to 3 square feet installed in exterior walls (not in window or door assemblies) are now exempt from impact rating and design pressure rating requirements for Silver and Gold levels.
- For the Hail Supplement, asphalt shingle roof covers must have an IBHS Roof Shingle Hail Impact Rating of "Excellent" or "Good" to be eligible. UL and FM ratings will no longer qualify for asphalt shingles.
- Appendix A updated to include more program information and tools
- Appendix B1 safety factors updated

New Sections:

- **Added** Section 1.4 IBHS Contact Information and Technical Resources
- **Added** Section 2.6 Definition of Roof Areas for FORTIFIED Roof Designation
 - *Incorporates Technical Bulletin FH 2022-02*
- **Added** Section 2.7 Roof Accessories and Equipment
 - *Incorporates guidance on roof-mounted equipment/structures and other rooftop accessories*
- **Added** Section 2.14 FORTIFIED Provider Requirements
 - *Incorporates information regarding FORTIFIED Home Evaluator and FORTIFIED Roofing Contractor requirements*
- **Added** Section 4.4.1.2.2 Method 2B: F-SRD-7 and F-SRD-8 "Sealed Roof Deck – Two Layers Synthetic Underlayment – Shingle or Metal Roof Covers, Steep Slope"
 - *Incorporates 2-ply synthetic underlayment sealed roof deck material and installation guidance as outlined in Technical Bulletin FH 2023-06*

Removed Sections:

- **Removed** 2020 Standard Section 2.10 Ultimate vs. Nominal Wind Speed (V_{ult} vs. V_{asd})

Technical Updates by Section:

1. Program Overview

Section 1.1 Designations

- **Added:** To be FORTIFIED compliant, “construction and installation of the required components is completed by an authorized contractor.”
- **Added:** New Roof designations require “roof sheathing is new or in good condition” and “A new roof designation is only valid for the first 5 years after roof installation.”

Roof Category

- **Added** to *New Roof*: “A new roof designation is only valid for the first 5 years after roof installation on a re-roof or the first five years after a certificate of occupancy is issued on new construction. Complete evaluation files must be submitted to IBHS for designation within one year of completion to be eligible for a New Roof designation.”
- **Removed** from *Existing Roof*: “Similarly, newly installed roofs where the roof sheathing, sealed roof deck, and/or roof cover installation or wind rating cannot be verified are only eligible for an Existing Roof designation.”

Section 1.2 Designation Term Limit and Re-designations

- **Added:** Incorporated Technical Bulletin FH 2023-10 which provides additional information about on-time, early and late redesignations.

2. Eligibility and Minimum Requirements for All Designations

Section 2.2 Qualifying Dwelling Types

- **Added:** For all structures it is important to determine whether the building falls under the FORTIFIED Home or FORTIFIED Commercial/Multifamily programs. If the building is designed with IRC and/or has residential insurance, it may qualify for the FORTIFIED Home program. If the building is built under the IBC and/or is commercially insured, it may qualify for the FORTIFIED Commercial/Multifamily program. Note that residential structures that are either used for or converted into businesses fall under the FORTIFIED Commercial™ program and are NOT applicable for a FORTIFIED Home designation.
- **Changed** for HUD Manufactured homes: a single-family residential home manufactured to HUD's Zone II or Zone III Manufactured Home Construction and Safety Standards adopted after July 1994 is eligible for a FORTIFIED Roof level designation only. Manufactured homes are not eligible for FORTIFIED Silver or Gold Designations. Homes sited in a Zone I location must be manufactured to Zone II requirements, and homes sited in a Zone II or III location must be manufactured to Zone III requirements. The home must be sited on and properly attached to a permanent foundation (see foundation requirements in Section 2.3). HUD manufactured homes built before July 1994 and Zone I homes built after July 1994 are NOT eligible for a FORTIFIED designation. For additional guidance on manufactured homes see [Technical Bulletin FH2023-08](#).

Section 2.3 Ineligible Foundation Types

- **Changed** to incorporate Technical Bulletin FH 2022-06: Homes on a foundation constructed of unrestrained stacked masonry or stone (a dry-stack foundation) are NOT eligible for any FORTIFIED designation without approved retrofit of the foundation. For homes with a crawl space, all perimeter piers and supporting walls must be photo documented to confirm that they are not dry stacked. The use of shims between the foundation and main structure of the house will be considered dry stack and make the home ineligible for any FORTIFIED designation.

- **NOTE:** By following a professional engineering plan, it may be possible to retrofit the foundations above to become eligible for a FORTIFIED designation. Retrofitted foundations must meet the requirements of qualifying foundation types for the FORTIFIED designation level being sought.

Section 2.4 Qualifying Foundation Types

- **Changed** reinforced foundation to permanent foundation
- **Changed:** Under Elevated-floor home-to-foundation connections, added: The requirement for positive attachment to the foundation is not required for FORTIFIED Roof eligibility however, shims between the foundation and main structure of the house will be considered dry stack and make the home ineligible.

Section 2.5 Qualifying Roof Structural Members

- **Added** highlighted phrase: FORTIFIED Home specifications are applicable for wood framed roof structural members (i.e., wood trusses or rafters) with minimum 2 in. nominal thickness (1½ in. actual thickness), spaced at 24 in. O.C. maximum with wood structural panel sheathing (i.e., plywood or OSB) or wood board decking with gaps 1/8 in or less between boards.

Added Section 2.6 Definition of Roof Areas for FORTIFIED Roof Designation

- **Added:** Entire section added to incorporate Technical Bulletin FH 2022-02

Added Section 2.7 Roof Accessories and Equipment

- **Added:** Entire section added to incorporate guidance on roof-mounted equipment/structures and other rooftop accessories

Section 2.8 Qualifying Ring Shank Nails

- **Added:** Note: minimum 1-5/8-in. penetration of nail into main member (truss/rafter) is required, therefore, depending on sheathing thickness, nails longer than 2 3/8-in may be required.

Section 2.9 Acceptable Impact Ratings for Openings and Opening Covers

- **Added:** For garage doors, ANSI/DASMA 115 is acceptable

Section 2.10 .2 Acceptable Design Pressure (DP) Ratings for Openings

- **Added:** For garage doors – ANSI/DASMA 115 for doors with glazing

Section 2.11 Referenced Codes and Standards

- **Added:** IRC 2024 → ASCE 7-22

Removed Section:

- **Removed:** 2020 Standard Section 2.10 Ultimate vs. Nominal Wind Speed (V_{ult} vs. V_{asd})

Section 2.13 Documentation Requirements

- **Added: ALL PHOTO DOCUMENTATION MUST BE SITE SPECIFIC**

Added Section 2.14 Provider Requirements

- **Added:** Entire section to incorporate information regarding FORTIFIED Home Evaluator and FORTIFIED Roofing Contractor requirements

Added Section 2.16 Appropriate Use of FORTIFIED

- **Added:** It is the responsibility of the building designer and contractor to ensure local regulations and building codes are properly accounted for and recognize that many requirements fall outside of the scope of FORTIFIED.

3. Designation Requirements for FORTIFIED Roof – Existing Roof

- **Changed:** Designation Requirements for FORTIFIED Roof – Existing Roof
Formerly: Similarly, newly installed roofs where the roof sheathing, sealed roof deck, and/or roof cover installation or wind rating cannot be verified are only eligible for an Existing Roof designation.
- *Now:* Existing roof shall not be used as a pathway for inadequate documentation of a newly installed roof or to allow materials that cannot be documented to meet the requirements of the standard such as reuse of existing metal or tile roof cover. There are some documented cases where a FORTIFIED Roof – Existing Roof designation may be awarded in lieu of a FORTIFIED Roof – New Roof designation. These instances are clearly defined in technical bulletins at fortifiedhome.org.

Section 3.1 Roof Deck and Roof Cover

- **Changed: Wood Structural Panel Roof Sheathing** must meet the following minimum requirements:
 - 7/16” Minimal Nominal Thickness (Performance Category)

Rafter Spacing	Nominal Thickness ¹	Minimum Actual Thickness	Maximum Actual Thickness
24” o.c. Max	7/16 Performance Category ²	0.406 inches	0.469 inches
NOTES: 1. For other panel thickness, see Table 1 in the US Voluntary Product Standard PS2, Performance Standard for Wood Structural Panels 2. 7/16 Performance Category sheathing is based on the 2024 Wood Framed Construction Manual and the FORTIFIED Minimum wind speed of $V_{ult}=130\text{mph}$ and Exposure C.			

- **NOTE:** Wood Structural Panels are required to be manufactured to performance standards detailed by the US Department of Commerce as defined in Section 803.2 of the 2024 IRC. These standards require panels being labeled with both a nominal and actual thickness. The Performance Category (or nominal thickness) is shown as a fraction and the minimum (or actual) thickness in decimal format. For the purposes of FORTIFIED, the Performance Category is the number that should be documented. For more information see [APA Technical Topic TT-054: Panel Thickness Tolerances and Labeling](#).

Section 3.2 Sealing and Strengthening of the Roof Deck

- **Added:** The use of closed-cell polyurethane foam adhesive with wood board roof decking is not permitted.
- **Changed:** Under Closed Cell Foam – The highlighted requirement is now applicable for both Hurricane and High Wind designations (previously only Hurricane): Spray adhesive application shall comply with the manufacturer’s installation requirements and the density shall not be less than that required by the manufacturer to meet a **minimum design uplift pressure on the sheathing of 110 psf**.

Section 3.3 Attic Vents and Covers

- **Changed:** TAS 100(A) Ridge and Off-Ridge vent requirements now apply to High Wind as well as Hurricane. (Gable end vent cover requirements still apply to Hurricane only.)
- **Added:** If TAS 100(A) rating of existing vent cannot be verified, then new vents complying with TAS 100(A) must be installed.

Section 3.4 Photovoltaic (PV) Systems

- **Added:** Roof mounted PV systems shall be designed to structurally support the system and withstand applicable gravity and wind loads. The system must be permanently anchored to the roof structure. Ballasted systems are not eligible for a FORTIFIED Designation.

- **Changed:** Letter of compliance required from professional engineer indicating that connections and installation of the PV system meet the design intent, and that system has been appropriately designed for the following:
 - Roof-mounted PV systems shall be designed for component & cladding wind loads for the site in accordance with:
 - ASCE 7-16 or ASCE 7-22 using an effective area based on the dimensions of a single unit frame.
 - The roof deck and supporting structure must be designed to support all gravity and wind loads resulting from the PV system installation.
 - In the case of a roof-mounted PV system that attaches only to the roof cover (such as metal roof cover panels), in addition to the design of the PV system itself, the engineer’s analysis and letter of compliance must confirm that the full design and load path from the PV system to the roof cover and from the roof cover to the roof structure is adequate to resist site design component & cladding wind loads. This includes confirming that the roof cover system was tested to resist the additional loads imposed from the PV system and that the attachment of the roof cover system to the roof structure is adequate to resist the loads imposed from the PV system.

NOTE: Drawings from PV manufacturer typically do not meet this requirement and site specific letter of compliance from professional engineer as described above is required.
- **Added:** Coordination between the solar contractor and roofing contractor is required to ensure proper design, installation, and flashing including material compatibility.

4. Designation Requirements for FORTIFIED Roof – New Roof

- **Added:** Homes must be submitted for designation within one year of completion to be eligible for a New Roof designation. A new roof designation is only valid for the first 5 years after roof installation.

Section 4.1 Roof Deck Thickness Requirements

- **Changed:** Wood Structural Panel Roof Sheathing must meet the following minimum requirements:
 - 7/16” Minimal Nominal Thickness (Performance Category)

Rafter Spacing	Nominal Thickness ¹	Minimum Actual Thickness	Maximum Actual Thickness
24” o.c. Max	7/16 Performance Category ²	0.406 inches	0.469 inches
<p>NOTES:</p> <p>3. For other panel thickness, see Table 1 in the US Voluntary Product Standard PS2, Performance Standard for Wood Structural Panels</p> <p>4. 7/16 Performance Category sheathing is based on the 2024 Wood Framed Construction Manual and the FORTIFIED Minimum wind speed of $V_{ult}=130\text{mph}$ and Exposure C.</p>			

- **EXCEPTION:** for clay or concrete tile roofs, roof sheathing may have minimum thickness requirements greater than FORTIFIED. Verify the required thickness per the product approval and manufacturers installation instructions. For metal roof covers, verify manufacturer’s sheathing thickness requirements are met.
- **NOTE:** Local building code requirements for roof sheathing thickness may be more stringent based on-site conditions.
- **NOTE:** Wood Structural Panels are required to be manufactured to performance standards detailed by the US Department of Commerce as defined in Section 803.2 of the 2024 IRC. These standards require panels being labeled with both a nominal and actual thickness. The Performance Category (or nominal thickness) is shown as a fraction and the minimum (or actual) thickness in decimal format. For the purposes of FORTIFIED, the Performance Category is the number that should be documented. For more information see [APA Technical Topic TT-054: Panel Thickness Tolerances and Labeling](#).

- **Changed:** Sawn lumber or wood board roof sheathing members must have 5/8 inch minimum thickness with gaps less than or equal to 1/8 inch between boards. For decking with gaps greater than 1/8 inch see FORTIFIED Standard Detail [F-RR-5](#) “Fastening Wood Structural Panel Roof Sheathing over Existing 1x Roof Deck Board with Gaps”
 - **EXCEPTION:** If roof cover manufacturer has specific guidance that allows for gaps greater than 1/8 inch, then up to 1/4 inch maximum gaps between boards are allowed in compliance with manufacturer guidance. In any case where gaps between boards exceed 1/4 inch, wood structural panel overlay is required. See [Technical Bulletin 2023-07](#) for additional information.

Section 4.2.1 Attachment of New Wood Board Roof Sheathing

- **Added:** Attachment of wood structural panel overlay over sawn lumber or wood board roof decking to structural members shall be per FORTIFIED Standard Detail [F-RR-5](#) “Fastening Wood Structural Panel Roof Sheathing over Existing 1x Roof Deck Board with Gaps Over 1/8 Inch” or in compliance with a professional engineer’s design per Section 2.5 and Appendix B1. See [Technical Bulletin 2023-07](#) for additional information.

Section 4.2.2 Attachment of New Wood Structural Panel Roof Sheathing (Plywood or OSB)

- **Added:** Attachment of structural wood panel roof sheathing to roof structural members shall be minimum RRS-01; 0.113” dia. x 2-3/8” Roof Sheathing Ring Shank Nail at 4” o.c. spacing maximum in all areas of the roof. See [F-RS-2](#) for more information. Note: Longer nails may be needed for thicker sheathing. Nail must be long enough to penetrate a minimum 1-5/8” into truss/rafter.
- **Removed:** F-RS-3 guidance for High Wind. High Wind and Hurricane requirements for attachment of wood structural panel roof sheathing are now the same.

Section 4.3 Inspection and Attachment of Existing Roof Deck

- **Changed:** For existing sawn lumber or wood board roof decking, fasteners are required to meet the requirements of FORTIFIED Standard Detail F-RS-1 “Roof Deck Attachment – Sawn Lumber or Wood Board Roof Deck With No Gaps” (refer to Appendix A):
- Existing fasteners must be documented to meet Table F-RS-1 or boards must be re-nailed per Table F-RS-1.
- **Added:** For existing wood structural panel overlay over sawn lumber or wood board roof decking, attachment to structural members must be documented to meet, or re-nailed to meet FORTIFIED Standard Detail [F-RR-5](#) “Fastening Wood Structural Panel Roof Sheathing over Existing 1x Roof Deck Board with Gaps Over 1/8 Inch”. See [Technical Bulletin 2023-07](#) for additional information.
- **Added:** For existing wood structural panel roof sheathing, re-nail the roof deck with additional 0.113-in. x 2³/₈-in. 8d ring-shank nails (refer to Section 2.8) minimum, installed at 4 in. O.C. in accordance with FORTIFIED Standard Detail [F-RR-3](#) “Re-nailing the Roof Deck (Wood Structural Panels)”:
 - NOTE: Longer nails may be needed for thicker sheathing. Nails must be long enough to penetrate a minimum 1-5/8” into truss/rafter.
 - Spacing between new and existing nails shall not be less than 2 in. O.C. If supplemental fastening would cause a nail spacing of less than 2” o.c., then FORTIFIED Standard Detail F-RR-3 is not allowed. A professional engineer must be consulted to review existing conditions and design the roof deck attachment per Section 2.5 and Appendix B.1.
 - To avoid wood splitting, stagger nails for spacings 3 in. O.C. or less.
 - **EXCEPTIONS:**
 - If it can be documented that the home has previously received a FORTIFIED designation and the site has a design wind speed of Vult = 160 mph or less and Exposure C or less, then supplemental fastening is not required.
 - If it can be documented that existing nailing meets the requirements of Table F-RS-2 (refer to Section 4.2.2), then supplemental fastening is not required.

- **Removed:** F-RR-4 guidance for High Wind. High Wind and Hurricane requirements for re-nailing wood structural panel roof deck are now the same.
- **Added:** In lieu of FORTIFIED prescriptive re-nailing requirements, re-nailing may be installed in compliance with a professional engineer's design per Section 2.5 and Appendix B1.

Section 4.4.1.1 Method 1: F-SRD-2 “Sealed Roof Deck – Flashing Tape and Underlayment – Shingle or Metal Roof Covers – Steep Slope”

- **Changed:** Metal caps and nail or metal cap-nails are required for ultimate design wind speed of 170 mph or greater
- **Added:** The number of rows of cap nails required for mechanically attaching underlayment is determined by the width of the roll being used. For 36-inch rolls as shown in [F-SRD-2](#), two rows of cap nails between laps are required to meet the 12” spacing requirement. For roll widths greater than 36 inches additional rows of fasteners are required. Refer to the following companion details for guidance fastening rolls of underlayment greater than 36”:
 - Refer to [F-SRD-2A](#) for 40 to 42-inch wide synthetic underlayment rolls
 - Refer to [F-SRD-2B](#) for 48-inch wide synthetic underlayment rolls
 - Refer to [F-SRD-2C](#) for 60-inch wide synthetic underlayment rolls

Section 4.4.1.2.1 Method 2A: F-SRD-3 “Sealed Roof Deck – Two Layers Felt Underlayment – Shingle or Metal Roof Covers, Steep Slope”

- **Changed:** Metal caps and nail or metal cap-nails are required for ultimate design wind speed of 170 mph or greater

Section 4.4.1.2.2 Method 2B: F-SRD-7 and F-SRD-8 “Sealed Roof Deck – Two Layers Synthetic Underlayment – Shingle or Metal Roof Covers, Steep Slope”

- **Added:** Entire section to incorporate 2-ply synthetic underlayment sealed roof deck material and installation guidance as outlined in Technical Bulletin FH 2023-06

Section 4.4.1.3 Method 3: F-SRD-4 “Sealed Roof Deck – Self-Adhered Membrane (Showing Bond Break for Asphalt Shingles) – Shingle and Metal Roof Covers – Steep Slope”

- **Added:** For wood shake/shingle roof covers, self-adhered underlayment may not be permitted. Refer to roof cover manufacturer requirements and Technical Bulletin FH 2021-03 for additional information.

Section 4.4.2.1 Method 4: F-SRD-5 “Sealed Roof Deck – Flashing Tape, Underlayment and Roof Tile Cap Sheet – Concrete and Clay Tile Roof Covers, Steep Slope”

- **Changed:** Metal caps and nail or metal cap-nails are required for ultimate design wind speed of 170 mph or greater

Section 4.5 Drip Edge (roof slopes 2:12 or greater)

- **Removed:** F-DE-3 guidance for High Wind. High Wind and Hurricane requirements for drip edge installation are now the same.
- **Added:** EXCEPTION: Self-adhered membrane may be installed over the drip edge at eaves provided the top surface of the drip edge is clean, free of oil, and primed with ASTM D41 primer.
- **Added:** Fasteners shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12-gage [0.105 inch (3 mm)] shank with a minimum 3/8-inch-diameter (9.5 mm) head, complying with ASTM F1667 as specified in Section R905.2.5 of the 2024 IRC. Cap nails and staples are not allowed.

Section 4.9 Attic Vents and Covers

- **Changed:** TAS 100(A) Ridge and Off-Ridge vent requirements now apply to High Wind as well as Hurricane. (Gable end vent cover requirements still apply to Hurricane only.)

Section 4.10 Photovoltaic (PV) Systems

- **Changed:** (See Section 3.4 above for changes)

5. Designation Requirements for FORTIFIED Silver

Sections 5.2 (Windows and Skylights) and 5.3 (Entry Doors)

- **Added:** EXCEPTION: Dog doors up to 3ft² installed in exterior walls are exempt from impact-rating requirements. However, dog doors located in entry doors must either be included in the tested assembly for impact-rating of the door assembly as defined in Option 1 above or protected by an impact-rated opening protection system as defined in Option 2 above.

Section 5.5.2 Gable End Wall Framing and Bracing

- **Added:** For Option 2: For New Construction: 2024 Wood Frame Construction Manual and Appendix F of the 2025 FORTIFIED Home Standard: May be used for wind speeds less than $V_{ult}=130$ mph with gables that do not exceed 10' height at peak. Gable end studs must be located at 16"o.c. maximum. Additional details on gable end bracing can be found in Sections 3 and 10 in Appendix F.

Section 5.5.4 Vented Gable End Rake Soffits

- **Added:** For Hurricane designation only, vented gable end soffits are not permitted. For existing homes, a builder/contractor or other design professional should be consulted to determine if gable end rake soffits are required to be vented to comply with attic ventilation requirements. If gable end rake soffits are required to be vented, then the home is not eligible for a Silver designation.

Section 5.7 Chimneys

- **Added: Highlighted portion:** All chimneys, regardless of material, type, or location on the home, must be adequately anchored to the structure to resist loads based on site design wind speed and exposure category. Certification from a professional engineer (refer to Appendix D for definition) is required for new construction and for existing construction. Professional engineer shall provide detailing similar to FORTIFIED Standard Detail [F-CTD-1](#) "Chimney Tie-Down Detail" (refer to Appendix A) or signed and sealed letter of compliance for an existing chimney including the following as applicable:

Section 5.8 Attached Structures

- **Changed:** EXCEPTION: [The FORTIFIED Porch/Carport Calculator](#) provides guidance on connector selection for roof to beam, beam to column, and column to foundation connections for wood framed attached structures that fall within the limitations below. This calculator can be used for the retrofit of existing structures or for new construction. For new construction, the building designer or contractor is responsible for the design of all other elements of the attached structure including framing and foundations in compliance with an approved prescriptive method and all applicable local building codes.

6. Designation Requirements for FORTIFIED Gold

Section 6.2 Wind Pressure Resistance of Windows and Doors

- **Added:** EXCEPTION: Dog doors up to 3ft² installed in exterior walls are exempt from design pressure rating requirement. Dog doors are not allowed to be installed in door or window assemblies unless part of the design pressure-rated tested assembly.

Section 6.3 Wall Impact Resistance

- **Changed:** Wall impact resistance requirements now apply to High Wind as well as Hurricane.

7. Designation Requirements for FORTIFIED Hail Supplement

Section 7.2.1 (Hail Supplement Requirements for) Asphalt Shingles

- **Removed: NOTE:** For asphalt shingle products that have not yet been tested by IBHS and therefore do not appear on the IBHS Impact Ratings List, documentation must indicate that the products are polymer-modified and have either a UL 2218 Class 4 rating or FM 4473 Class 4 rating to be eligible.

Changes to Appendices:

Appendix A

- **Removed:** Complete book of Standard Details
- **Added:**
 - IBHS Contact Information
 - FORTIFIED Directory and Portal Information
 - Homeowner Fact Sheets
 - Index of Standard Details with Links
 - Index of Technical Bulletins with Links
 - Index of Checklists with Links
 - Compliance Forms with Links
 - Calculators with Links
 - Corrosion Maps with Links
 - Flashing Guidelines Information with Link
 - Modular Home Toolkit Information with Link

Appendix B

- **Changed:** FORTIFIED prescriptive roof sheathing attachment requirements are applicable within the parameters described in Section 2.5. For conditions outside of these parameters, roof sheathing attachments may be independently verified by a professional engineer (refer to [Appendix D](#) for definition) as described in Section 2.5, incorporating the following minimum factors of safety:
 - ASCE 7-10 ASD Method: ASD C&C wind load x 2.0 factor of safety
 - ASCE 7-10 LRFD Method: [LRFD C&C wind load x 0.6] x 2.0 factor of safety
 - ASCE 7-16 and ASCE 7-22 ASD Method: ASD C&C wind load x 1.67 factor of safety
 - ASCE 7-16 and ASCE 7-22 LRFD Method: LRFD C&C wind load x 1.0 factor of safety

Appendix C

- All references updated

Appendix D

- The following definitions were updated:
 - Certified FORTIFIED Evaluator
 - Certified FORTIFIED Roofing Contractor
 - Certified FORTIFIED Professional

Appendix E

- Updated to latest IBHS Roof Shingle Hail Impact Ratings

Appendix F

- Entire appendix updated for most recent codes and standards