FORTIFIED Commercial™–Wind Existing Construction, Low-Sloped (≤10°) 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—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.

Comp	liance Agreement
I, the DES	SIGNER COMPLETING THIS CHECKLIST, understand and at:
1.	The FORTIFIED Commercial—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
3.	 Included with this document The plans submitted will comply with all local building
3.	codes and with the FORTIFIED Commercial criteria as detailed in the FORTIFIED Commercial—Wind standard.
Full Nam	e:
License/I	Registration Number:
Signature	e:
Date:	
Hazar	d and FORTIFIED Level
Select th	e site-specific hazard¹: ☐ Hurricane ☐ High Wind
Select th	e FORTIFIED Commercia Wind level being pursued:
	RTIFIED Roof™—Enhanced roof performance RTIFIED Silver™—FORTIFIED Roof requirements plus building

envelope protection and reduction of business operations

FORTIFIED Gold™—FORTIFIED Silver requirements plus enhanced structural performance and maintaining business

operations

1.0 Bui	llding Overview
Street Addr	ress:
City:	
State:	
Zip Code:	
Year of Con	nstruction:
_	ildings with wood frame roofs must be constructed in with the 2000 IBC or later for eligibility.
☐ Yes ☐	□ No □ N/A
Please selecto saltwate	
	an 300 ft but less than 1,000 ft
	an 1,000 ft but less than 3,000 ft
☐ More th	an 3,000 ft
Corrosion p	protection requirements outlined in section 3.1.4 of the
FORTIFIED (Commercial–Wind standard have been implemented
Project	Status
Tentative R	te-Roofing Start Date:
Tentative C	Completion Date:
☐ Re-cove	ring applications are not permitted. Check box to confirm
this method	d is not being used.
Select the o	option(s) which best describe the building:
Г	I nw-slone re-roofing using existing structural roof deck ²

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

	☐ Low-slope re-roofing with new structural roof deck	(Optional) Hail Supplement	Yes □N/A □	
General Building Characteristic Number of Stories:		If hail mitigation is being provided, please fill out the "Hail		
		Supplement Form" which can be found on the Commercial website. Submit the Hail Supplen		
		document to the FORTIFIED Commercial Evaluator.		
Roof Slo	pe:			
Gross Sq	uare Footage (sq ft):			
Building	Dimensions (ft):			
	Length:			
	Width:			
	Height:			
	cy Type:			
Wall/Fra	ming (gravity system) [select all that apply]:			
	☐ Concrete ☐ Masonry	2.0 Existing Conditions Veri	fication	
	☐ Steel ☐ Light Gauge	Foundations		
	□ Wood	Check the box beside each requirement to inc	dicate that the existing	
	☐ Other:	foundation is in accordance with the standard	f. Fill out requested	
Lateral S	ystem [select all that apply]:	information where indicated.		
	☐ Moment Frames or Braced Frames	☐ The existing foundation system is NOT con unrestrained stacked masonry or stone (dry-s		
	☐ Shear Walls	☐ The existing foundation system has adequa	ate positive	
	☐ Other:	connections from the floor or wall structure to		
Flood	Recommended Whole-Building	foundation. ⁵		
	ction (Not Required)	Low-Slope Re-Roofing Using Exi	sting Structural	
	otecting electrical and mechanical systems from flood is a	Deck		
	nent of FORTIFIED Silver, whole-building protection against	If the existing structural roof deck is going to	be re-used, complete	
the floor	d hazard is not be required under FORTIFIED Commercial.	the following section.	, ,	
First finis	shed floor elevation (ft):	Existing Structural Deck Material:		
FEMA-de	esignated flood zone ⁴ :	Check the box beside each requirement to inc	dicate that the existing	
	If located in a FEMA-designated flood zone (V, A, B, D, and X-shaded), please select one of the following options:	structural roof deck is in accordance with the requested information where indicated.	_	
	The building's first finished floor is located above the 500-	\Box The existing structural roof deck was inspe	cted after old roofing	
	year flood level.	materials were removed.		
	 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)			

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

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.

Were there any locations where the existing structural roof deck was damaged or deteriorated? ⁷	All necessary repairs to the roof deck was completed prio to installation of a new roof deck and roof cover system.		
□Yes □No	□Yes □No		
If YES was selected, please describe the type of damage.	3.0 FORTIFIED Roof		
	Roof Configuration		
	Does the building have more than one roof type? \Box Yes \Box No		
Fill out the following if damage or deterioration existing structural deck was indicated:	If yes, please fill out either section 3.0 for the corresponding quantity of roof systems. Number of different roof types are		
The damaged sections of the deck were removed, and the entire sheet was replaced with the same deck type and thickness as the existing.	Does the building have roofs at multiple heights? ☐Yes ☐No If yes, are the heights different enough that roof systems		
□Yes □No	with different wind ratings are specified? ☐ YES ☐ No		
If the roof deck is damaged, there is a possibility that the framing members are damaged as well.	If yes, fill out section 3.0 for each roof system with a different wind rating.		
Roof framing members below the deteriorated roof deck were evaluated for damage.	General Information		
□Yes □No	Roof Type Number:Out of: Roof Slope (degrees):		
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.	Average Roof Height (ft): ASCE 7 Roof Dimension "a" (ft): Re-Roofing Code Specification		
All necessary repairs to the roof deck were completed prior to installation of a new roof cover system.	Select the applicable code and fill out the corresponding information:		
□Yes □No	□ ASCE 7-05		
Low-Slope Re-Roofing with New Structural	☐ Risk Category II		
Roof Deck Yes □ No □	☐ Risk Category III		
	☐ Risk Category IV		
If the existing structural roof deck is going to be replaced with a new one, please complete the following section. Check the box beside	Importance Factor:		
each requirement to indicate that the existing structural roof	Design wind speed (V _{ult}): mph		
framing is in accordance with the standard. Fill out requested	□ ASCE 7-10		
information where indicated.	☐ Risk Category II		
Roof framing members below the deteriorated roof deck were evaluated for damage.	☐ Risk Category III		
•	☐ Risk Category IV Design wind speed (V _{ult}): mph		
□Yes □No			
If yes was indicated that roof framing members were damaged or	□ ASCE 7-16		
deteriorated, then the members must be evaluated by a structural engineer. Please provide the signed and sealed conditions report by	☐ Risk Category II		
a licensed structural engineer.	☐ Risk Category IV		
	☐ Risk Category IV Design wind speed (V _{ult}): mph		
	Design wind speed (V _{ult}): mph		

⁷If 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.

Select the	e applicable building code:
	□ IBC 2000 □ IBC 2012
	□ IBC 2003 □ IBC 2015
	□ IBC 2006 □ IBC 2018
	□ IBC 2009 ·····h ··@#
Exposu	ure Category and Classification
The expo	sure category per ASCE 7 is:
	□C □D
	ance with the code selected in the above section, please he building exposure classification:
	☐ Partially enclosed
	☐ Enclosed
	□ Open
Minim	um Required Factor of Safety
building o	lect the minimum factor of safety that was applied to the design pressures. See section 3.1.1.3 of the FORTIFIED cial—Wind standard.
	ASCE 7-05 Allowable Stress Design (ASD) Method: Calculated ASD wind load x 2 (Minimum Required Factor of Safety)
	ASCE 7-05 Load and Resistance Factor Design (LRFD) Method: (Calculated LRFD wind load/1.6) x 2 (Minimum Required Factor of Safety)
	ASCE 7-10 ASD Method: Calculated ASD wind load x 2 (Minimum Required Factor of Safety)
	ASCE 7-10 LRFD Method: Calculated LRFD wind load x 0.6 x 2 (Minimum Required Factor of Safety)
	ASCE 7-16 ASD Method: Calculated ASD wind load x 1.67 (Minimum Required Factor of Safety)
	ASCE 7-16 LRFD Method: Calculated LRFD wind load
Wind [Design Pressures
Select and	d fill out the appropriate wind pressure table. The base

pressure shall be directly calculated from corresponding ASCE 7 edition and the additional factor of safety as outlined in section

3.1.1.3 of the FORTIFIED Commercial—Wind standard.

☐ 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 m	ethod used to obtain base pressures:	
□ ASD	□ LRFD	
Roof Geometry ⁸ :		

Zone ⁸	Base Design Pressure (psf)	Minimum F.O.S. ⁹	Pressure with F.O.S. (psf)
Field (Zone 1)			
Perimeter (Zone 2)			
Perimeter Overhang (Zone 2OH)			
Corner (Zone 3)			
Corner Overhang (Zone 3OH)			

 $\hfill \square$ 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:

Roof Geometry⁵:_____

□ASD	□LRFD

Zone ¹⁰	Base Design Pressure (psf)	Minimum F.O.S. ⁷	Pressure with F.O.S. (psf)

⁸Roof geometry refers to the ASCE 7 profile designation such as mono-sloped, flat roof, and stepped roof. For more roof geometries, see ASCE 7. ⁹For more information, see section 3.1.1.3.2 of the FORTIFIED Commercial—Wind standard.

¹⁰Please use the table to describe the different wind zones of the roof. ASCE 7-16 has implemented new wind zone designations so please denote which roofing geometry was used to obtain base pressures.

3.1 Low-Slope Re-Roofing Details	Uplift Resistance (psf):
	FL Number:
Roof System Type	☐ Single System
Select the roofing system type:	Uplift Resistance (psf):
☐ Architectural Metal Panels (attached to wood deck) ¹¹	FL Number:
☐ Built-up Roofing	☐ Single System—Enhanced Fastening ¹³
☐ Gravel fully embedded in asphalt	Uplift Resistance (psf):
\square loose-laid gravel on low-sloped (High-Wind-	FL Number:
Prone Regions Only)	Describe the enhancements:
☐ Modified Bitumen	bescribe the children lends.
☐ Single-ply Membrane ¹²	
□ TPO	-
□ PVC	
□ EPDM	
☐Ballasted, Roof Pavers and Pedestal Systems	Eshaman water have been declared for the
(High-Wind-Prone Regions Only)	Enhancements have been designed for the component and cladding wind pressures and
	provide uplift resistance with a minimum factor
☐ Structural Metal Panels	of safety of 2.0 (1.67 for ASCE 7-16 ASD loads) in
☐ Vegetative Roof Systems (High-Wind-Prone Regions	the field, perimeter, and corners of the roof as described in section Roof Design Load
Only)	Requirement. ☐ Yes
Approved Low-Sloped System	☐ FM Approved with a current and active RoofNav Assembly
Vaterial substitutions and deviations from the approved system's	Number
design criteria are not acceptable. The entire system must be	Note: The design term much substitute and of the ENA
nstalled in accordance with the Approval or Product Evaluation	Note: The design team must submit a copy of the FM Assembly Report highlighting the selected assembly detail
description and meets the specified design and limitations for use of	for each approved system to the FORTIFIED Commercial
he product as well as specified installation methods. Yes	Evaluator. FM Approved roof assemblies can be found by
Please select and complete one of the following low-sloped	using the RoofNav® search tool located at
approved roofing systems:	<u>www.roofnav.com</u> .
☐ Florida Product Approval (FPA)	☐ Multiple Systems
Nata. The design team would submit a seguraf the EDA	■ Field
Note: The design team must submit a copy of the FPA Evaluation Report for each approved system to the	FM Rating:
FORTIFIED Commercial Evaluator. FPA Evaluation Reports	Roof Nav Assembly #:
can be found by using the search tool located:	■ Perimeter
www.floridabuilding.org/pr/pr app srch.aspx	FM Rating:
☐ Multiple Systems	Roof Nav Assembly #:
■ Field	• Corner
Uplift Resistance (psf):	FM Rating:
FL Number:	Roof Nav Assembly #:
Perimeter	□ Single System
Uplift Resistance (psf):	FM Rating:
FL Number:	Roof Nav Assembly #:
Corner	·

¹¹If selected, skip "Roof System Detail Breakdown" and fill out the information in the "Architectural/Structural Metal Roof Panel Systems" section.

¹²See "Additional Single-ply Membrane Requirements" section.

¹³In some instances, FPA does permit edge (perimeter/corner) enhancements. Enhancements must follow provisions stated in corresponding active FPA Evaluation Report.

☐ ICC Evaluation S	ervice (ICC-ES)
ES Repor Commer can be fo	e design team must also submit a copy of the ICC- t for each approved system to the FORTIFIED cial Evaluator. ICC-ES Approved roof assemblies bund by using the search tool located at www.icc-valuation-report-program/reports-directory .
0	Multiple Systems
	• Field
	ESR Report Number:
	Division Number:
	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 Cou	unty (MDCA) with current and active Notice of
Acceptance (NOA)	
	Multiple Systems
	• Field
	NOA:
	Uplift Resistance:
	■ Perimeter
	NOA:

Uplift Resistance:

NOA:____

Uplift Resistance:

Corner

	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 Departme	ent of Insurance (TDI)
by using the search	ator. TDI Approved roof assemblies can be found the tool located at https://www.nd/prod/indexrc.html . Multiple Systems
	• Field
	TDI Evaluation ID:
	Assembly Number:
	Uplift Resistance Range:
	Perimeter TDI Evaluation ID:
	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:
□ III Datad	opint resistance range.
☐ UL Rated Note: Th	e design team must submit a copy of the UL

the FORTIFIED Commercial Evaluator. Product

	ion Reports can be found by usi	_			Plate:		
tool locate	ed at http://productspec.ul.com	/index	c.php.		Manufacturer:_		
	Multiple Systems				Type:		
	■ Field				Fastener Spacing (in.):		
	UL Product Number:				Field:		
	Option Number:				Perimeter:		
	Uplift Resistance (psf):				Corner:		
	Perimeter				Fastener Spacing Along La	ps (in.):	
	UL Product Number:				Field:		
	Option Number:				Perimeter:		
	Uplift Resistance (psf):				Corner:		
	■ Corner						
	UL Product Number:			Cover Board		Yes □	N/A □
	Option Number:		_				
	Uplift Resistance (psf):			Select the cover	board type:		
	Single System				☐ Polyisocyanu	rate	
	UL Product Number:				☐ Perlite		
	Option Number:		_		☐ Fiberglass ☐ Wood Fiber		
	Uplift Resistance (psf):				☐ Other:		
					Manufacturer:		
Roof System [Detail Breakdown				Trade Name:		
•		es of th			Thickness (in.):		
	formation for the individual part it does not apply to the selecte			Cover Board Att	achment:		
system, please select		ctomo	do not fill		☐ Adhered ☐ Me	chanically F	astened
	d structural metal roof panel synin this section—rather, fill out to				Details:		
in the "Architectura	l/Structural Metal Roof Panel Sy	/stems	" section.		-		
Cover/Cap Sheet	Ye	es 🗆	N/A 🗆	Insulation		Yes □	N/A □
		_	.,	Select the insula	tion board(s) type:		·
Cover/Cap Sh	eet Type:		_		☐ Isocyanurate		
Manufacturer	r:				☐ Perlite		
Trade Name:					☐ Fiberglass —		
					☐ Wood Fiber		
Cover/Cap Sheet At	ttachmant Vo	es 🗆	N/A 🗆		☐ Other: Manufacturer:		
Cover/ Cap Sileet At	ttacimient	:3 🗀	N/A L		Trade Name:		
☐ Adhere	ed				Board Thickness (in.):		
	Manufacturer:				Number of boards:		
	Trade Name:				Is the insulation board tape		
	Adhesion Rate:						
☐ Mechai	nically Fastened			Intermediate La	yers nediate layer type:	Yes □	N/A □
	Sheet Width (in.):			Select the intern			
	Fastener:				☐ Isocyanurate ☐ Perlite		
	Manufacturer:				☐ Fiberglass		
	Type:				☐ Wood Fiber		

☐ Other:	Diameter (in):
Manufacturer:	Length (in):
Trade Type:	Plate (if differs from trade name above):
Thickness (in.):	Plate Name:
	Plate Material:
nsulation Board Fasteners Yes 🗆 N/A 🗆	☐ Metal ☐ Plastic
Select the attachment method:	☐ Other:
☐ Adhered	Plate Diameter (in):
Manufacturer:	Fastening Pattern ¹³ :
Trade Name:	Field:
Application Type ¹⁴ :	Perimeter:
Adhesion Rate:	Corner:
☐ Mechanically Fastened	
Fastener:	Additional Single-Ply Membrane Requirements Yes N/A
Trade Name:	.,,,,_
Diameter (in):	Single-ply roof covers have a perimeter peel stop with a termination
Length (in):	bar or similar located 1–2 ft from the roof edge. Yes \square N/A \square
Plate:	Manhanian II. Attached Cingle Div Manchana on Charl Deale. Charte
Plate Name:	Mechanically Attached Single-Ply Membrane on Steel Decks—Sheets and fasteners are installed PERPENDICULAR to the steel deck ribs.
Plate Material:	Yes □ N/A □
☐ Metal ☐ Plastic	Hurricane-Prone Regions: Ballasted, roof pavers, and pedestal
☐ Other:	systems are NOT being used. Yes □
Plate Diameter (in):	High-Wind-Prone Regions: If ballasted, roof pavers, and/or pedestal
Fastening Pattern ¹⁵ :	systems are being used please complete the following information:
Field:	
Perimeter:	☐ Ballasted ☐ Roof Paver
	☐ Pedestal System
Corner:	
Base Sheet Yes □ N/A □ Base sheet general information:	$\hfill \square$ Manufacturer specifications must be submitted with this submittal.
Base Sheet Manufacturer:	$\hfill \square$ System meets the minimum wind uplift requirements as defined
Thickness (in):	in section 3.1.1.3 of the FORTIFIED Commercial–Wind standard.
Base sheet attachment:	☐ The selected system has been installed in accordance with FM
☐ Self-Adhered	Data Sheet 1-29 and ANSI/SPRI RP-4.
☐ Mechanically Attached	
Fastener:	Vegetative Roof Systems (High-Wind-Prone Regions Only) Yes □ N/A □
Trade Name:	ies Linya Li
Fastener Type:	Vegetative roof systems are permitted only high-wind-prone
☐ Split Shank	regions. Structural calculations, uplift tests, and/or additional documentation may be requested by the FORTIFIED Commercial
□ Other:	Evaluator.

¹⁴Refers 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.

 $^{^{15}}$ Fastening pattern rate shall be in terms of square footage (sq ft) per (1) fastener.

Select the	e system:
	☐ Extensive ☐ Simple Intensive (Semi-Intensive)
Provide t	he appropriate approval rating and number:
	☐ FM RoofNav Number:
	☐ Miami-Dade NOA:
Archite	ectural/Structural Metal Roof Panel
Yes □	N/A □
Please inc	dicate 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:
	\square FM Approval Standard 4470 or FM4471
	FM RoofNav:
	☐ Miami-Dade County Approved
	NOA:
Attachme	
	☐ 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:

ľ	Perimeter.
(Corner:
	mum 2.0 safety factor as described in ED Commercial–Wind standard.
Structural Roof Deck	
	the loads and load combinations I in section 3.1.1.3.1 of the FORTIFIED
	ment capacity meets the pressures he FORTIFIED Commercial–Wind
	ying the roof deck capacity and d to the FORTIFIED Commercial
Select the deck type and speci	fy construction:
	ctural concrete with lightweight (LWIC) above structural concrete
☐ Cast-in-place stru	ctural concrete without LWIC
☐ Poured concrete	on steel form deck with LWIC
☐ Poured concrete	on steel form deck without LWIC
☐ Precast concrete	"tees"
Panel widt	h (in.):
\square Gypsum on bulb "	'tees"
Panel widt	th (in.):
Clip trade	name:
Clip spacin	g (in.):
ı	Field:
ſ	Perimeter:
(Corner:
☐ Cementitious woo	od fiber
	h (in.):
	name:
Clip spacin	
	Field:
	Perimeter:
	Corner:
☐ Steel deck	
Specify the details lis	sted below:

Deck gauge:	☐ Glulam beams
Deck attachment method:	☐ Cross laminated timber
☐ Weld	☐ Other:
Weld size (in.):	Structural Framing Member Spacing (in.):
Weld spacing (in.):	Field:
Field:	Perimeter:
Perimeter:	Corner:
Corner:	Poof Edgo Flashing Coping and Counter
☐ Screw or ☐ Rivet	Roof Edge Flashing, Coping, and Counter
Size:	Flashing Yes □ N/A □
Head diameter (in.):	☐ All flashing is designed in accordance with ANSI/SPRI/FM
Spacing (in.):	4435/ES-1 for the ASCE 7 design wind pressures as outlined in section 3.1.1.3.1 of the FORTIFIED Commercial–Wind standard.
Field:	
Perimeter:	Wood Nailers Yes □ N/A □
Corner:	☐ Wood nailers comply with the guidance found in section 2.2.2 of the FM Data Sheet 1-49.
□ Other:	Wood Nailer:
Spacing (in.):	
Field:	Wood Species:
Perimeter:	Width:
Corner:	Thickness(in):
Joist or Beam Spacing (in.):	Wood Nailer Securement:
Field:	Nail/Bolt Size: Corrosion Resistance:
Perimeter:	
Corner:	☐ Hot-dipper galvanized steel
Manufacturer:	☐ Stainless steel
Model:	□ Other:
Type/size:	☐ Wood nailers have been secured with two rows of
□ Wood Deck	staggered fasteners.
Deck Type:	
Plywood	Gutters Systems Yes 🗆 N/A 🗆
☐ Oriented strand board (OSB) plank	Select the option which best describes the gutter system.
☐ Other:	
Deck Thickness (in.):	☐ ANSI-SPRI GD-1 (2010) with the adjustments outlined in section 3.1.1.3 of the FORTIFIED Commercial—Wind standard.
Deck Attachment Method:	ANCI CDDI CT 1 /201C) with the adjustments outlined in certical
☐ Screw ring-shank nail	☐ ANSI-SPRI GT-1 (2016) with the adjustments outlined in section 3.1.1.3 of the FORTIFIED Commercial—Wind standard.
☐ Spiral nail	
☐ Smooth nail	Skylights Yes□ N/A □
Fastener size:	Check the box beside each requirement to indicate that the skylights
Fastener spacing (in.):	are in accordance with the FORTIFIED Commercial–Wind standard.
Structural Framing Members:	☐ Skylights and their attachments are designed and detailed for the
☐ Wood joists	ASCE 7 wind loads and provide an uplift resistance with a minimum factor of safety 2.0 for ASCE 7 ASD loads (1.67 for ASCE 7-16 ASD
☐ Wood beams	,

loads). Installation must meet the air and water infiltration requirements of ASTM E330 and ASTM E331. The curb installation must be confirmed by the engineer of record that it shall meet the required uplift with a minimum factor of safety as described in section 3.1.1.3 of the FORTIFIED Commercial-Wind standard. **Hurricane-Prone Regions Only:** Skylights shall conform to one of the following: ☐ Current and active FM Approval per ANSI FM 4431 with large missile impact rating. ☐ Miami-Dade County Approved with a current and active Notice of Acceptance with large missile impact rating. ☐ When the ASCE 7-05 wind speed is ≥130 mph (ASCE 7-10 and 7-16 when appropriate Risk Category design wind speed is ≥165 mph), skylights shall also meet AAMA 520-09. Roof-Mounted Equipment (RME) Yes□ N/A □ Check the box beside each requirement to indicate that the RME are in accordance with the FORTIFIED Commercial-Wind standard. ☐ 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-Wind standard. All RME and their attachments are in accordance with one of the following: ☐ ASCE 7-10 Section 29.5.1 (h≤60ft) ☐ ASCE 7-16 Section 29.4 Yes□ N/A □ Photovoltaic Systems 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-Wind standard and in accordance with (select one): ☐ ASCE 7-16 ☐ SEAOC PV2 ☐ Model-scale wind tunnel study that meets the requirements of ASCE 49-12 (documentation must be submitted) Provided the wind loads used are consistent with the provisions

described above, the following options are acceptable:

above the deck).

Approval Standard 4476.

☐ Rigid PV modules that are FM Approved or meet Approval Standard 4478 (wind uplift, combustibility from

☐ Flexible PV modules that are FM Approved or meet

Lightiming i rotection resulting in
Check the box beside each requirement to indicate that the lightning protection system is in accordance with the FORTIFIED Commercial—Wind standard.
☐ The system is designed and installed in accordance with FEMA-Rooftop Attached Lightning Protection Systems in High-Wind Regions.
$\hfill \square$ Looped conductor connections were used in lieu of pronged connectors.
\square Bolted splice connectors were used in lieu of pronged connectors.
Low-Sloped (≤10°) Roof-Mounted Safety Rails Yes□ N/A □
Check the box beside each requirement to indicate that the Low-Sloped (≤10°) Roof-Mounted Safety Rails are in accordance with the FORTIFIED Commercial—Wind standard.
$\hfill\square$ Rails and their connections were designed in accordance with IBC 2015 and ASCE 7-10.
☐ 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 (≤10°) Roof Equipment Screens Yes□ N/A □
Check the box beside each requirement to indicate that the Low- Sloped (≤10°) Roof Equipment Screens are in accordance with the FORTIFIED Commercial–Wind standard.
\square Roof equipment screens and their connections were designed to the parameters of section 3.1.1.3.1 of the FORTIFIED Commercial–Wind standard.
3.2 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.

Lightning Protection

Yes□ N/A □

Existir	ng Conditions Documentation	
Overvie	⊋W	
	☐ Photo(s) - exposed structural deck with removed c (single ply, built-up, etc.) in the corner, perimeter, an field conditions ¹⁶	
_	ed or Deteriorated Structural Deck and Framing Memb ``N/A`□	ers
	 □ Photo(s) - damaged or deteriorated existing struct deck □ Photo(s) - photos of the structural framing member under the damaged or deteriorated existing structural 	ers
	deck (damaged deck removed)	
Re-Ro	oofing	
Re-Roof	fing Materials □ Photo(s) - all roof covering material labels includin not limited to coverboard, insulation, membranes, ar fasteners.	_
Structur	ral Deck Fastening Y	V °
addition	neasuring tape to show spacing of existing fasteners and nal fasteners added to meet the minimum spacing ment specified in the FORTIFIED Commercial—Wind star	
	 □ Photos (Minimum of 2 locations) - structural deck corner area □ Photos (Minimum of 2 locations) - structural deck 	
	perimeter area \square Photos (Minimum of 2 locations) - structural deck	
	field area ☐ Photos (Minimum of 2 locations) - structural deck roof ridge or top of a mono-sloped roof	at the
Cover In	nstallation Y 🗆 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. 	2

¹⁶A photo is required in all areas of the roof; for example, if the roof has four corner conditions, four corner conditions are captured.

4.0 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—Wind standard.

FORTIFIE	D Comme	ercial–Wind standard.	
Openi	ng Prot	tection	
	sign Pressu select and	fill out the appropriate wind pressures.	
		7-05 and 7-10 design pressures (psf) using n terrain Exposure C or D and effective wi ft	
		Please select the method used to obtain pressures:	base
		□ ASD □ LRFD	
		Specify the wind pressures (psf):	
		Zone 4:	
		Zone 5:	
		7-16 design pressures (psf) using minimur e C or D and effective wind area of 10 sq f	
		Please select the method used to obtain pressures:	base
		□ ASD □ LRFD	
		Specify the wind pressures (psf):	
		Zone 4:	
		Zone 5:	
		zed Openings Yes ☐ If of window system:	N/A 🗆
	☐ Single	-pane	
	□ Doubl	e-pane	
	☐ Lamin	ated glass	
	☐ Impac	t-rated laminated window and frame syst	tem
	☐ Triple- system	-pane impact-rated laminated window an	d frame
indicate	that the w	ide each requirement or respond to the it vindows are in accordance with the FORTI standard.	
	combina	s and glazed openings are designed for th tions outlined in section 3.1.1.3.1 of the	e load

a hurrica	ne-prone	egions: Fill out the following if you are located in region. If you are not located in a hurricane-prone high-wind-prone region.
		s verifying the impact rating and pressure capacity e on the installed windows.
	item to ir	e box beside each requirement or respond to the ndicate that the windows are in accordance with TIFIED Commercial–Wind standard.
		Glazed openings that do not have impact-rated products installed will be protected from windborne debris by permanently or temporarily installed shutter systems such as roll-down, accordion, storm panels, fabric, or screen products.
		All openings located within 30 ft of grade, are specified as impact rated or to be protected with an impact-rated protection system. At a minimum, the specified products or systems meet ASTM E1886 cyclic pressure and ASTM E1996 large missile impact requirements.
		Glazing specified for locations 30 ft or higher above grade are rated for the design pressure and small missile impact.
	levels wit permane shall be a	s required to be protected and located at upper thout access from a porch or balcony shall have ently installed protection which, at a minimum, an impact rated product or operable from the e building. YES N/A
☐ All cor		Yes □ N/A □ doors are designed in accordance with section RTIFIED Commercial–Wind standard.
	e-Prone R ne-prone	egions: Fill out the following if you are located in region.
		mmercial doors meet both ASTM E1886 cyclic and ASTM E1996 large missile impact nents.
		s verifying the impact rating and pressure capacity e on the installed doors.
Exterior I	Personnel	Doors Yes N/A
☐ All per	sonnel do in section	ors are designed for the load combinations 3.1.1.3.1 of the FORTIFIED Commercial—Wind
	e-Prone R ne-prone	egions: Fill out the following if you are located in region.
	located 3	or personnel doors with or without windows to ft of grade meets both ASTM E1886 cyclic and ASTM E1996 large missile impact ments.

Exterior Walls and Wall Protection	⅓-in. thick wood (IR)		
☐ Wall systems are designed for the load combinations outlined in section 3.1.1.3.1 of the FORTIFIED Commercial—Wind standard	 ½-in. fiber-cement-based planking (IR) ≥½-inthick wood structural panel sheathing with vinyl 		
Hurricane-Prone Regions: Fill out the following if you are located in a hurricane-prone region.	or aluminum siding (IR)		
☐ 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).	Describe "other" wall system:		
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 	 □ Wall systems 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. □ 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 		
 ☐ 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 	(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 □ N If yes, is structural bracing (internal or external) provided and does it meet the minimum ASCE 7 standards? □ Yes □ N		
Sandwich Panels AC04. Any adhesives used shall comply with ASTM D2559 or the ICC Acceptance Criteria for Sandwich Panel Adhesives AC05. ☐ Exterior insulating finishing systems (EIFS) ¹⁷ ☐ 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.	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 \Boxed N/A Since the building is located out of a 500-year and 100-year flood		
wood structural panel sheathing with one of the following finishes:	zone, all electrical and mechanical equipment and connections necessary to operate critical systems are not exposed to flood waters.		

¹⁷EIFS that are not visibly damaged, deteriorated, chipped, cracked, 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 FORTIFIED Silver designation or certificate. EIFS that do not meet these conditions and/or that do not have at least 5 years of useful life remaining shall require repairs or replacement to be eligible for a FORTIFIED Silver designation or certificate.

Hurrican	I Connections for Backup Power Yes N/A e-Prone Regions: Fill out the following if you are located in the-prone region.
High-Wi	nd-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
5.0 F	ORTIFIED Gold
All FORT	IFIED Silver requirements must be satisfied.
to the ite	section, check the box beside each requirement or respondem to indicate that items are in accordance with the ED Commercial–Wind standard.
Contir	nuous Load Path
foundati connecti wind upl providing for wood the design	ntinuous and adequate load path from the roof to the on of the building exist. The building has positive ons from the roof to foundation as a means to transmit ift and lateral loads safely to the ground. This includes g roof-to-wall connection hardware (e.g., hurricane straps d) with the required roof uplift resistance as determined by gner or specified in the prescriptive method being used. story connections in multi-story structures have a bus load path through the wall to the foundation.
Attack	ned and Accessory Structures
Yes□	N/A □
other ve path me	enience store canopies, carports, porte cocheres or any hicle-type drive-through structures will have adequate load mbers and connections to resist the loads and load tions specified in ASCE 7 as outlined in section 3.1.1.3.1.
Backu	p Power
electrica operatio	up power shall be available and capable of powering critical I and mechanical systems that maintain vital business ns. All equipment shall be installed in accordance with the nents of Electrical Systems (Flood) described in section 3.2.3