

FORTIFIED Commercial™– 2025 Wind

Existing Construction, Low-Sloped ($\leq 10^\circ$) Re-Roofing

This form captures the specific construction details for existing construction, low-sloped re-roofing. Qualifications are listed in section 3.1.1 of the FORTIFIED Commercial– 2025 Wind standard.

This form is to be filled out by the project architect, a licensed structural engineer, and the general contractor and/or roofer. It confirms the requirements for the selected FORTIFIED level have been included in the building documents and the contractor and/or roofer is aware of these requirements.

Fill out only the applicable sections. Some portions of the sections may pertain only to Hurricane or High Wind—fill out accordingly depending on your building’s exposure.

Compliance Agreement

I, the DESIGNER COMPLETING THIS CHECKLIST, understand and agree that:

1. The *FORTIFIED Commercial– 2025 Wind Existing Construction, Low-Sloped Re-Roofing Form* must be completed FULLY and CORRECTLY for the applicable hazards.
2. I will provide engineered plans (and all other necessary documentation) that verify the structure meets FORTIFIED design criteria BEFORE construction starts. These plans and documents must be:
 - Legible
 - Complete
 - Certified by the Professional of Record
 - Included with this document
3. The plans submitted will comply with all local building codes and with the FORTIFIED Commercial criteria as detailed in the FORTIFIED Commercial– 2025 Wind standard.

Full Name: _____

License/Registration Number: _____

Signature: _____

Date: _____

Hazard and FORTIFIED Level

Select the site-specific hazard¹: Hurricane High Wind

Select the FORTIFIED Commercial Wind level being pursued:

- FORTIFIED Roof™**—Enhanced roof performance
- FORTIFIED Silver™**—FORTIFIED Roof requirements plus building envelope protection and reduction of business operations downtime
- FORTIFIED Gold™**—FORTIFIED Silver requirements plus enhanced structural performance and maintaining business operations

¹Hurricane-prone regions are areas vulnerable to hurricanes as defined in ASCE 7. See section 1.4 of the FORTIFIED Commercial– 2025 Wind standard for more information.

²All damaged or deteriorated roof deck must be removed and replaced. See section 3.1.1.2.1 of the FORTIFIED Commercial– 2025 Wind standard.

Building Overview

Street Address: _____

City: _____

State: _____

Zip Code: _____

Year of Construction: _____

Existing buildings with wood frame roofs must be constructed in accordance with the 2000 IBC or later for eligibility.

Yes No N/A

Please select the option which best describes the buildings proximity to saltwater:

- Within 300 feet
- More than 300 ft but less than 1,000 ft
- More than 1,000 ft but less than 3,000 ft
- More than 3,000 ft

Corrosion protection requirements outlined in section 3.1.4 of the FORTIFIED Commercial– 2025 Wind standard have been implemented

YES NO

Project Status

Tentative Re-Roofing Start Date: _____

Tentative Completion Date: _____

Re-covering applications are not permitted. Check box to confirm this method is not being used.

Select the option(s) which best describe the building:

- Low-slope re-roofing using existing structural roof deck²
- Low-slope re-roofing with new structural roof deck
- Other³: _____

³Must be confirmed/approved by IBHS and/or the FORTIFIED Commercial Evaluator.

General Building Characteristic

Number of Stories: _____

Roof Slope: _____

Gross Square Footage (sq ft): _____

Building Dimensions (ft):

Length: _____

Width: _____

Height: _____

Occupancy Type: _____

Wall/Framing (gravity system) [select all that apply]:

Concrete Masonry

Steel Light Gauge

Wood

Other: _____

Lateral System [select all that apply]:

Moment Frames or Braced Frames

Shear Walls

Other: _____

Flood—Recommended Whole-Building Protection (Not Required)

While protecting electrical and mechanical systems from flood is a requirement of FORTIFIED Silver, whole-building protection against the flood hazard is not required under FORTIFIED Commercial.

First finished floor elevation (ft): _____

FEMA-designated flood zone⁴: _____

If located in a FEMA-designated flood zone (V, A, B, D, and X-shaded), please select one of the following options:

- The building's first finished floor is located above the 500-year flood level.
 - 500-year flood level (ft): _____
- The building's first finished floors is located 3 ft above the base flood elevation.
 - Flood level (ft): _____
- Dry flood protection such as flood gates, walls, or doors, inflatable barriers, sand bags, or similar devices are readily available on site to help mitigate water intrusion.
- Not applicable (N/A)

Hail—Recommended Protection (Not Required)

Are you seeking the Hail Supplement? Yes No

If yes, select one of the following options for the installed roof cover:

- FM Approval Standard 4470 with a Class 1-SH or 1-VSH
- UL 2218 Class 4
- Not Applicable

⁴Flood zone as defined by FEMA.

⁵When seeking FORTIFIED Gold, the existing foundation systems must be evaluated by the structural engineer of record. Additional information and on-site testing may be required to verify the structural capacity of the existing conditions.

Existing Conditions Verification

Foundations

Check the box beside each requirement to indicate that the existing foundation is in accordance with the standard. Fill out requested information where indicated.

- The existing foundation system is NOT constructed of unrestrained stacked masonry or stone (dry-stacked foundation).
- The existing foundation system has adequate positive connections from the floor or wall structure to support the foundation.⁵

Low-Slope Re-Roofing Using Existing Structural Deck

If the existing structural roof deck is going to be re-used, complete the following section.

Existing Structural Deck Material: _____

Check the box beside each requirement to indicate that the existing structural roof deck is in accordance with the standard. Fill out requested information where indicated.

- The existing structural roof deck was inspected after old roofing materials were removed.

Were there any locations where the existing structural roof deck was damaged or deteriorated?⁶

Yes No

If YES was selected, please describe the type of damage.

⁶If re-roofing, all roof decks shall be evaluated for any rust, rotting, or any other condition that may reduce the integrity of the deck. If the deck includes lightweight insulating concrete, gypsum, cementitious wood-fiber or similar materials, the deck also must be evaluated for moisture, cracks, or brittleness, and insulation fastener pull tests shall be conducted.

Fill out the following if damage or deterioration of existing structural deck was indicated:

The damaged sections of the deck were removed, and the entire sheet was replaced with the same deck type and thickness as the existing.

Yes No

If the roof deck is damaged, there is a possibility that the framing members are damaged as well.

Roof framing members below the deteriorated roof deck were evaluated for damage.

Yes No

If yes was indicated that roof framing members were damaged or deteriorated, then the members must be evaluated by a structural engineer. Please provide the signed and sealed conditions report by a licensed structural engineer.

All necessary repairs to the roof deck were completed prior to installation of a new roof cover system.

Yes No

Low-Slope Re-Roofing with New Structural Roof Deck Yes No

If the existing structural roof deck is going to be replaced with a new one, please complete the following section. Check the box beside each requirement to indicate that the existing structural roof framing is in accordance with the standard. Fill out requested information where indicated.

Roof framing members below the deteriorated roof deck were evaluated for damage.

Yes No

If yes was indicated that roof framing members were damaged or deteriorated, then the members must be evaluated by a structural engineer. Please provide the signed and sealed conditions report by a licensed structural engineer.

All necessary repairs to the roof deck was completed prior to installation of a new roof deck and roof cover system.

Yes No

FORTIFIED Roof

Roof Configuration

Does the building have more than one roof type? Yes No

If yes, please fill out the low slope roof details section for the corresponding quantity of roof systems. Number of different roof types are _____.

Does the building have roofs at multiple heights?

Yes No

If yes, are the heights different enough that roof systems with different wind ratings are specified?

Yes No

If yes, fill out the low slope roof details section for each roof system with a different wind rating.

General Information

Roof Type Number: _____ Out of: _____

Roof Slope (degrees): _____

Average Roof Height (ft): _____

ASCE 7 Roof Dimension "a" (ft): _____

Re-Roofing Code Specification

Select the applicable code and fill out the corresponding information:

ASCE 7-10
 Risk Category II
 Risk Category III
 Risk Category IV
Design wind speed (V_{uit}): _____ mph

ASCE 7-16
 Risk Category II
 Risk Category III
 Risk Category IV
Design wind speed (V_{uit}): _____ mph

ASCE 7-16
 Risk Category II
 Risk Category III
 Risk Category IV
Design wind speed (V_{uit}): _____ mph

ASCE 7-22
 Risk Category II
 Risk Category III
 Risk Category IV
Design wind speed (V_{uit}): _____ mph

Select the applicable building code:

IBC 2000 IBC 2012
 IBC 2003 IBC 2015
 IBC 2006 IBC 2018
 IBC 2009 IBC 2021

Low-Slope Re-Roofing Details

Roof System Type

Select the roofing system type:

- Architectural Metal Panels (attached to wood deck)¹⁰
- Built-up Roofing
 - Gravel fully embedded in asphalt
 - loose-laid gravel on low-sloped (**High-Wind-Prone Regions Only**)
- Modified Bitumen
- Single-ply Membrane¹¹
 - TPO
 - PVC
 - EPDM
- Structural Metal Panels
- Vegetative Roof Systems (**High-Wind-Prone Regions Only**)

Approved Low-Sloped System

Material substitutions and deviations from the approved system's design criteria are not acceptable. The entire system must be installed in accordance with the Approval or Product Evaluation description and meets the specified design and limitations for use of the product as well as specified installation methods. Yes

Please select and complete one of the following low-sloped approved roofing systems:

- Florida Product Approval (FPA)

Note: The design team must submit a copy of the FPA Evaluation Report for each approved system to the FORTIFIED Commercial Evaluator. FPA Evaluation Reports can be found by using the search tool located: www.floridabuilding.org/pr/pr_app_srch.aspx

- Multiple Systems
 - **Field**
Uplift Resistance (psf): _____
FL Number: _____
 - **Perimeter**
Uplift Resistance (psf): _____
FL Number: _____
 - **Corner**
Uplift Resistance (psf): _____
FL Number: _____
- Single System
Uplift Resistance (psf): _____
FL Number: _____

- Single System—Enhanced Fastening¹²
Uplift Resistance (psf): _____
FL Number: _____
Describe the enhancements: _____

Enhancements have been designed for the component and cladding wind pressures and provide uplift resistance with a minimum factor of safety of 2.0 (1.67 for ASCE 7-16 ASD loads) in the field, perimeter, and corners of the roof as described in section Roof Design Load Requirement. Yes

- FM Approved with a current and active [RoofNav](#) Assembly Number

Note: The design team must submit a copy of the FM Assembly Report highlighting the selected assembly details for each approved system to the FORTIFIED Commercial Evaluator. FM Approved roof assemblies can be found by using the RoofNav® search tool located at www.roofnav.com.

- Multiple Systems
 - **Field**
FM Rating: _____
Roof Nav Assembly #: _____
 - **Perimeter**
FM Rating: _____
Roof Nav Assembly #: _____
 - **Corner**
FM Rating: _____
Roof Nav Assembly #: _____
- Single System
FM Rating: _____
Roof Nav Assembly #: _____

- ICC Evaluation Service (ICC-ES)

Note: The design team must also submit a copy of the ICC-ES Report for each approved system to the FORTIFIED Commercial Evaluator. ICC-ES Approved roof assemblies can be found by using the search tool located at www.icc-es.org/evaluation-report-program/reports-directory.

- Multiple Systems
 - **Field**
ESR Report Number: _____
Division Number: _____

¹⁰If selected, skip "Roof System Detail Breakdown" and fill out the information in the "Architectural/Structural Metal Roof Panel Systems" section.

¹¹See "Additional Single-ply Membrane Requirements" section.

¹²In some instances, FPA does permit edge (perimeter/corner) enhancements. Enhancements must follow provisions stated in corresponding active FPA Evaluation Report.

Section Number: _____

Table and System Number: _____

Uplift Resistance(psf): _____

▪ **Perimeter**

ESR Report Number: _____

Division Number: _____

Section Number: _____

Table and System Number: _____

Uplift Resistance (psf): _____

▪ **Corner**

ESR Report Number: _____

Division Number: _____

Section Number: _____

Table and System Number: _____

Uplift Resistance (psf): _____

Single System

ESR Report Number: _____

Division Number: _____

Section Number: _____

Table and System Number: _____

Uplift Resistance(psf): _____

Miami-Dade County (MDCA) with current and active Notice of Acceptance (NOA)

Multiple Systems

▪ **Field**

NOA: _____

Uplift Resistance: _____

▪ **Perimeter**

NOA: _____

Uplift Resistance: _____

▪ **Corner**

NOA: _____

Uplift Resistance: _____

Single System

NOA: _____

Uplift Resistance: _____

Single System with Edge (Perimeter/Corner) Enhancements

▪ **Field**

NOA: _____

Uplift Resistance: _____

Note: Perimeter and corner enhancements can be made in accordance with the Miami-Dade County Notice of Acceptance.

Describe the enhancements and how they were obtained for both the perimeter and corner:

Texas Department of Insurance (TDI)

Note: The design team must also submit a copy of the TDI Product Evaluation Report for each approved system to the FORTIFIED Commercial Evaluator. TDI Approved roof assemblies can be found by using the search tool located at www.tdi.texas.gov/wind/prod/indexrc.html.

Multiple Systems

▪ **Field**

TDI Evaluation ID: _____

Assembly Number: _____

Uplift Resistance Range: _____

▪ **Perimeter**

TDI Evaluation ID: _____

Assembly Number: _____

Uplift Resistance Range: _____

▪ **Corner**

TDI Evaluation ID: _____

Assembly Number: _____

Uplift Resistance Range: _____

Single System

TDI Evaluation ID: _____

Assembly Number: _____

Uplift Resistance Range: _____

UL Rated

Note: The design team must submit a copy of the UL Product Specification Report for each approved system to the FORTIFIED Commercial Evaluator. Product Specification Reports can be found by using the UL search tool located at <http://productspec.ul.com/index.php>.

Multiple Systems

▪ **Field**

UL Product Number: _____

Option Number: _____

Uplift Resistance (psf): _____

▪ **Perimeter**

UL Product Number: _____

Option Number: _____

Uplift Resistance (psf): _____

▪ **Corner**

UL Product Number: _____

Option Number: _____

Uplift Resistance (psf): _____

Single System

UL Product Number: _____

Option Number: _____

Uplift Resistance (psf): _____

Roof System Detail Breakdown

Fill in the correct information for the individual parts of the approved system. If it does not apply to the selected approved system, please select N/A.

For architectural and structural metal roof panel systems, do not fill out the information in this section—rather, fill out the information in the “Architectural/Structural Metal Roof Panel Systems” section.

Cover/Cap Sheet Yes N/A

Cover/Cap Sheet Type: _____

Manufacturer: _____

Trade Name: _____

Cover/Cap Sheet Attachment Yes N/A

Adhered

Manufacturer: _____

Trade Name: _____

Adhesion Rate: _____

Mechanically Fastened

Sheet Width (in.): _____

Fastener:

Manufacturer: _____

Type: _____

Plate:

Manufacturer: _____

Type: _____

Fastener Spacing (in.):

Field: _____

Perimeter: _____

Corner: _____

Fastener Spacing Along Laps (in.):

Field: _____

Perimeter: _____

Corner: _____

Cover Board Yes N/A

Select the cover board type:

Polyisocyanurate

Perlite

Fiberglass

Wood Fiber

Other: _____

Manufacturer: _____

Trade Name: _____

Thickness (in.): _____

Cover Board Attachment:

Adhered

Mechanically Fastened

Details: _____

Insulation Yes N/A

Select the insulation board(s) type:

Isocyanurate

Perlite

Fiberglass

Wood Fiber

Other: _____

Manufacturer: _____

Trade Name: _____

Board Thickness (in.): _____

Number of boards: _____

Is the insulation board tapered? Yes No

Intermediate Layers Yes N/A

Select the intermediate layer type:

Isocyanurate

Perlite

Fiberglass

Wood Fiber

Other: _____

Manufacturer: _____

Trade Type: _____

Thickness (in.): _____

Insulation Board Fasteners Yes N/A

Select the attachment method:

Adhered

Manufacturer: _____

Trade Name: _____

Application Type¹³: _____

Adhesion Rate: _____

Mechanically Fastened

Fastener:

Trade Name: _____

Diameter (in): _____

Length (in): _____

Plate:

Plate Name: _____

Plate Material:

Metal Plastic

Other: _____

Plate Diameter (in): _____

Fastening Pattern¹⁴:

Field: _____

Perimeter: _____

Corner: _____

Base Sheet Yes N/A

Base sheet general information:

Base Sheet Manufacturer: _____

Thickness (in): _____

Base sheet attachment:

Self-Adhered

Mechanically Attached

Fastener:

Trade Name: _____

Fastener Type:

Split Shank

Other: _____

Diameter (in): _____

Length (in): _____

Plate (if differs from trade name above):

Plate Name: _____

Plate Material:

Metal Plastic

Other: _____

Plate Diameter (in): _____

Fastening Pattern¹³:

Field: _____

Perimeter: _____

Corner: _____

Additional Single-Ply Membrane Requirements Yes N/A

Single-ply roof covers have a perimeter peel stop with a termination bar or similar located 1–2 ft from the roof edge. Yes N/A

Mechanically Attached Single-Ply Membrane on Steel Decks—Sheets and fasteners are installed PERPENDICULAR to the steel deck ribs.

Yes N/A

Ballasted, roof pavers, and pedestal systems are NOT being used.

Yes

Vegetative Roof Systems (High-Wind-Prone Regions Only)

Yes N/A

Vegetative roof systems are permitted only high-wind-prone regions. Structural calculations, uplift tests, and/or additional documentation may be requested by the FORTIFIED Commercial Evaluator.

Select the system:

Extensive

Simple Intensive (Semi-Intensive)

Provide the appropriate approval rating and number:

FM RoofNav Number: _____

Miami-Dade NOA: _____

¹³Refers to the application; fully adhered, strips, ribbons, etc. For example, securement of insulation to concrete deck with an adhesive applied was installed in a serpentine method with a ribbon width of 0.75 in.

¹⁴Fastening pattern rate shall be in terms of square footage (sq ft) per (1) fastener.

Architectural/Structural Metal Roof Panel

Yes N/A

Please indicate the roof system:

Non-structural architectural metal panel roofs on solid wood sheathing

Structural metal panel roof systems on open framing members

Structural Standing Seam

Through-Fastened (Lap Seam)

Purlin spacing:

Field: _____

Perimeter: _____

Corner: _____

Approved System:

FM Approval Standard 4470 or FM4471

FM RoofNav: _____

Miami-Dade County Approved

NOA: _____

Attachment:

Clip Spacing (in.):

Field: _____

Perimeter: _____

Corner: _____

Number of screws per clip: _____

Total screw pull out value (lb): _____

Other (i.e., through-fastened with wood screw):

Describe: _____

Field: _____

Perimeter: _____

Corner: _____

Lap Seam Fasteners:

Field: _____

Perimeter: _____

Corner: _____

Attachments include a minimum 2.0 safety factor as described in section 3.1.1.3 of the FORTIFIED Commercial– 2025 Wind standard.

Structural Roof Deck

Structural roof deck resists the loads and load combinations specified in ASCE 7 as outlined in section 3.1.1.3.1 of the FORTIFIED Commercial– 2025 Wind standard.

Structural roof deck attachment capacity meets the pressures outlined in section 3.1.1.3 of the FORTIFIED Commercial– 2025 Wind standard.

Structural calculations verifying the roof deck capacity and attachment must be submitted to the FORTIFIED Commercial Evaluator with this form.

Select the deck type and specify construction:

Cast-in-place structural concrete with lightweight insulating concrete (LWIC) above structural concrete

Cast-in-place structural concrete without LWIC

Poured concrete on steel form deck with LWIC

Poured concrete on steel form deck without LWIC

Precast concrete “tees”

Panel width (in.): _____

Gypsum on bulb “tees”

Panel width (in.): _____

Clip trade name: _____

Clip spacing (in.):

Field: _____

Perimeter: _____

Corner: _____

Cementitious wood fiber

Panel width (in.): _____

Clip trade name: _____

Clip spacing (in.):

Field: _____

Perimeter: _____

Corner: _____

LWIC poured on steel form (fill out steel deck information below)

Steel deck

Specify the details listed below:

Deck gauge: _____

Deck attachment method:

Weld

Weld size (in.): _____

Weld spacing (in.): _____

Field: _____

Perimeter: _____

Corner: _____

Screw or Rivet
Size: _____
Head diameter (in.): _____
Spacing (in.): _____
Field: _____
Perimeter: _____
Corner: _____

Other: _____
Spacing (in.): _____
Field: _____
Perimeter: _____
Corner: _____

Joist or Beam Spacing (in.): _____
Field: _____
Perimeter: _____
Corner: _____
Manufacturer: _____
Model: _____
Type/size: _____

Wood Deck

Deck Type:

- Plywood
- Oriented strand board (OSB) plank
- Other: _____

Deck Thickness (in.): _____

Deck Attachment Method:

- Screw ring-shank nail
 - Spiral nail
 - Smooth nail
- Fastener size: _____
Fastener spacing (in.): _____

Structural Framing Members:

- Wood joists
- Wood beams
- Glulam beams
- Cross laminated timber
- Other: _____

Structural Framing Member Spacing (in.): _____

Field: _____
Perimeter: _____
Corner: _____

Roof Edge Flashing, Coping, and Counter

Flashing Yes N/A

All flashing is designed in accordance with ANSI/SPRI/FM 4435/ES-1 for the ASCE 7 design wind pressures as outlined in section 3.1.1.3.1 of the FORTIFIED Commercial– 2025 Wind standard.

Wood Nailers Yes N/A

Wood nailers comply with the guidance found in section 2.2.2 of the FM Data Sheet 1-49.

Wood Nailer:

Wood Species: _____

Width: _____

Thickness(in): _____

Wood Nailer Securement:

Nail/Bolt Size: _____

Corrosion Resistance:

Hot-dipper galvanized steel

Stainless steel

Other: _____

Wood nailers have been secured with two rows of staggered fasteners.

Gutters Systems

Yes N/A

Select the option which best describes the gutter system.

ANSI-SPRI GD-1 (2010) with the adjustments outlined in section 3.1.1.3 of the FORTIFIED Commercial– 2025 Wind standard.

ANSI-SPRI GT-1 (2016) with the adjustments outlined in section 3.1.1.3 of the FORTIFIED Commercial– 2025 Wind standard.

Skylights

Yes N/A

Check the box beside each requirement to indicate that the skylights are in accordance with the FORTIFIED Commercial– 2025 Wind standard.

Skylights and their attachments are designed and detailed for the ASCE 7 wind loads and provide an uplift resistance as defined in section 3.1.1.3.1.

Skylights must be tested and approved at a minimum to (check one that applies):

AAMA/WDMA/CSA 101/ CSA 101/ A440, ASTM E330

The Florida Building Code Testing Application Standard TAS 202

Installation meets the air and water infiltration requirements of ASTM E330 and ASTM E331.

The curb is designed to meet the minimum required uplift requirements with additional factor of safety as defined in section 3.1.1.3.

Hurricane-Prone Regions Only:

Skylights shall conform to one of the following:

- ASTM E1886 cyclic pressure test requirements and ASTM E1996 large missile impact rated “C” or “D”
- FM Approved per ANSI FM 4431 and FM 4350 with large missile impact rating.
- Miami-Dade County Approved (TAS 201 and TAS203), with large missile impact rating.

Roof-Mounted Structures and Equipment (RME)

Yes N/A

Check the box beside each requirement to indicate that the RME are in accordance with the FORTIFIED Commercial– 2025 Wind standard.

- Ballasted systems are NOT used.
- All RME and their attachments have been designed with a minimum factor of safety as defined in section 3.1.1.3 of the FORTIFIED Commercial– 2025 Wind standard.

All RME and their attachments are in accordance with one of the following:

- ASCE 7-10 Section 29.5.1 ($h \leq 60$ ft)
- ASCE 7-16 Section 29.4

Photovoltaic Systems

Yes N/A

Photovoltaic (PV) systems and their attachments are designed with a minimum factor of safety outlined in section 3.1.1.3 of the FORTIFIED Commercial– 2025 Wind standard and in accordance with (select one):

- ASCE 7-16
- ASCE 7-22
- SEAOC PV2
- Model-scale wind tunnel study that meets the requirements of ASCE 49-12 (documentation must be submitted)

Lightning Protection

Yes N/A

Check the box beside each requirement to indicate that the lightning protection system is in accordance with the FORTIFIED Commercial– 2025 Wind standard.

- The system is designed and installed in accordance with FEMA-Rooftop Attached Lightning Protection Systems in High-Wind Regions.
- Looped conductor connections were used in lieu of pronged connectors.
- Bolted splice connectors were used in lieu of pronged connectors.

Low-Sloped ($\leq 10^\circ$) Roof-Mounted Safety Rails

Yes N/A

Check the box beside each requirement to indicate that the Low-Sloped ($\leq 10^\circ$) Roof-Mounted Safety Rails are in accordance with the FORTIFIED Commercial– 2025 Wind standard.

- Rails and their connections were designed in accordance with IBC 2015/2018 and ASCE 7-10/16.
- A calculation set by the engineer of record must be submitted with this document including all wind design parameters, member selection and design, connection details and capacity verification, and the supporting structural member calculations.

Low-Sloped ($\leq 10^\circ$) Roof Equipment Screens

Yes N/A

Check the box beside each requirement to indicate that the Low-Sloped ($\leq 10^\circ$) Roof Equipment Screens are in accordance with the FORTIFIED Commercial– 2025 Wind standard.

- Roof equipment screens and their connections were designed to the parameters of section 3.1.1.3.1 of the FORTIFIED Commercial– 2025 Wind standard.

Re-Roofing Photo Documentation

Additional photo documentation may be requested by FORTIFIED Commercial Evaluator.

Photo documentation is a supplementary tool that helps the FORTIFIED Commercial Evaluator inspect the roofing job more efficiently. Clear and focused photos help ensure all items are captured and could reduce the time of the overall inspection process.

Existing Conditions Documentation

Overview

- Photo(s) - exposed structural deck with removed cover (single ply, built-up, etc.) in the corner, perimeter, and field conditions¹⁵

Damaged or Deteriorated Structural Deck and Framing Members

YES N/A

- Photo(s) - damaged or deteriorated existing structural deck
- Photo(s) - photos of the structural framing members under the damaged or deteriorated existing structural deck (damaged deck removed)

Re-Roofing

Re-Roofing Materials

- Photo(s) - all roof covering material labels including but not limited to coverboard, insulation, membranes, and fasteners.

Structural Deck Fastening

YES N/A

Use a measuring tape to show spacing of existing fasteners and additional fasteners added to meet the minimum spacing requirement specified in the FORTIFIED Commercial– 2025 Wind standard.

- Photos (Minimum of 2 locations) - structural deck in the corner area
- Photos (Minimum of 2 locations) - structural deck in the perimeter area
- Photos (Minimum of 2 locations) - structural deck in the field area
- Photos (Minimum of 2 locations) - structural deck at the roof ridge or top of a mono-sloped roof

Cover Installation

YES N/A

- Photos (minimum of 2 locations) - fastening or adhesion pattern in the corner area
- Photos (minimum of 2 locations) - fastening or adhesion pattern in the perimeter area
- Photos (minimum of 2 locations) - fastening or adhesion pattern in the field area
- Photo(s) - any additional photos documenting the proper installation of the roof cover.

¹⁵A photo is required in all areas of the roof; for example, if the roof has four corner conditions, four corner conditions are captured.

FORTIFIED SILVER

All FORTIFIED Roof requirements must be satisfied.

For this section, check the box beside each requirement or respond to the item to indicate that items are in accordance with the FORTIFIED Commercial– 2025 Wind standard.

Opening Protection

Wall Design Pressures

Provide select and fill out the appropriate wind pressures.

- ASCE 7-05 and 7-10 design pressures (psf) using minimum terrain Exposure C or D and effective wind area of 10 sq ft

Please select the method used to obtain base pressures:

- ASD LRFD

Specify the wind pressures (psf):

Zone 4: _____

Zone 5: _____

- ASCE 7-16 design pressures (psf) using minimum terrain Exposure C or D and effective wind area of 10 sq ft

Please select the method used to obtain base pressures:

- ASD LRFD

Specify the wind pressures (psf):

Zone 4: _____

Zone 5: _____

Windows and Glazed Openings

Yes N/A

Select the type(s) of window system:

- Single-pane
- Double-pane
- Laminated glass
- Impact-rated laminated window and frame system
- Triple-pane impact-rated laminated window and frame system

Check the box beside each requirement or respond to the item to indicate that the windows are in accordance with the FORTIFIED Commercial– 2025 Wind standard.

- Windows and glazed openings are designed for the load combinations outlined in section 3.1.1.3.1 of the FORTIFIED Commercial–Wind standard.

Hurricane-Prone Regions: Fill out the following if you are located in a hurricane-prone region. If you are not located in a hurricane-prone region, continue to high-wind-prone region.

- Labels verifying the impact rating and pressure capacity are visible on the installed windows.

Windows, glazed openings, curtain walls meet (select one of the following):

- AAMA/WDMA/CSA 101/ CSA 101/ A440, ASTM E330
- The Florida Building Code Testing Application Standard TAS 202

Impact Protection:

Within 30 Feet of Grade: Windows, glazed openings, curtain walls meet (select one of the following):

- Large Missile Level D (9 lb 2x4 impacting end on at 50 ft/sec) as defined in ASTM E1996 and ASTM E1886 and AAMA 506
- The Florida Building Code Testing Application Standards TAS 201 and TAS 203

30 Feet or Higher: Windows, glazed openings, curtain walls meet:

- ASTM E1886 cyclic pressure and Small Missile Level A as defined in ASTM E1996, ASTM E1886 and AAMA 506.

Large Commercial Doors

Yes N/A

All large commercial doors including roll-up, overhead, and sectional (garage doors) are designed for the load combinations defined in section 3.1.1.3.1 of the FORTIFIED Commercial– 2025 Wind standard.

Large commercial doors meet (select one of the following):

- AAMA/WDMA/CSA 101/ CSA 101/ A440, ASTM E330
- ANSIDASMA 108
- The Florida Building Code Testing Application Standard TAS 202

Impact Protection:

Large commercial doors meet (select one of the following):

- Large Missile D (9 lb 2x4 impacting end on at 50 ft/sec) as defined in ASTM E1996 and ASTM E1886 and AAMA 506
- ANSI/DASMA 115 Standard Method for Testing Sectional Doors, Rolling Doors, and Flexible Doors: Determination of Structural Performance Under Missile Impact and Cyclic Wind Pressure
- The Florida Building Code TAS 201 (Impact Test Procedures), 202 (Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure), and 203 (Criteria for Testing Products Subject to Cyclic Wind Pressure Loading)

Exterior Personnel Doors Yes N/A

All personnel doors are designed for the load combinations outlined in section 3.1.1.3.1 of the FORTIFIED Commercial– 2025 Wind standard.

Hurricane-Prone Regions: Fill out the following if you are located in a hurricane-prone region.

Exterior personnel doors meet (select one of the following):

- AAMA/WDMA/CSA 101/ CSA 101/ A440, ASTM E330
- The Florida Building Code Testing Application Standard TAS 202

Exterior Walls and Wall Protection

Wall systems are designed for the load combinations outlined in section 3.1.1.3.1 of the FORTIFIED Commercial– 2025 Wind standard

Hurricane-Prone Regions: Fill out the following if you are located in a hurricane-prone region.

- Wall impact resistance meets the requirements of ASTM E1886 and ASTM E1996 for the impact of a 9-lb nominal 2x4 lumber missile impacting end on at 34 mph (50ft/s) (large missile impact level D).

Wall Types

Select all that apply; for hurricane-prone regions, exterior walls must be impact rated (denoted as “IR” below).

- Reinforced concrete block (IR)
- Precast concrete/tilt up panels (IR)
- Cast-in-place concrete (IR)
- Brick veneer over wood or metal frame
- Brick with concrete block backing (IR)
- Metal walls
 - Metal wall systems are designed and tested for resistance in accordance with ASTM E1592. Each assembly shall be tested for a load equal to 1.5 times the design pressure.
- Insulated concrete form
- Sandwich panel wall systems
 - Meets the International Code Council (ICC) Evaluation Service – Acceptance Criteria for Sandwich Panels AC04. Any adhesives used shall comply with ASTM D2559 or the ICC Acceptance Criteria for Sandwich Panel Adhesives AC05.

¹⁶For all existing EIFS that meet these criteria, a qualified professional with an active AWCIEIFS Inspectors certification shall inspect the EIFS and provide supporting documentation regarding its condition. EIFS that are not visibly damaged, deteriorated, chipped, or cracked, that have structurally sound horizontal and vertical seals including around windows and penetrations, are free of leaks, and have at least 5 years of useful life remaining are eligible for a

Exterior insulating finishing systems (EIFS) ¹⁶

For all new construction applications, EIFS systems shall be installed by a qualified professional with an active Association of the Wall and Ceiling Industry (AWCI)- EIFS Mechanics certification.

Hurricane-Prone Regions Only: EIFS Installed on a metal or wood frame are not permitted unless they are a Miami-Dade County Approved system.

Solid insulated concrete forms / ¾-in. plywood/ ≥7/16-in. wood structural panel sheathing with one of the following finishes:

- ½-in. stucco (IR)
- ½-in. thick wood (IR)
- ½-in. fiber-cement-based planking (IR)

≥¾-in.-thick wood structural panel sheathing with vinyl or aluminum siding (IR)

Other walls

Describe “other” wall system:

Wall systems are designed for the load combinations outlined in section 3.1.1.3.1 of the FORTIFIED Commercial– 2025 Wind standard

Hurricane-Prone Regions: Fill out the following if you are located in a hurricane-prone region.

- Wall impact resistance meets the requirements of ASTM E1886 and ASTM E1996 for the impact of a 9-lb nominal 2x4 lumber missile impacting end on at 34 mph (50ft/s) (large missile impact level D).

Parapets Yes N/A

Is the parapet taller than 3 ft from base connection to free end?

Yes NO

If yes, is structural bracing (internal or external) provided and does it meet the minimum ASCE 7 standards?

Yes NO

FORTIFIED Silver designation. EIFS that do not meet these conditions and/or do not have at least 5 years of useful life remaining will require repairs or replacement to be eligible for a FORTIFIED Silver designation.

Chimneys

Yes N/A

Chimneys have adequate load path members and connections capable of resisting the loads and load combinations specified in ASCE 7 as outlined in section 3.1.1.3.1.

Electrical/ Mechanical Systems

Flood Protection

All electrical and mechanical equipment and connections necessary to operate critical systems are located above the 500-year flood level if known, or at least 3 ft above the known base flood elevation (100-year flood level) or advisory flood elevation.

Yes N/A

Since the building is located out of a 500-year and 100-year flood zone, all electrical and mechanical equipment and connections necessary to operate critical systems are not exposed to flood waters.

Yes N/A

Electrical Connections for Backup Power Yes N/A

Hurricane-Prone Regions: Fill out the following if you are located in a hurricane-prone region.

High-Wind-Prone Regions: Recommended—not required

Transfer switch or docking station (sometimes referred to as a storm switch), that support connection of a generator capable of powering, at a minimum, the critical systems needed to provide continuity of operation.

All electrical connections for backup power are located above the 500-year flood level if known, or at least 3 ft above the known base flood elevation (100-year flood level) or advisory flood elevation.

Yes N/A

FORTIFIED Gold

All FORTIFIED Silver requirements must be satisfied.

For this section, check the box beside each requirement or respond to the item to indicate that items are in accordance with the FORTIFIED Commercial– 2025 Wind standard.

Continuous Load Path

A continuous and adequate load path from the roof to the foundation of the building exist. The building has positive connections from the roof to foundation as a means to transmit wind uplift and lateral loads safely to the ground. This includes providing roof-to-wall connection hardware (e.g., hurricane straps for wood) with the required roof uplift resistance as determined by the designer or specified in the prescriptive method being used.

Inter-story connections in multi-story structures have a continuous load path through the wall to the foundation.

Attached and Accessory Structures

Yes N/A

Convenience store canopies, carports, porte cocheres or any other vehicle-type drive-through structures will have adequate load path members and connections to resist the loads and load combinations specified in ASCE 7 as outlined in section 3.1.1.3.1.

Backup Power

Backup power shall be available and capable of powering critical electrical and mechanical systems that maintain vital business operations. All equipment shall be installed in accordance with the requirements of Electrical Systems (Flood) described in section 3.2.3.