TO: ALL BUILDING DIVISION PERSONNEL

FROM: DOUG WISE

BUILDING DIVISION DIRECTOR

PREPARED BY: BUILDING DIVISION

SUBJECT: ROOF REPLACEMENTS, ROOF COVERING SYSTEMS &

MANDATED "ROOF-TO-WALL CONNECTION" RETROFITS

PPM #: PB-O-094

ISSUE DATE
April 18, 2012

EFFECTIVE DATE
May 14, 2021

PURPOSE:

To provide technical and procedural guidelines for the permitting of roof replacements, roof-covering systems and mandated retrofits of roof-to-wall connections (when required for reroofing over wood decks).

UPDATES:

Future updates to this PPM are the responsibility of the Director of the Building Division, Deputy Building Official, Assistant Deputy Building Official, or Codes Product & Training Supervisor, under the authority of the Director of the Building Division.

AUTHORITY:

- Chapter 7 Florida Building Code-Existing Building
- Chapter 1 Administration, Palm Beach County Amendments to Florida Building Code
- Rule 61G20-3 Product Approval (Florida Administrative Code)

DEFINITIONS:

Reroofing- The process of recovering or replacing an existing roof covering.

Roof Recover- The process of installing an additional roof covering over a prepared existing roof covering without removing the existing roof covering.

Roof Covering - The covering applied to the roof deck for weather resistance, fire classification or appearance.

Roof Coating - BOAF Informal Interpretation #4760 (11/14/2006) states a "<u>Liquid-applied</u> <u>roof coating</u> is a <u>Roof Covering</u> and its installation must conform to all the provisions of section 1507.15, FBC. <u>Recovering</u> an existing roof also activates all of the applicable requirements found in Chapter 7, FBC-Existing, as it constitutes a Level 1 alteration".

Roof Repair- Reconstruction or renewal of any part of an existing roof for the purposes of its maintenance.

Note: Note more than 25 percent of the total roof area or roof section of any existing building or structure shall be *repaired*, *replaced* or *recovered* (*see **Roof Coating**) in any 12-month period unless the entire existing roofing system or roof section is replaced to conform to the requirements for new construction.

Roof Replacement. The process of removing the existing *roof covering*, repairing any damaged substrate and installing a new *roof covering*.

Roof Section- A separation or division of a roof area by existing joints, parapet walls, flashing (excluding valleys), difference of elevation (excluding hips and ridges), roof type or legal description; not including the roof area required for a proper tie-off with an existing system.

POLICY:

Permitting and installation of re-roofs, roof repairs, roof coverings, and mandated 'roof-to-wall connection' retrofits shall comply with the Florida Building Code, Florida Administrative Code and Local Administrative Amendment provisions referenced. See PPM PB-O-131 for site-built detached single-family dwelling expedited permit procedures.

PROCEDURE

The following procedures shall be adhered to for the submittal of permits for:

- (1) Re-roofing, Recovering, and Recoating
- (2) Roof Repairs
- (3) Mandated 'Roof-to-Wall connection' retrofits on existing structures (w/wood decks) whose market or appraised "improvement" value is \$300,000 or more, unless built per:
 - Florida Building Code (Effective Date: <u>3/1/2002</u>); or
 - Equivalent local Palm Beach County standards:
 - o 1989 PBC Amendments to the 1988 SBC (PBC Ordinance 89-31) Effective Date: <u>1/1/1990 Roof-to-Wall Connections</u>
 - 1997 PBC Amendments to 1997 SBC (PBC Ordinance 99-9)
 Effective Date: 5/1/1999 Roof Sheathing
- (4) New Construction When Roofing details are not included with the original plans
- A) <u>PERMIT APPLICATION</u> (submit online, or provide two physical copies of each to office) ** Required Documents for all roofing permit applications:
 - ► Aerial Depiction of Structure (per Google Earth, Pictometry, EagleView, etc.)
 - ► Roofing Installation Summary Form specific to the Reroofing material & type:
 - > Form 100 (Asphalt Shingles or Wood Shakes/Shingles)

Complete the Form and include all supplemental information required for the site-specific scope of work proposed.

> Form 200 (Concrete/Clay Tile)

Complete the Form and include all supplemental information required for the site-specific scope of work proposed.

> Form 300 (Metal Roofs)

Complete the Form and include all supplemental information required for the site-specific scope of work proposed.

> Form 400 (Flat Roofs - Replacement, Recover or Coating)

Complete the Form and include all supplemental information required for the site-specific scope of work proposed.

► State of Florida (FL) or Miami-Dade County (NOA) Product Approval(s)

Identify the specific covering or system and all details. <u>All components</u>, materials and approvals must be compatible and of the same type.

Supplemental Information that may be required for the scope of work proposed:

► 'Mandated Retrofits of Roof-to-Wall Connection' Form (existing wood deck)

*Building Contractor (CGC, CBC or CRC) must pull "B" sub-permit for "Retrofit Roof-to-Wall Connections" if <u>additional straps</u> are required

► Enhanced Fastening Specifications (Applicable to Form 400 – Flat Roofs)

Provide when base sheet or roof covering system does not meet the design uplift pressures required for perimeter roof zones. Increased fastener density *must be allowed within the product approval limitations-of-use*, and be prepared by a FL licensed P.E., Architect or Registered Roof Consultant.

Exception: Flat roofs not exceeding 400 ft² may fasten the base sheet with tin-tags spaced at 4" maximum (on center, both ways) within 4' (feet) of the roof edge.

- ▶ "Sheath-over" details specifications from a registered architect or engineer when installing plywood or other approved solid sheathing over existing spaced sheathing.
- ▶ Engineering evaluation and certification, or documentation from previously approved and permitted plans, verifying the adequacy of existing roof trusses/rafters when replacing wood shake, asphalt shingle, or similar roof coverings, with concrete or clay tile.
- ► Townhouse Individual unit re-roofing on common roof with no structural separation from the adjacent units:
 - 1. "Tie-in" Details Engineered "mating" or "tie-in" detail from a design professional or registered roof consultant (with no financial interest with company installing the roof), or a manufacturer's approved tie-in detail.
 - 2. **HOA Letter** from the homeowners association acknowledging that a partial re-roof is being installed on the building.

B) INSPECTIONS

Schedule inspections as required per Section 110.3.A.2.3 PBC Amendments to the Florida Building Code, Chapter 1-Administration

DOUG WISE

BUILDING DIVISION DIRECTOR

Supersession History

- 1. PPM# PBO-094, issued 05/19/94
- 2. PPM# PBO-094, effective 05/19/94
- 3. PPM# PBO-094, issued 07/94
- 4. PPM# PBO-094, issued 09/94
- 5. PPM# PBO-094, issued 02/95
- 6. PPM# PBO-094, issued 07/99
- 7. PPM# PBO-094, issued 12/00
- 8. PPM# PBO-094, issued 09/10
- 9. PPM# PBO-094, issued 04/18/12
- 10. PPM# PBO-094, issued 05/14/21



Qualifier Name



FORM 100 - REROOFING INSTALLATION SUMMARY FORM ASPHALT SHINGLES or WOOD SHAKES/SHINGLES

(NEW CONSTRUCTION – INCLUDE FORM 100 IF "REVISION" OR "ROOFING SUB-PERMIT" IS REQUIRED ON THE PLANS FOR A NEW STRUCTURE) SITE ADDRESS: Sloped Roof Pitch: / 12 Mean Roof Height: Ft Sloped Roof Area (SQRs): ☐ AERIAL DEPICTION of Structure is included (per Google Earth, Pictometry, EagleView, etc.) **SUPPLEMENTAL Details and Information (Identify all items related to the site-specific conditions) ☐ MANDATED RETROFITS- Existing Wood decks, include Mandated Roof-to-Wall Connection Retrofit Form ☐ Tie-In Detail (FL LICENSED ENGINEER OF ROOFING CONSULTANT) Repair (<25% ROOF AREA- INCLUDE DETAILED SCOPE-OF-WORK) ☐ Re-Nail Deck (IF STRUCTURE WAS PERMITTED PRIOR TO 5/1/99) ☐ Sheath-over (ENGINEERING DETAILS ATTACHED) ☐ Re-cover (ONE ADDITIONAL LAYER ONLY/ MUST BE ALLOWED BY PRODUCT APPROVAL) ☐ Skylights/ Vents/ etc. (REPLACEMENT ONLY) Provide FL or NOA # ☐ FLAT Roof Deck portion included in Reroofing Scope (PROVIDE FORM 400-FLAT ROOF) **UNDERLAYMENT Method & Material (Select one):** ☐ FL or NOA # (ATTACHED) C ☐ 4" Wide Strip ☐ 3 ¾" Wide Strip ☐ 2 Layers of ☐ Self-Adhered 2 Layers (Direct to Deck) (ASTM D1970) (AAMA 711) 30# Felt Synthetic U/L **NOT an Option for Over all Joints/Seams Over all Joints/Seams **NOT an Option for (ASTM Approved) Wood Shake/Shingle** (Per Table R905.1.1.1) (Per Table R905.1.1.1) Wood Shake/Shingle** 3 ¾" Wide Strip of Self-Adhered 4" Wide Strip of self-Two layers of Two layers of (ASTM D1970) ASTM D226 Type reinforced synthetic adhering polymerself-adhering flexible II or ASTM D4869 modified bitumen flashing tape per underlayment. Polymer-Modified AAMA 711 applied membrane per ASTM Type III or IV. (Provide FL/NOA). Bitumen D1970 applied over over all joints with 30# Layer to be lapped by Underlayment Layers to be lapped Applied directly to all joints with 30# felt felt on top at 19" O.C min. half width of entire roof deck **PRODUCT Specifications:** Manufacturer Product Name Material Type NOA or FL Approval # Applicant's Affidavit: I hereby certify that I have read the material on all pages of this document and have FULLY provided ALL the information requested.

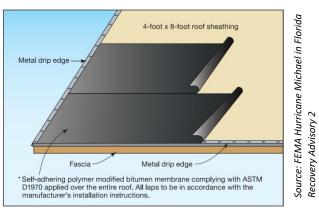
Date

Qualifier Signature



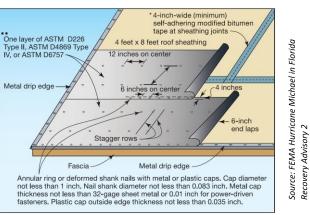


Underlayment Options (CIRCLE One)



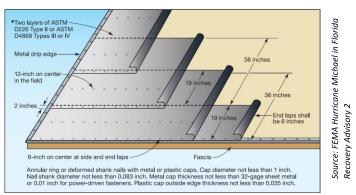
Sealed Roof Deck Option A

[NOTE: A is NOT an Option for Wood Shake/Shingle]



*3 ¾ inch AAMA 711 flashing tape is also permitted.

Sealed Roof Deck Option B or C



*Synthetic underlayment meeting the performance requirements specified in Option E may also be used.

Sealed Roof Deck Option D or E

[NOTE: E is NOT an Option for Wood Shake/Shingle]

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^{**}Synthetic underlayment meeting the performance requirements specified in Option E may also be used.





FORM 200 - REROOFING INSTALLATION SUMMARY FORM CONCRETE or CLAY TILE

(NEW CONSTRUCTION – INCLUI	DE FORM 100 IF "F	EVISION" OR "R	OOFING SUB-PE	ERMIT" IS REQUIRED ON	THE PLAN	IS FOR A NEW STRUCTURE)
SITE ADDRESS:						<u>-</u>
Sloped Roof Pitch:	/ 12*	Mean Ro	of Height:	Ft	Sloped	d Roof Area (SQRs):
Roof Design:	☐ Gable Ro	of	Desi	gn Pressures:		LPZ:
	\square Hip Roof		(Obtaine	ed from Tables on Page	2)	HPZ:
☐ <u>AERIAL DEPICTION</u>	of Structure i	s included (¡	per Google	Earth, Pictometr	y, Eagle	eView, etc.)
**SUPPLEMENTAL D	etails and In	formation (I	dentify all i	items related to	the site	-specific conditions)
☐ Tie-In Detail (DESIG☐ Re-Nail Deck (IF STE	N PROFESSIONAL (RUCTURE WAS PER PTC. (<u>REPLACEME</u>	or ROOFING CON MITTED PRIOR T NT ONLY) Pro	ISULTANT) TO 5/1/99) Invide FL or I	Repair (<25% ROOF Battens (Engineerin NOA #	AREA- INC	CLUDE DETAILED SCOPE-OF-WORK) required if fasteners not in Approval) (ATTACHED)
BASE SHEET/CAP SH	EET Specifica	ations: <u>(Ide</u>	ntify One S	<u>ystem)</u>		
	ouble Ply				☐ Single Ply	
Base Sheet Type:		f-Adhered	Cap Sheet	□ Other		<u>Direct-to-Deck</u> elf-Adhered
☐ Mechanically Attached ☐ Heat Applied ☐ Cold Applied ☐ Hot Mop Type: ☐ Self-Adhered FL or NOA# FL or NOA# FL or NOA# (EXPOSURE NOT TO EXCEED 90 DAYS.) System: System:						
ROOF TILE Specificat	ions:					
<u>Manufacturer</u>		Product Na	ame_	Material Typ	<u>oe</u>	NOA or FL Approval #
ROOF TILE ATTACHM	ENT Details	(Attachmen	it details <mark>S</mark>	HALL be identifie	<mark>d/circle</mark>	<mark>d</mark> in Product Approval)
MECHANICA Per: ☐ FRSA or ☐		FL or NOA#		OHESIVE *		MORTAR * FL or NOA#
☐# Ring Shank Na ☐# Smooth Shank I ☐# 8 Screws		Paddy: □ Single □ Double		e:eight (g): Resistance (ft-lbf):	Allowable Moment Resistance: (ft-lbf) Per: □ FRSA or □ NOA
* Slopes over 6/12 req	uire additiona	l mechanical	fasteners (p	er FL/NOA – FRSA	Manual	or RAS 120, as applicable)
	-	-		material on all pa	ages of	this document and have
FULLY provided ALL th	<u>e information</u>	requested.	<u>.</u>			
Qualifier Name			fier Signatu	re Ilm Beach, FL 33		Date

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TABLE 2 GC
Gable Roof – ASCE 7-16
Exposure C – Tile Factor = 1.407 ft³

Expos	ure C – II	ie racioi	- 1.407
	Mean		170
Roof Slopes	Roof Height (ft)	Roof Zones	Ma (ft-lbf)
		LPZ	36.1
	0-15	HPZ	41.5
	20	LPZ	38.2
	20	HPZ	44.0
	20	LPZ	41.6
Less than	30	HPZ	47.9
unan 4.5:12	40	LPZ	44.2
	40	HPZ	50.8
	50	LPZ	46.3
	50	HPZ	53.2
	60	LPZ	48.0
	60	HPZ	55.2
	0.45	LPZ	31.6
	0-15	HPZ	41.5
	00	LPZ	33.4
	20	HPZ	44.0
	00	LPZ	36.4
4.5:12 to	30	HPZ	47.9
less than 6:12	40	LPZ	38.7
	40	HPZ	50.8
	50	LPZ	40.5
	50	HPZ	53.2
	00	LPZ	42.0
	60	HPZ	55.2
	0.45	LPZ	27.1
	0-15	HPZ	37.9
	20	LPZ	26.8
	20	HPZ	40.1
	20	LPZ	31.2
	30	HPZ	43.7
6:12 to	40	LPZ	33.1
12:12	40	HPZ	46.4
	F0	LPZ	34.7
	50	HPZ	48.6
	60	LPZ	36.0

LPZ = Low Pressure Zones 1, 2e, 2n, & 2r for Gable Roofs HPZ = High Pressure Zones 3e & 3r for Gable Roofs

TABLE 2 HC
Hip Roof – ASCE 7-16
Exposure C – Tile Factor = 1.407 ft³

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LPZ - Low Pressure Zones 1, 2e & 2r for Hip Roofs HPZ - High Pressure Zones 3 for Hip Roofs

 $h/B \le 0.80$ values used where applicable (most conservative)

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^{**}FOR MEAN ROOF HEIGHTS OVER 60', DESIGN PRESSURES MUST BE DETERMINED BY DESIGN PROFESSIONAL





FORM 300 - REROOFING INSTALLATION SUMMARY FORM METAL ROOFING

(NEW CONSTRUCTION – INCLUDE	FORM 300	IF "REVISION" OR "ROC	FING SUB-PER	MIT" IS REQUIRED	ON THE PLANS FOR	A NEW ST	RUCTURE)
SITE ADDRESS:							<u>-</u>
Sloped Roof Pitch:	_/12	Mean Ro	oof Height:	Ft	Sloped Roof	Area (SQRs):
☐ <u>AERIAL DEPICTION</u> of	f Structu	re is included (pe	er Google E	arth, Pictom	etry, EagleView	ı, etc.)	
☐ DESIGN WIND UPLIFT	Γ Pressur	re:	(psf)				
**SUPPLEMENTAL D	etails an	d Information (Id	dentify all i	tems related	to the site-spe	cific co	enditions)
☐ MANDATED RET	ROFITS- E	Existing Wood de	cks, include	Mandated I	Roof-to-Wall Co	onnecti	on Retrofit Form
☐ Tie-In Detail (FL LI	CENSED ENG	GINEER or ROOFING CO	NSULTANT)	☐ Repair (<2	5% ROOF AREA- INCL	UDE DETA	AILED SCOPE-OF-WORK)
☐ Re-Nail Deck (IF S	TRUCTURE V	WAS PERMITTED PRIOR	TO 5/1/99)	☐ Battens (E	NGINEERING DETAIL	S ATTACH	ED)
☐ Skylights/ Vents/	etc. (REP	LACEMENT ONLY) Pro	ovide FL or	NOA #			(ATTACHED)
☐ FLAT Roof Deck p							
UNDERLAYMENT Metho	od & Mat	terial (Select one	Method):	☐ FL or	NOA #		(ATTACHED)
<u>A</u>		<u>B</u>	<u>C</u>		<u>D</u>		<u>E</u>
☐ <u>Self-Adhered</u>	□ <u>4" \</u>	Wide Strip	□ <u>3 ¾"</u>	Wide Strip	☐ 2 Layers o	<u>f</u>	□ 2 Layers
(<u>Direct to Deck</u>)		<u>ΓΜ D1970)</u>		MA 711)	<u>30# Felt</u>		Synthetic U/L
NOT an Option for Wood Shake/Shingle		all Joints/Seams able R905.1.1.1)		l Joints/Seams ble R905.1.1.1)	(ASTM Appr	oved)	**NOT an Option for Wood Shake/Shingle**
Self –Adhered		ide Strip of self-		3 3/4" Wide Strip of Two layer			Two layers of
(ASTM D1970)		ng polymer-		self-adhering flexible ASTM D226			reinforced synthetic
Polymer-Modified		ied bitumen rane per ASTM		tape per 711 applied	or ASTM I Type III on		underlayment. (Provide FL/NOA).
Bitumen Underlayment Applied directly to entire		applied over all		joints with 30#	Layers to be		Layer to be lapped by
roof deck		with 30# felt on top	felt on to		at 19" O.C		min. half width of rolls.
METAL PANEL SPECIFICA	ATIONS:						
<u>Manufacturer</u>		Product Na	<u>ame</u>	<u>Panel Type</u>		<u>FL</u>	or NOA Approval #
METAL PANEL ATTACHN	<u>/IENT</u> : (А	ttachment detail	ls <mark>SHALL be</mark>	e identified/	<mark>circled</mark> in Produ	ıct App	roval)
Maximum Allowed Pre	ssure (FL/	/NOA)	<u>FASTE</u>	NER Type		FAST	ENER/CLIP Spacing
		☐ Fasten			Clips*		
(ps	sf)	*Screws (s	size & quan	tity):			(inches)
Applicant's Affidavit: I	hereby c	ertify that I have	read the r	naterial on a	ll nages of this	docum	ent and have
FULLY provided ALL the					n pages or time		<u> </u>
Qualifier Name		Quali 2300 N. Jog Roa	fier Signatı ad, West Pa		Dat L 33411	e	

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SIMPLIFIED ROOF LIPLIFT CHART FOR ROOFING APPLICATIONS

This simplified chart represents the worse-case wind pressures for the various roof slopes and heights. This chart is based on a Tributary Area = 10 SF which is required for roofing applications. If the roof height is less than 30 feet, but not exactly 15, 20, or 25 feet, you will need to go to the next higher roof height. If your roof is higher than 30 feet, these charts do not apply. Refer to Roof Chart Diagrams on Page 1 for Roof Zone Locations.

	MEAN ROOF HEIGHT = 15 FEET												
				Gable Roof	Hip Roof								
Flat	Roof	1.51	to 4:12	4.1 to 6:12	6.1 to 12:12	1.51 to 4:12		4.1 to 6:12					
Positive*	15.4/38.0	Posit	ive 23.2	Positive 23.2	Positive 34.7	Positive 28.3		Positive 28.3					
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof					
1	-60.5	1, 2e	-70.1	-54	-63.7	1	-63.7	-50.8					
1'	-34.8	2n & 2r	-102	-86.2	-70.1	2e	-89.4	-70.1					
2	-79.8	3e	-102	-86.2	-86.7	2r	-83	-70.1					
3*	-109	3r	-102	-102	-70.1	3	-89.4	-70.1					

MEAN ROOF HEIGHT = 20 FEET

				Gable Roof		Hip Roof			
Flat	Roof	1.51	to 4:12	4.1 to 6:12	6.1 to 12:12	1.51 t	o 4:12	4.1 to 6:12	
Positive*	16.4/40.3	Positi	ve 24.6	Positive 24.6	Positive 36.9	Positive 30.1		Positive 30.1	
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof	
1	-64.2	1, 2e	-74.5	-57.4	-67.7	1	-67.6	-54	
1'	-36.9	2n & 2r	-109	-91.5	-74.5	2e	-95	-74.5	
2	-84.8	3e	-109	-91.5	-92.1	2r	-88.1	-74.5	
3*	-116	3r	-129	-108	-74.5	3	-95	-74.5	

MEAN ROOF HEIGHT = 25 FEET

El. 4	. D C			Gable Roof		Hip Roof						
riat	Roof	1.51	to 4:12	4.1 to 6:12	6.1 to 12:12	1.51 t	to 4:12	4.1 to 6:12				
Positive*	17.2/42.3	Positi	ive 25.8	Positive 25.8	Positive 38.7	Positive 31.5		Positive 31.5				
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof				
1	-67.3	1, 2e	-78.1	-60.2	-70.9	1	-70.9	-58.6				
1'	-38.7	2n & 2r	-114	-96	-78.1	2e	-99.6	-78.1				
2	-88.8	3e	-114	-96	-96.6	2r	-92.4	-78.1				
3*	-121	3r	-135	-113	-78.1	3	-99.6	-78.1				

MEAN ROOF HEIGHT = 30 FEET

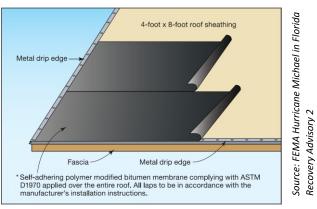
El .	D. C			Gable Roof	Hip Roof			
Flat	Roof	1.51	to 4:12	4.1 to 6:12	6.1 to 12:12	1.51 t	to 4:12	4.1 to 6:12
Positive*	17.9/43.9	Positi	ive 26.8	Positive 26.8	Positive 40.2	Positive 32.8		Positive 32.8
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof
1	-70	1, 2e	-81.1	-62.6	-73.7	1	-73.7	-58.8
1'	-40.2	2n & 2r	-118	-99.8	-81.1	2e	-103	-81.1
2	-92.3	3e	-118	-99.8	-100	2r	-96	-81.1
3*	-126	3r	-141	-118	-81.1	3	-103	-81.1

*If Parapet >= 3Ft occurs around entire building use the same Zone 2 pressure for Zone 3 and use the higher positive pressure shown.



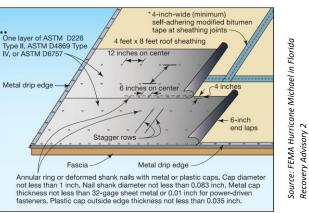


Underlayment Options (CIRCLE One)



Sealed Roof Deck Option A

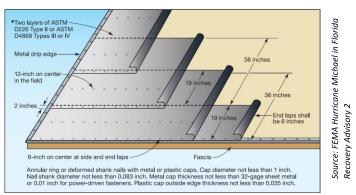
[NOTE: A is NOT an Option for Wood Shake/Shingle]



*3 ¾ inch AAMA 711 flashing tape is also permitted.

**Synthetic underlayment meeting the performance requirements specified in Option E may also be used.

Sealed Roof Deck Option B or C



*Synthetic underlayment meeting the performance requirements specified in Option E may also be used.

Sealed Roof Deck Option D or E

[NOTE: E is NOT an Option for Wood Shake/Shingle]

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FORM 400 - REROOFING INSTALLATION SUMMARY FORM FLAT ROOFING

(NEW CONSTRUCTION – INCLUDE FORM 400 IF "REVISION" OR "ROOFING SUB-PERMIT" IS REQUIRED ON THE PLANS FOR A NEW STRUCTURE)

SITE ADDRESS:				
EXISTING Flat Roof System:	Roof A	rea (SQRs):	Roof Height:	(ft)
☐ <u>AERIAL DEPICTION</u> of Structure is included (per Go	ogle Earth	, Pictometry, E	agleView, etc.)	
DESIGN WIND UPLIFT Pressure: *Field (Zone 1):	(psf) * <u>I</u>	Perimeter/Corr	ner (Zones 2,3):	(psf)
TESTS/ REPORTS/ CALCUATIONS ☐ Roof Moisture Survey and Report (PREPARED BY AN A PULL-Test (PERFORMED BY AN APPROVED TESTING AGENCY) ☐ Enhanced Fastening Specifications (FL ENGINEER, AR EXCEPTION: Flat roofs not over 400 ft², maximum 4" o roof edges may be specified by the contractor or owner-	CHITECT or RO	OFING CONSULTANT		
**SUPPLEMENTAL DETAILs and Information (Ident	ify all item	s related to the	e site-specific condit	ions)
 □ MANDATED RETROFITS- Existing Wood decks, inc □ Tie-In Detail (FL LICENSED ENGINEER OF ROOFING CONSULTAN □ Re-Nail Deck (IF STRUCTURE WAS PERMITTED PRIOR TO 5/1/5 □ Recover/ Roof-over (ALL MATERIALS AND COMPONENTS N □ Skylights/ Vents/ etc. (REPLACEMENT ONLY) Provide 	it) □ Repai 99) □ Sheat iust be comp	ir (<25% roof area :h-Over (engineei atible with existin	-INCLUDE DETAILED SCOPE- RING DETAILS ATTACHED) IG MATERIALS)	OF-WORK)
FLAT ROOF SYSTEM Specifications:		··		CHEBy
 BUILT-UP ROOF System/MODIFIED Bitumen System A. Design Uplift Pressure (FROM ATTACHED CHART): B. Max Allowable Uplift Pressure (PER FL/ NOA): C. FL or NOA# Number: D. System & Components (Identify in Product App (ie: Insulation Layers/ Cover Board/ Ply Sheet) 	roval or Provi	(If A>B: See E		nents Above)
□ SINGLE-Ply System A. Design Pressure (SEE ATTACHED CHART): B. Max Allowable Pressure (PER FL/ NOA): C. FL or NOA# Number: D. System # (Identify in Product Approval): E. Insulation Layer(s): F. Cover Board: G. Other:		(If A>B: See E		nts Above)
ROOF COATING — FL/NOA #: Existing Roof Assembly: Proof of Material Compatibility: * Affidavit: I hereby certify that I have read the material on this	System:			
	ature		 Date	

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SIMPLIFIED ROOF UPLIFT CHART FOR ROOFING APPLICATIONS

This simplified chart represents the worse-case wind pressures for the various roof slopes and heights. This chart is based on a Tributary Area = 10 SF which is required for roofing applications. If the roof height is less than 30 feet, but not exactly 15, 20, or 25 feet, you will need to go to the next higher roof height. If your roof is higher than 30 feet, these charts do not apply. Refer to Roof Chart Diagrams on Page 1 for Roof Zone Locations.

	MEAN ROOF HEIGHT = 15 FEET											
				Gable Roof		Hip Roof						
Flat	Flat Roof		to 4:12	4.1 to 6:12	6.1 to 12:12	1.51 to 4:12		4.1 to 6:12				
Positive*	15.4/38.0	Posit	ive 23.2	Positive 23.2	Positive 34.7	Positive 28.3		Positive 28.3				
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof				
1	-60.5	1, 2e	-70.1	-54	-63.7	1	-63.7	-50.8				
1'	-34.8	2n & 2r	-102	-86.2	-70.1	2e	-89.4	-70.1				
2	-79.8	3e	-102	-86.2	-86.7	2r	-83	-70.1				
3*	-109	3r	-102	-102	-70.1	3	-89.4	-70.1				

MEAN ROOF HEIGHT = 20 FEET

				Gable Roof		Hip Roof			
Flat	Roof	1.51	to 4:12	4.1 to 6:12	6.1 to 12:12	1.51 t	to 4:12	4.1 to 6:12	
Positive*	16.4/40.3	Positi	ve 24.6	Positive 24.6	Positive 36.9	Positive 30.1		Positive 30.1	
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof	
1	-64.2	1, 2e	-74.5	-57.4	-67.7	1	-67.6	-54	
1'	-36.9	2n & 2r	-109	-91.5	-74.5	2e	-95	-74.5	
2	-84.8	3e	-109	-91.5	-92.1	2r	-88.1	-74.5	
3*	-116	3r	-129	-108	-74.5	3	-95	-74.5	

$\underline{\mathsf{MEAN}}\ \mathsf{ROOF}\ \mathsf{HEIGHT} = 25\ \mathsf{FEET}$

El. 4	D C			Gable Roof	Hip Roof			
Flat	Roof	1.51	to 4:12	4.1 to 6:12	6.1 to 12:12	1.51 t	to 4:12	4.1 to 6:12
Positive*	17.2/42.3	Positi	ve 25.8	Positive 25.8	Positive 38.7	Positive 31.5		Positive 31.5
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof
1	-67.3	1, 2e	-78.1	-60.2	-70.9	1	-70.9	-58.6
1'	-38.7	2n & 2r	-114	-96	-78.1	2e	-99.6	-78.1
2	-88.8	3e	-114	-96	-96.6	2r	-92.4	-78.1
3*	-121	3r	-135	-113	-78.1	3	-99.6	-78.1

MEAN ROOF HEIGHT = 30 FEET

Flat Roof		Gable Roof				Hip Roof		
		1.51 to 4:12		4.1 to 6:12	6.1 to 12:12	1.51 to 4:12		4.1 to 6:12
Positive*	17.9/43.9	Positive 26.8		Positive 26.8	Positive 40.2	Positive 32.8		Positive 32.8
Zone		Zone	Roof	Roof	Roof	Zone	Roof	Roof
1	-70	1, 2e	-81.1	-62.6	-73.7	1	-73.7	-58.8
1'	-40.2	2n & 2r	-118	-99.8	-81.1	2e	-103	-81.1
2	-92.3	3e	-118	-99.8	-100	2r	-96	-81.1
3*	-126	3r	-141	-118	-81.1	3	-103	-81.1

*If Parapet >= 3Ft occurs around entire building use the same Zone 2 pressure for Zone 3 and use the higher positive pressure shown.



Mandated Retrofits of Roof-to-Wall Connection

THIS FORM MUST BE FILLED OUT AND INCLUDED WITH ALL RE-ROOFING APPLICATIONS FOR EXISTING STRUCTURES WITH WOOD ROOF DECKS.

Α	ldress:
	r the purpose of this document, "Sections" as cited below are from the Florida Building Code-Existing Building, 7 [™] ition (2020) Section 706.8, unless otherwise noted.
re	hen the roof covering on an existing structure with a wood roof deck is removed and placedthe structure shall be evaluated for mandated retrofits of the roof-to-wall innections in accordance with Section 706.8.
1.	Was permit for the original construction of the building applied for on or after January 1, 1990? ☐ Yes - The application date was on or after January 1, 1990. *** Proceed to signature and permit submittal. (Attach documentation verifying the application date) ☐ No - The application date was prior to January 1, 1990. *** Continue with questions and details below.
2.	Applicant must provide one of the following to document the value of the building.
	 Copy of current home insurance summary sheet. Copy of the latest Tax Bill or Property Appraiser Valuation for the structure (the <i>Appraised Improvement Value</i> determines the threshold amount).
3.	Based on the documentation provided, is the value of the Building \$300,000 or more? □ No - Building is valued at less than \$300,000 ** Proceed to signature and permit submittal. □ Yes - Building valuation exceeds \$300,000 ** Enhanced Roof-to-Wall connections are required unless meeting one of the following exceptions:
	 ☐ Exception 1: Cost of "evaluation and roof-to-wall connections" at gable ends or all corners will exceed 15% of the cost of the roof replacement (attach professional estimate). ☐ Exception 2: Analysis submitted by FL Design Professional validates the existing roof-to-wall load path connections are compliant for the applicable wind loads in Table 706.8.1.
cc	OMPLIANCE Options to Complete Mandated Retrofits (Identify one)
	 □ Prescriptive Retrofit Procedures. • Roof-to-wall connections will be enhanced using the prescriptive measures in Sections 706.8.1.3 – 7. • Priority of work shall be determined by Section 706.8.1.7. • Details provided on page 2 □ Professional Design • Provide engineered design plan, and identify details on page 2 If enhanced roof to wall connections are required, the following page (Connection Details) must also be completed and submitted along with a roof plan of the building, including span distances and gable/ hip locations identified. Plan should indicate areas to be retrofitted, connectors to be used, and fastener requirements. Please include product approvals for all the connectors specified.
Qι	alifier or Owner/Builder Name (Print) Qualifier or Owner/Builder Signature Date

Exterior Wall Construction:
□ Wood
□ CBS
☐ Other explain:
Roof Geometry:
□ Gable
□ Hip
☐ Flat ☐ Other explain:
Existing Anchors
Identify existing straps/anchors and fasteners (quantity & size) at areas proposed for retrofit. Strap/Anchor: Fasteners:
Determine if Existing Straps were manufactured and rated for four (4) fasteners at each end.
 ☐ YES - Existing Straps were manufactured and rated for four (4) fasteners at each end ○ Specify additional fastener size and quantity:
NOTE: A Roofing Contractor (CCC) may install the additional fasteners to the existing straps – Details shall be included in primary Reroof permit scope of work.
□ NO - Existing Straps were not manufactured and rated for four (4) fasteners at each end ○ Retrofit straps/anchors shall be added and installed (CGC, CBC or CRC required)
NOTE : Installation of new straps/ anchors is outside the scope of a Roofing Contractor (CCC), and requires an appropriately licensed <i>building</i> Contractor (CGC, CBC or CRC
Retrofit Straps/ Anchors (Minimum uplift capacity of 500 pounds each, unless designed by FL P.E.)
"B" Subpermit ("Mandated Retrofits, GC required") shall be added to the primary Reroof per
Manufacturer:
Type/ Model:
Fasteners: (Nails, Screws, Bolts / Size / Quantity / Minimum Embedment / Spacing / etc.)
, , , , , , ,
Qualifier or Owner/Builder Name (Print) Qualifier or Owner/Builder Signature Date