### Reroof Checklist

Yes	No	Requirements						
		Completed Permit Application						
		Contractor License and Insurance Information Current						
Notice of Commencement if the job is valued over \$2500								
		A copy of the contract between the owner and the contractor.						
Property Records Card, which can be located at the Lake County Property Appraiser's website at www.lakecopropappr.com           A roofing plan showing all the pitches and the product approval number for each different pitch (see package for an example) PLYWOOD THICKNESS MUST BE INDICATED.								
							Product approval for each different product being installed	
		Manufacturer installation specifications that is specific to the job being proposed.						
		If this a roof-over, where the existing shingles are not removed, the product approval information must indicate that the shingles were tested in this manner. If the product approval information does not indicate installation over existing shingles, then you will need local product approval and an engineer will need to provide evidence that the						
		installation will provide the same level of protection as the product approval for installation over a wood deck.						
		Please indicate the type of underlayment to be installed per 905.1.1.1 FBCR please see attached code section at						
		the end of this checklist						

Instructions: Be sure that you have submitted all the items on the list above. All reroof permits will be reviewed by the Building Official or Plans examiner prior to submittal.

The inspection request: We ask that you email your inspection to <u>INSPECTIONREQUEST@ALPHA-INSPECTIONS.NET</u> Please send the request in the following format: Address (156 S. Lake Ave), Type of inspection (Final), Permit Number (123-09-10B), Contact Number of someone that can be contacted the day of the inspection in case there is a problem with either access to the job or a simple problem with the installation. Typical inspection for a reroof are a nailing, dry-in and flashing and a final inspection. The dry-in inspection will consist of felt properly laid and nailed along with flashing and drip edge properly installed, lapped and nailed along with any other roof penetrations. Then a final inspection, which will consist of a visual inspection of the installation as well as a check of the sealing of the starter course around the perimeter of the building as well as any specific requirements by the manufacturer. Metal roofs are quite different and inspections will be dictated by the manufacturer's specifications. You may also use pictures along with an affidavit and skip the nailing and dryin inspections.

Inspection Items: Typical items that get turned down on an reroof inspection include, but are not limited to the following items.

- 1. Drip edge not properly lapped or fastened.
- 2. Felt paper run over the drip edge and not properly sealed.
- 3. Starter course not properly sealed between starter and first shingle. This includes the entire perimeter including the rake. We inspect this by gently lifting up on the edge of the first course of shingle. This shingle should be hard to lift up, but if it comes up very easily, the job will be turned down.
- 4. Roof penetrations, including the ridge vent not properly sealed. This includes the fasteners required to attach the penetrations to the roof.
- 5. Blocking required along edges of penetrations exceeding 144 square inches. This is a very common item for off ridge vents. Please be sure to retrofit blocking if not already installed.
- 6. Improper nailing of deck or over driven fasteners.
- 7. Felt fastener pattern not correct. The rule of thumb is you should not be able to place a 12" x 12" square anywhere on the roof deck without touching a fastener. Please see the permit tech for a fastener schedule.
- 8. No flashing in areas where there is a change in pitch.
- 9. Shingles installed that do not meet pitch requirements (too low of a pitch).
- 10. Shingles trimmed too much or not enough. Follow mfg specs that require anywhere from a <sup>3/8"</sup> to <sup>1</sup>/4" overhang over the drip edge.
- 11. Permit card must be posted on the job and visible from the road as soon as work is started.
- 12. For roofs with affidavit, incomplete pictures not showing all phases of work...

inspect	e An Inspect ionrequest@ ispections.ne	∂alpha-	Peri Applic		In addition to the may be require approval from of Federal agencie commencing w	d to receive other State of es prior to		Permit Nu	mber
You must su	bmit 3 copie	s of this form	. Only 1 has	Project Addre					
be notarized				Project Descr	ription	Reroof			
Property ID Key	/Number			Parcel Numbe	r	Not Required	ł		
Owner's Name		Mailing Addres	S		City, State, Zip	<u> </u>		Telephone	
General Contrac	ctor	Mailing Addres	S		City, State, Zip			Telephone	
Construction Co	ontractor	Mailing Addres	S		City, State, Zip	1		Telephone	
Not Requir					0			<u></u>	
Electrical Contra Not Requir		Mailing Addres	iS		City, State, Zip	1		Telephone	
Plumbing Contra Not Requir	actor	Mailing Addres	S		City, State, Zip	1		Telephone	
HVAC Contracto		Mailing Addres	S		City, State, Zip	1		Telephone	
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Roofing Contrac	otor )	Mailing Addres	S		City, State, Zip			Telephone	
Legal Description	n	Not Required							
Bonding Compa	any	Not Required							
Bonding Compa	ny Address	Not Required							
Architect's Nam	e	Not Required							
Architect's Addr	ess	Not Required							
				Project In		I			
Sul	odivision Na	me	Phase	Lot No.	Model	Elevation	Lot Area	Imperviou	us Surface Ratio
	1		Not Required	Not Required	Not Required	Not Required	Not Required	Not I	Required
Flood Zone	Not Required		Cathaal	ka Duavidad	aver Dami	no d <i>(ft</i> )			
Front	Not Required	Rear	SetDac Not Required	ks Provided Side	over Requi	Corner	Not Required	Street Sic	e Not Required
Proj			rea	Electrical	Hvac		iter		Meter
New		Living	Not Required	Service Size	Туре	Municipal		Size	Not Required
Alteration		Garage		Not	Not Required	Well			
Addition	$\square$	Porch(s)		Required		iency		Plumbi	ng
Repair		Other			Airhandler	Not Required	Sewer		
Other Gara		Total	Not Required		Condenser Value	Not Required	Septic	de In Effe	oct
Attached					value				
Detached			equired				2	020 FB	
Applicant Sigr						Date			
obtain financing, the building set	consult with yo backs have bee apliance with se	our lender or an In met or that the etbacks and non	attorney before re e structure does ne -encroachment of	cording your No ot encroach on a	tice of Commen an easement.	icement. The is The owner and/	ssuance of a bu	ilding permit ve the sole re	
	-	_, 20			ne this		day o	of	who
identificatio (Seal) Notary Put	is personally known to me or has producedas identification and who didor did nottake an oath. (Seal) Notary Public								
White Copy O	ffice			Yellow Co	py Property App	oraiser		Pink Copy O	wner

### **OWNER/BUILDER Disclosure Statement**

F.S. Chapter 489, CONTRACTING; PART 1 CONSTRUCTION CONTRACTING (SS 489.103)

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor even though you do not have a license. You must supervise the construction yourself. You may build or improve a commercial building at a cost of \$25,000 or less. The building must be for your own use and occupancy. It may not be built for sale or lease. If you sell or lease a building you have built yourself within 1 year after the construction is complete, the law will presume that you built it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person as your contractor. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. **Any person working on your building who is not licensed must work under your supervision and must be employed by you, which means that you must deduct FICA and withholding tax and provide worker's compensation for that employee, all as prescribed by law.** Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

# Any person who aids and abets unlicensed contractors or subcontractors will face imposed penalties as provided by law.

Section 6. Subsection (1) of Section 455.228 Florida Statutes F.S. 455.228 Unlicensed practice of a profession; cease and desist notice; civil penalty; enforcement.--- (1) When the department has probable cause to believe that any person not licensed by the department or the appropriate regulatory board within the department or the appropriate regulatory board within the department has violated any provision of this chapter or any stature that relates to the practice of a profession regulated by the department, or any rule adopted pursuant thereto, the department may issue and deliver to such person a notice to cease and desist from such violation. In addition, the department may issue and deliver a notice to cease and desist to any person who aids and abets the unlicensed practice of a profession by employing such unlicensed person. For the purpose of enforcing a cease and desist order, the department may file a proceeding in the mane of the state seeking issuance of an injunction or a writ of mandamus against any person who violates any provisions of such order. In addition to the foregoing remedies, the department may impose an administrative penalty not to exceed \$5,000.00 per incident, pursuant to F.S. 120.58, it shall be entitled to collect its attorney's fees and costs, together with any cost of collection. This Day of \_\_\_\_\_The Year\_\_\_\_\_, I, The Undersigned, Have Read The Preceding And Understand The Responsibility Of Acting As My Own Contractor, And Having Been Noticed Of The Above Florida Statutes, Will Abide By The Laws Governing Lake County And The State Of Florida. I further state that I have the knowledge and ability to do the work proposed, and I assume full responsibility for familiarizing myself with all Lake County Codes and building regulations. In the event a building inspector requires corrections to be made, I will make such corrections and call for a re-inspection before proceeding. I understand the Building Division is not responsible for instructing me on what to do. I understand I may subject myself to code enforcement action by not requesting and obtaining. Final Inspection Approval prior to engaging in the use of the proposed development. Signature of Owner/Builder

State of Florida County of Lake I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared\_\_\_\_\_\_\_who is personally known to me or who has produced\_\_\_\_\_\_as identification and who did/did not take an oath.

Witness my hand and official seal this \_\_\_\_\_\_day of \_\_\_\_\_\_, 19\_\_\_\_\_.

Notary	Pul	olic
1,0,000	1 010	

After recording return to:

Permit No:	
Tax Folio or Alternate Key #:	

### NOTICE OF COMMENCEMENT Astatula, Clermont, Eustis, Fruitland Park, Howey in the Hills, Groveland, Lady Lake, Lake County, Leesburg, Mascotte, Minneola, Montverde, Mount Dora, Tavares, Umatilla

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1.	Description of property:	(legal description of the pr	roperty, and street address i	f available)		
		Street Address:				
2.	General description of improve	ement:				
3.	Owner's Information:	Name:				
		Address:				
		Interest in Property:	simple titleholder (if other th			
			simple titlenoider (ir other tr	ian owner):		
4.	Contractor Information:	Name:				
ч.	Contractor mormation.	Address:				
		Telephone No.	Fa	ax No. (Opt.)		
5.	Surety Information:	Name:				
		Address:				
		Telephone No Amount of Bond:	Fa	ax No. (Opt.)		
6.	Lender Information:					
0.	Londor mornation.					
		Telephone No	Fa	ax No. (Opt.)		
7.	Persons within the State of Flo served as provided by Section	713.13(1)(a)7.,Florida Statute	es:	-		
		Address:				
		Telephone No.	Fa	ax No. (Opt.)		
8.	In addition to himself or hersel					
	to receive a copy of the followi	ing Lienor's Notice as Provide	d in Section <u>713.13 (</u> 1) (b), I	Florida Statutes:		
		Address:				
		Telephone No.	Fa	ax No. (Opt.)		
9.	Expiration date of notice of condition date is specified)			of recording unles	sa	
PA) PR(	RNING TO OWNER: ANY PAYMEN (MENTS UNDER CHAPTER 713, P. OPERTY. A NOTICE OF COMMENC ANCING, CONSULT YOUR LENDE	ART I, SECTION <u>713.13</u> , FLORID CEMENT MUST BE RECORDED /	A STATUTES, AND CAN RES AND POSTED ON THE JOB SI	ULT IN YOUR PAYIN TE BEFORE THE FI	NG TWICE FOR IMPROVEM	IENTS TO YOUR INTEND TO OBTAIN

Signature of Owner or Owner's Authorized Officer/Director /Partner /Manager

Printed Name & Signatory's Title/Office
\_, 20\_\_\_\_, by\_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_day of \_\_\_\_

who is personally known to me or has produced\_

as identification and vho did or diid not take an oath.

Signature of Notary Public - State of Florida

Print, type or Stamp Commissioned Name of Notary Public

Verification pursuant to Section 92.525, Florida Statutes

Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

### **Reroof Plan**

- It's very important for both the review and the inspection to have a good roofing plan. Below is a sample of what we expect to be submitted. Important to us is the <u>pitch of the roof</u>, the <u>existing substrate (1/2 plywood, 15/32 OSB, 1x12's etc)</u>, the proposed material to be installed along with the appropriate <u>FL product approval number</u>. Please note that different pitch roofs may require different products, so please be sure to list all proposed FL product approval numbers.
- 2. Additional information to be submitted include any material that is being replaced such as rotten roof decking, rotten fascia boards and any trusses that need to be repaired. Please note that this information will be helpful to determine if the scope of work exceeds what is allowed by a roofing contractor. Structural repairs that require engineering will also require a licensed general contractor.
- 3. Please also note that areas that require flashing should also be notated on the plans as to the type and thickness. Please see sample plan for more details.



### LICENSED ROOFING CONTRACTORS ONLY

## Reroofing Inspection Affidavit Nailing, Sheathing, Dry-In & Flashing

### **REROOF ONLY – NOT NEW CONSTRUCTION**

Residential\*, or Roofing Contractor, Engineer, Architect, or F.S. Chapter 468 Building Inspector, I

Address:

\_\_\_\_\_, as a(n) General\*, Building\*,

Permit No:

L

nailing, dry-in, and flashings at the a with the attached scope of work, com	ing information is true and accurate and that the sheathing, bove referenced address/lot have been installed in accordance aplying with all applicable codes and standards. Based upon my installation was done in conformance to the Hurricane Mitigation er 553.844).
License #:	
Company/Contractor:	
Contractor's Signature: (Must be signed by license holder)	Date:
<u>A final</u>	roofing inspection is required:
roofing inspection along with digi number or address number <u>cle</u>	It must be provided at the job site at the time of the final tal photographs of each plane of the roof with the permit <u>early</u> marked on the deck for each inspection. The ler or measuring device to confirm nail spacing and valley flashing.
STATE OF FLORIDA COUNTY OF	
	/ledged before me this day of, 20, by who is personally known to meor has produced fication and whodid ordid not take an oath.
	Notary Public
	Printed Name:
	My Commission Expires:

\*No general, building, or residential contractor certified after 1973 shall act as, hold himself or herself out to be, or advertise himself or herself to be a roofing contractor unless he or she is certified as a roofing contractor.

100928905

**R905.1.1.1 Underlayment for asphalt, metal, mineral surfaced, slate and slate-type roof coverings.** Underlayment for asphalt shingles, metal roof shingles, mineral surfaced roll roofing, slate and slate-type shingles, and metal roof panels shall comply with one of the following methods:

> 1. The entire roof deck shall be covered with an approved self-adhering polymer-modified bitumen underlayment complying with ASTM D1970 installed in accordance with both the underlayment manufacturer's and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure for the roof covering to be installed.

> > **Exception:** An existing self-adhering modified bitumen underlayment that has been previously installed over the roof decking and where it is required, renailing off the roof sheathing in accordance with Section R908.7.1 can be confirmed or verified. An approved underlayment in accordance with Table R905.1.1.1 for the applicable roof covering shall be applied over the entire roof over the existing self-adhered modified bitumen underlayment.

2. A minimum 4-inch-wide (102 mm) strip of self-adhering polymer-modified bitumen membrane complying with ASTM D1970, installed in accordance with the manufacturer's instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment in accordance with Table R905.1.1.1 for the applicable roof covering shall be applied over the entire roof over the 4-inch-wide (102 mm) membrane strips.

**Exception:** A synthetic underlayment that is approved as an alternative to underlayment complying with ASTM D226 Type II and having a minimum tear strength of 15 lbf in accordance with ASTM D4533 and a minimum tensile strength of 20 lbf/inch in accordance with ASTM D5035 shall be permitted to be applied over the entire roof over the 4-inch-wide (102 mm) membrane strips. This underlayment shall be installed and attached in accordance with the underlayment attachment methods of Table R905.1.1.1 for the applicable roof covering and slope and the underlayment manufacturer's installation instructions.

3. A minimum 3<sup>3</sup>/<sub>4</sub>-inch wide (96 mm) strip of self-adhering flexible flashing tape complying with AAMA 711, Level 3 [for exposure up to 176°F (80°C)], installed in accordance with the manufacturer's instructions for the deck material, shall be applied over all joints in the

roof decking. An approved underlayment in accordance with Table R905.1.1.1 for the applicable roof covering shall be applied over the entire roof over the 4-inch-wide (102 mm) flashing strips.

- **Exception:** A synthetic underlayment that is approved as an alternative to underlayment complying with ASTM D226 Type II and having a minimum tear strength of 15 lbf in accordance with ASTM D4533 and a minimum tensile strength of 20 lbf/inch in accordance with ASTM D5035 shall be permitted to be applied over the entire roof over the 4-inch-wide (102 mm) flashing strips. This underlayment shall be installed and attached in accordance with the underlayment attachment methods of Table R905.1.1.1 for the applicable roof covering and slope and the underlayment manufacturer's installation instructions.
- 4. Two layers of ASTM D226 Type II or ASTM D4869 Type III or Type IV underlayment shall be installed as follows: Apply a 19-inch (483 mm) strip of underlayment felt parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36inch-wide (914 mm) sheets of underlayment, overlapping successive sheets 19 inches (483 mm); end laps shall be 6 inches and shall be offset by 6 feet. The underlayment shall be attached to a nailable deck with corrosionresistant fasteners with one row centered in the field of the sheet with a maximum fastener spacing of 12 inches (305 mm) o.c., and one row at the end and side laps fastened 6 inches (152 mm) o.c. Underlayment shall be attached using annular ring or deformed shank nails with metal or plastic caps with a nominal cap diameter of not less than 1 inch. Metal caps are required where the ultimate design wind speed,  $V_{ult}$  equals or exceeds 170 mph. Metal caps shall have a thickness of not less than 32gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch for ring shank cap nails. Cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than  $\frac{3}{4}$  inch into the roof sheathing.
- 5. Two layers of a reinforced synthetic underlayment that has a product approval as an alternative to underlayment complying with ASTM D226 Type II shall be permitted to be used. Synthetic underlayment shall have a minimum tear strength of 15 lbf in accordance with ASTM D4533 and a minimum tensile strength

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#### FLORIDA BUILDING CODE - RESIDENTIAL, 7th EDITION (2020)

# INTERNATIONAL **Code Council**®

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ROOF COVERING	UNDERLAYMENT TYPE	UNDERLAYMENT ATTACHMENT			
		2:12 = ROOF SLOPE < 4:12	ROOF SLOPE > 4:12		
Metal Roof Panels, ASTI Photovoltaic Shin-	ASTM D226 Type II ASTM D4869 Type III or IV ASTM D6757		Underlayment shall be applied shingle fashion, parallel to and star ing from the eave and lapped 4 inches (51 mm); end laps shall be inches and shall be offset by 6 feet. The underlayment shall be attached to a nailable deck with two staggered rows in the field of		
Metal Roof Shingles, Mineral-Surface Roll Roofing, Slate and Slate-type Shingles, Wood Shingles, Wood Shakes	ASTM D226 Type II ASTM D4869 Type III or IV	Apply in accordance with Section R905.1.1.1, Item 4 or Section R905.1.1.3, Item 3 as applicable to the type of roof covering.	the sheet with a maximum fastener spacing of 12 inches (305 mm) o.c., and one row at the end and side laps fastened 6 inches (152 mm) o.c. Underlayment shall be attached using annular ring or deformed shank nails with metal or plastic caps with a nominal cap diameter of not less than 1 inch. Metal caps are required where the ultimate design wind speed, $V_{ult}$ , equals or exceeds 170 mph. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch for ring shank cap nails and 0.091 inch for smooth shank cap nails. Cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than $3/4$ inch into the roof sheathing.		

TABLE R905.1.1.1 UNDERLAYMENT WITH SELF-ADHERING STRIPS OVER ROOF DECKING JOINTS

of 20 lbf/inch in accordance with ASTM D5035, and shall meet the liquid water transmission test of Section 8.6 of ASTM D4869. Synthetic underlayment shall be installed as follows: Apply a strip of synthetic underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full sheets of reinforced synthetic underlayment, overlapping successive sheets half the width of a full sheet plus the width of the manufacturer's single-ply overlap. End laps shall be 6 inches and shall be offset by 6 feet. Synthetic underlayment shall be attached to a nailable deck with corrosion-resistant fasteners with a maximum fastener spacing, measured horizontally and vertically, of 12 inches (305 mm) o.c. between side laps, and one row at the end and side laps fastened 6 inches (152 mm) o.c. Synthetic underlayment shall be attached using annular ring or deformed shank nails with metal or plastic caps with a nominal cap diameter of not less than 1 inch. Metal caps are required where the ultimate design wind speed,  $V_{ult}$ , equals or exceeds 170 mph. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch for ring shank cap nails. Cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than 3/4 inch into the roof sheathing.

**R905.1.1.2 Underlayment for concrete and clay tile.** Underlayment for concrete and clay tile shall comply with Section 905.3.3. **R905.1.1.3 Underlayment for wood shakes and shingles.** Underlayment for wood shakes and shingles shall comply with one of the following methods: 100928905

- 1. A minimum 4-inch-wide (102 mm) strip of selfadhering polymer-modified bitumen membrane complying with ASTM D1970, installed in accordance with the manufacturer's instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment in accordance with Table R905.1.1.1 for the applicable roof covering shall be applied over the entire roof over the 4-inch-wide (102 mm) membrane strips.
- 2. A minimum 3<sup>3</sup>/<sub>4</sub>-inch wide (96 mm) strip of selfadhering flexible flashing tape complying with AAMA 711, Level 3 [for exposure up to 176°F (80°C)], installed in accordance with the manufacturer's instructions for the deck material, shall be applied over all joints in the roof decking. An underlayment complying with Table R905.1.1.1 for the applicable roof covering shall be applied over the entire roof over the 4-inch-wide (102 mm) flashing strips.
- 3. Two layers of ASTM D226 Type II or ASTM D4869 Type III or Type IV underlayment shall be installed as follows: Apply a 19-inch (483 mm) strip of underlayment felt parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide (914 mm) sheets of underlayment, overlapping successive sheets 19 inches (483 mm); end laps shall be 6 inches and shall be offset by 6 feet. The underlayment shall be attached to a nailable deck with corrosion-resistant fasteners with one row centered in the field of the sheet with a maximum fastener spacing of 12 inches (305 mm) o.c., and one row at the end and side laps fastened 6 inches

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100928905

(152 mm) o.c. Underlayment shall be attached using annular ring or deformed shank nails with metal or plastic caps with a nominal cap diameter of not less than 1 inch. Metal caps are required where the ultimate design wind speed,  $V_{ult}$ , equals or exceeds 170 mph. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch for ring shank cap nails. Cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than 3/4inch into the roof sheathing.

#### R905.1.2 Ice barriers. Reserved.

R905.2 Asphalt shingles. The installation of asphalt shingles shall comply with the provisions of this section or RAS 115.

R905.2.1 Sheathing requirements. Asphalt shingles shall be fastened to solidly sheathed decks.

R905.2.2 Slope. Asphalt shingles shall be used only on roof slopes of two units vertical in 12 units horizontal (2:12) or greater. For roof slopes from two units vertical in 12 units horizontal (2:12) and less than four units vertical in 12 units horizontal (4:12), double underlayment application is required in accordance with Section R905.1.1.

R905.2.3 Underlayment. Underlayment shall comply and be installed in accordance with Section R905.1.1.

**R905.2.4 Asphalt shingles.** Asphalt shingles shall comply with ASTM D3462.

**R905.2.4.1** Wind resistance of asphalt shingles. Asphalt shingles shall be installed in accordance with Sections R905.2.6 and R905.2.6.1.

Table R905.2.4.1 Classification of Asphalt Roof Shingles. Reserved.

R905.2.5 Fasteners. Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12-gage [0.105 inch (3 mm)] shank with a minimum  $\frac{3}{8}$ -inch-diameter (9.5 mm) head, complying with ASTM F1667, of a length to penetrate through the roofing materials and not less than 3/4 inch (19.1 mm) into the roof sheathing. Where the roof sheath-

ing is less than  $\frac{3}{4}$  inch (19.1 mm) thick, the fasteners shall penetrate through the sheathing.

**Exception:** If the architectural appearance is to be preserved from below, an alternate method of attachment complying with the wind load requirements of Chapter 16 of the Florida Building Code, Building may be proposed unless otherwise addressed in Chapter 9. The alternative attachment shall be prepared, signed and sealed by a Florida-registered architect or a Floridaregistered engineer, which architect or engineer shall be proficient in structural design.

R905.2.6 Attachment. Asphalt shingles shall have the minimum number of fasteners required by the manufacturer, but not less than four fasteners per strip shingle or two fasteners per individual shingle. Where the roof slope exceeds 21 units vertical in 12 units horizontal (21:12, 175-percent slope), shingles shall be installed as required by the manufacturer.

R905.2.6.1 Classification of asphalt shingles. Asphalt shingles shall be classified in accordance with ASTM D3161, TAS 107 or ASTM D7158 to resist the basic wind speed per Figure R301.2(4). Shingles classified as ASTM D3161 Class D or classified as ASTM D7158 Class G are acceptable for use where  $V_{asd}$  is equal to or less than 100 mph. Shingles classified as ASTM D3161 Class F, TAS 107 or ASTM D7158 Class H are acceptable for use for all wind speeds. Asphalt shingle wrappers shall be labeled to indicate compliance with one of the required classifications, as shown in Table R905.2.6.1.

R905.2.7 Ice barrier. Reserved.

R905.2.8 Flashing. Flashing for asphalt shingles shall comply with this section or RAS 111.

R905.2.8.1 Base and counter flashing. Base and counter flashing shall be installed as follows:

- 1. in accordance with manufacturer's installation instructions, or
- 2. in compliance with RAS 111, or
- 3. a continuous metal minimum 4 inch by 4 inch "L" flashing shall be set in approved flashing cement and set flush to base of wall and over the underlayment. Both horizontal and vertical metal

TABLE R905.2.6.1				
CLASSIFICATION OF ASPHALT SHINGLES				

Maximum Basic Wind Speed, V <sub>ult</sub> , From Figure R301.2(4)	V <sub>asd</sub> as determined in accordance with Section R301.2.1.3	ASTM D7158	ASTM D3161
110	85	D, G or H	D or F
116	90	D, G or H	D or F
129	100	G or H	D or F
142	110	G or H	F
155	120	G or H	F
168	130	Н	F
181	140	Н	F
194	150	Н	F

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