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 roofing 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 INSPECTIONS.NET 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 ^{3/8}" to ¹/₄" 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...

To Schedule An Inspection - email:		Permit		In addition to this permit, you may be required to receive			Permit Number		
inspectionrequest@alpha-				approval from other State of					
inspections.net		Applic	ication Federal agencie		•				
					commencing w	vork T			
	•	s of this form	•	Project Addre					
be notarized if signed prior to coming to			City Haii.	Project Description		Reroof			
Property ID Key	/Number	1		Parcel Numbe		Not Required			
Owner's Name		Mailing Addres	S	City, State, Zip		Telephone			
General Contrac	ctor	Mailing Addres	s	City, State, Zip		Telephone			
Construction Co		Mailing Addres	s		City, State, Zip)		Telephone	
Electrical Contra		Mailing Addres	s		City, State, Zip)		Telephone	
Not Requir	ed								
Plumbing Contra		Mailing Addres	S		City, State, Zip)		Telephone	
Not Requir									
Not Requir		Mailing Addres	S		City, State, Zip)		Telephone	
Roofing Contract		Mailing Addres	S		City, State, Zip	1		Telephone	
Legal Description	on .	Not Required							
Bonding Compa		Not Required							
Bonding Compa		Not Required							
Architect's Name		Not Required							
Architect's Addre	ess	Not Required							
				Project In	formation				
Sul	bdivision Na	ime	Phase	Lot No.	Model	Elevation	Lot Area	Impervious	Surface Ratio
			Not Required	Not Required	Not Required	Not Required	Not Required		equired
Flood Zone	Not Required					•			
			Setbac		over Requi	red (ft)			
Front	Not Required	Rear	Not Required	Side	Not Required	Corner	Not Required	Street Side	
Proj	ect		rea	Electrical	Hvac		ter		<i>l</i> leter
New Alteration		Living Garage	Not Required	Service Size	Type Not Required	Municipal Well		Size	Not Required
Addition	╁	Porch(s)		Not		iency		Plumbing	1
Repair		Other		Required	Airhandler	Not Required	Sewer		•
Other		Total	Not Required	1	Condenser	Not Required	Septic		
Gara	age	Number o	f Bedrooms	Value		Code In Effect			
Attached Detached		Not R	equired	2020 FBC					
	naturo.		•			Date			
Applicant Sign		failure to record	a Notice of Comm	encement mav	result in your pa		nprovements to	your property.	If you intend to
obtain financing,	, consult with y	our lender or an	attorney before re-	cording your No	tice of Commen	cement. The is	ssuance of a bu	ilding permit do	oes not assure
the building setbacks have been met or that the structure does not encroach on an easement. The owner and/or contractor have the sole responsibility of									
determining compliance with setbacks and non-encroachment of easements. Permits expire 6 months after issuance. You are responsible for the completion of the permit, inspections, and all Re-Inspection Fees.									
	•	·							
								,	
I ne forego	-		ıcknowledge	a before n	ne this		day o	OT	
_		_, 20							who
1 '	-		s produced						as
1	on and wh	o did	or did not	take a	n oath.				
(Seal)									
Notary Pul	olic								
White Copy O	Office			Yellow Co	py Property App	oraiser		Pink Copy Owr	ner

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.

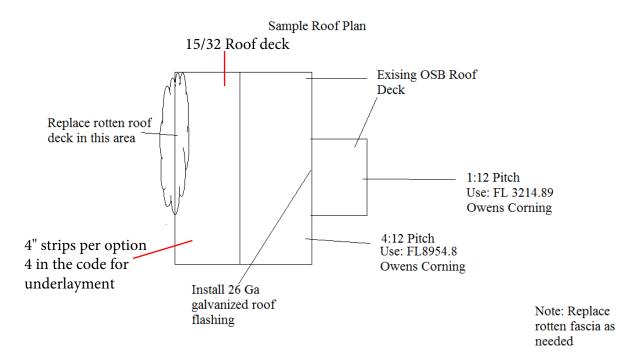
Any person who aids and abets unlicensed contractors or subcontractors will face imposed penalties as provided by law.

Section 6. Subsection (1) of Section 455. a profession; cease and desist notice; cive probable cause to believe that any persone regulatory board within the department of has violated any provision of this chapter regulated by the department, or any rule deliver to such person a notice to cease may issue and deliver a notice to cease unlicensed practice of a profession by energorizing a cease and desist order, the conserving a cease and desist order, the conserving a sease and desist order, the conserving issuance of an injunction or a winder provisions of such order. In addition to the anadministrative penalty not to exceed shall be entitled to collect its attorney collection. This Day of Read The Preceding And Understand The Having Been Noticed Of The Above Floric County And The State Of Florida. I further work proposed, and I assume full respond and building regulations. In the event a behalf will make such corrections and call for a subulding Division is not responsible for insurposed for the code enforcement action by no to engaging in the use of the proposed designed of Owner/Builder. State of Florida County of Lake I hereby certify that on this day, before materials and who did/did not take an oath.	wil penalty; enforcement (1) When not licensed by the department or the appropriate regulatory board or or any stature that relates to the adopted pursuant thereto, the department of the desist from such violation. In and desist to any person who aids imploying such unlicensed person department may file a proceeding with of mandamus against any person the foregoing remedies, the department may file a proceeding with a free and costs, together with the mandamus of the Year, I, he Responsibility Of Acting As My ida Statutes, Will Abide By The Later state that I have the knowledge as is ibility for familiarizing myself with a will ding inspector requires correct re-inspection before proceeding. Structing me on what to do. I under the trequesting and obtaining, Final levelopment	nen the department has or the appropriate d within the department practice of a profession partment may issue and addition, the department is and abets the is and abets the is. For the purpose of in the mane of the state on who violates any partment may impose that to F.S. 120.58, it is any cost of in the Undersigned, Have Own Contractor, And aws Governing Lake and ability to do the in all Lake County Codes ions to be made, I I understand the erstand I may subject Inspection Approval prior
Witness my hand and official seal this	day of	, 19
Notary Public		

Afte	er recording return to:						
Per	mit No: Folio or Alternate Key #:	Astatula, Clerm	Astatula, Clermont, Eustis, Fruitland Park, Howey in the Hills,				
		tice that improvement will be made to co	ertain real property, and in accordance with Notice of Commencement.				
1.	Description of property:	,	(legal description of the property, and street address if available)				
		Street Address:					
2.	General description of impro	vement:					
3.	Owner's Information:	Address:					
4.	Contractor Information:	Name:					
5.	Surety Information:	Name: Address: Telephone No.					
6.	Lender Information:	Name:	Fax No. (Opt.)				
7.	Persons within the State of F served as provided by Section	Florida designated by Owner upon whon on <u>713</u> .13(1)(a)7.,Florida Statutes: Name:					
8.	In addition to himself or hers to receive a copy of the follow	elf, Owner designates_ wing Lienor's Notice as Provided in Sec Name:	of				
9.			year from the date of recording unless a				
PA'	RNING TO OWNER: ANY PAYMI YMENTS UNDER CHAPTER 713, OPERTY. A NOTICE OF COMMEN	ENTS MADE BY THE OWNER AFTER THE PART I, SECTION <u>713.13</u> , FLORIDA STATU ICEMENT MUST BE RECORDED AND POS	EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER ITES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR STED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN ICING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.				
			Signature of Owner or Owner's Authorized Officer/Director /Partner /Manager				
			Printed Name & Signatory's Title/Office				
The	foregoing instrument was acknowl	edged before me thisday of	, 20, by				
who	is personally known to me or	has produced	as identification and vho did or did not take an oath.				
			Signature of Notary Public - State of Florida				
V	ification purcuent to Section 2007	325 Elorida Statutos	Print, type or Stamp Commissioned Name of Notary Public				
	ification pursuant to Section 92.5 ler penalties of perjury, I declare the		s stated in it are true to the best of my knowledge and belief.				
			Signature of Natural Person (Owner) Signing Above				

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</u> (1/2 plywood, 15/32 OSB, 1x12's etc), 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

Permit No:	Address:
hereby affirm, that all of the formailing, dry-in, and flashings at with the attached scope of work	, as a(n) General*, Building or, Engineer, Architect, or F.S. Chapter 468 <u>Building</u> Inspector, regoing information is true and accurate and that the sheathing above referenced address/lot have been installed in accordance complying with all applicable codes and standards. Based upon more installation was done in conformance to the Hurricane Mitigatic apter 553.844).
License #:	
Company/Contractor:	
Contractor's Signature:(Must be signed by license holder	Date:
This signed and notarized aff roofing inspection along with number or address number	nal roofing inspection is required: davit must be provided at the job site at the time of the final digital photographs of each plane of the roof with the perm clearly marked on the deck for each inspection. The ruler or measuring device to confirm nail spacing and nd valley flashing.
STATE OF FLORIDA COUNTY OF	
	nowledged before me this day of, 20, by who is personally known to meor has produced entification 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.

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 3³/₄-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

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

ROOF COVERING	UNDERLAYMENT TYPE	UNDERLAYMENT ATTACHMENT		
		2:12 = ROOF SLOPE < 4:12	ROOF SLOPE > 4:12	
Asphalt Shingles, Metal Roof Panels, Photovoltaic Shin- gles	ASTM D4869 Type III or IV ASTM D6757 ing from the eave and lapped 4 inches inches and shall be offset by 6 feet. T attached to a nailable deck with two s		Underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 4 inches (51 mm); end laps shall be 6 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	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.	

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 $\frac{3}{4}$ 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:

- 1. 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.
- 2. A minimum $3^3/_4$ -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

(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 $^{3}/_{4}$ inch 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 $^3/_8$ -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 $^{3}/_{4}$ 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 Florida-registered 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
- 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 _{ult} , From Figure R301.2(4)	V _{asd} 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