

VOLUSIA COUNTY
RESIDENTIAL STAND ALONE PERMIT SUBMITTAL CHECKLIST

Directions: Complete the applicable category only. If your project has more than one of these categories, it should be submitted on a different form. Be sure to place a checkmark in the “Submitted” column for all items that are included with the application. Put “N/A” for any items on the checklist that don’t apply and aren’t included. All items must be addressed and in proper order.

****PAYMENT IN FULL AT TIME OF SUBMITTAL. MAKE CHECKS PAYABLE TO COUNTY OF VOLUSIA****

Owner/Builder, must personally appear in office & sign application.

Contractor or Owner/Builder _____

Jobsite Address (including city name) _____

REROOF STAND ALONE PERMIT

<u>Submitted</u>	<u>Received</u>	
[]	[]	Completed Application – Front & back, notarized signature of qualifier. Must include written scope of work detailing existing material, new material, if tear off, etc.
[]	[]	Notice of Commencement (if job value exceeds \$2,500) Provide <u>certified recorded</u> Notice of Commencement at time of submittal or before inspection can be ordered.
[]	[]	Sloped Roof and/or Low Sloped Roof Worksheet (2 copies)
[]	[]	Metal & Tile Roof (2 copies) – Product approval information & manufacturer’s installation information in accordance with it’s testing is required.

Owner/Builder: Provide Manufacturer’s Specifications/Product Approval (2 copies)

SOLAR STAND ALONE PERMIT

<u>Submitted</u>	<u>Received</u>	
[]	[]	Completed Application – Front & back, notarized signature of qualifier. Must include written scope of work.
[]	[]	Notice of Commencement (if job value exceeds \$2,500) Provide <u>certified recorded</u> Notice of Commencement at time of submittal or before inspection can be ordered.
[]	[]	Plans detailing fastening system (2 copies) -Engineer or Architect sealed plans or 1 copy of Master Plan engineering.

GAS (LP OR NATURAL) STAND ALONE PERMIT

<u>Submitted</u>	<u>Received</u>	
[]	[]	Completed Application – Front & back, notarized signature of qualifier. Must include written scope of work.
[]	[]	Notice of Commencement (if job value exceeds \$2,500) Provide <u>certified recorded</u> Notice of Commencement at time of submittal or before inspection can be ordered.
[]	[]	Riser Diagram (2 copies) - required if more than one outlet.

Applications can be downloaded from our website at www.volusia.org/permitcenter

REROOF FEES:

MINIMUM FEE \$86.83

Valuation:

\$100.00-12,000.00 \$86.83

\$12,001.00-\$40,000.00 \$92.57 + 5.00 per additional \$1,000

SOLAR FEES

MINIMUM FEE \$37.57

Valuation:

\$100.00-\$2,000.00 \$37.57

\$2,001.00-\$40,000.00 \$37.57 + \$5.00 per additional \$1,000

GAS FEES:

MINIMUM FEE \$37.57

Gas Outlet \$ 5.00 each

Gas Outlet over 4 \$ 3.13 each

Note: All fees shall be adjusted annually on October 1, based upon the percentage change in the United States Department of Commerce Consumer Price Index for the twelve-month period ending on June 30 of that year. The next adjustment of fees will be Oct 1, 2008.



RESIDENTIAL PERMIT APPLICATION

EFFECTIVE CODE IS 2004 FBC

NON-REFUNDABLE APPLICATION FEES DUE AT TIME OF SUBMITTAL
APPLICATIONS IN PENCIL WILL NOT BE ACCEPTED

Date AP# PMT#

Tax Parcel Number E-Mail Address

Owner/Leaseholder's Name Day Phone #

Address Cell Phone #

City State Zip Fax #

Fee Simple Titleholder Address

City State Zip

ADDRESS OF PROJECT:

Number Direction Street Name Type Suite/Lot

City County Zip

Legal Description (include Lot #)

DESCRIPTION OF WORK: (Explain)

[] CHECK HERE IF THIS IS AN AFTER-THE-FACT PERMIT

TYPE OF ROOF: Shingle *Metal *Tile *Other

* These roof types requires a licensed roofer (except for owner/builders)

INDICATE IF THIS PROPERTY: (OWNER/CONTRACTOR ONLY)

Owner/Contractor-Residence for own use & occupancy [] - or- Is the Residential unit rental/lease property []

LICENSED CONTRACTOR INFORMATION:

Name of License Holder License #

Company Name Phone #

Address Mobile #

E-Mail Address for business use Fax #

Preferred Method of Contact: E-Mail Fax Telephone Preferred Pick up location: Daytona Beach DeLand

Private Provider Review: Yes No Private Provider Inspections: Yes No

SUBCONTRACTORS: Enter license number for each subcontractor

Table with 4 columns: LICENSE #, CARD HOLDER'S NAME, LICENSE #, CARD HOLDER'S NAME. Rows include ELEC, PLUMB, ARCH, ENG, HVAC, ROOF, OTHER, OTHER.

Application is hereby made to obtain a permit to do the work and installations as indicated. I verify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNER'S AFFIDAVIT: I verify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning. WARNING TO OWNER: Your failure to record a Notice of Commencement may result in your paying twice for improvements to your property. A Notice of Commencement must be recorded and posted on the job site before the first inspection. If you intend to obtain financing, consult with your lender or an attorney before recording your Notice of Commencement. ** I hereby declare that all information contained in this building permit application is true and correct**

Date

Owner's Signature (Must personally appear in office & sign)

STATE OF FLORIDA COUNTY OF

Affirmed and subscribed before me this day of

by

who is personally known to me or who has produced as identification (type of ID)

Signature of Notary Public State of Florida

Print, Type or Stamp Name of Notary

Seal:

Date

Contractor's Signature (or Authorized Agent)

STATE OF FLORIDA COUNTY OF

Affirmed and subscribed before me this day of

by

who is personally known to me or who has produced as identification (type of ID)

Signature of Notary Public State of Florida

Print, Type or Stamp Name of Notary

Seal:

RESIDENTIAL WORKSHEET
PLEASE TYPE OR PRINT CLEARLY

REFERENCE PERMIT NUMBERS: TREE _____ USE _____ WETLAND _____
OTHER _____ WELL PERMIT # _____ SEPTIC PERMIT # _____

ELECTRIC: Electric Company...FL POWER & LIGHT NORTH _____ SOUTH _____ TITVL _____ CLAY/SALT SPGS _____
CLAY/PALATKA _____ PROGRESS ENERGY _____ NSB UTIL _____
Service Size.....OLD Amps _____ Volts _____ Phase 1PH _____ 3PH _____
NEW Amps _____ Volts _____ Phase 1PH _____ 3PH _____
Number New/Altered Circuits _____ Temp Pole: Yes _____ No _____

FLOOD ZONE: If the building is located in a 100 year Flood Hazard area (A, AE, AH, V), a FEMA Flood Certification form is required.
Flood Zone X _____ V _____ A _____ BASE FLOOD ELEV (A or V) _____ Min Floor Elev _____ .00

WILL THE LOWEST FLOOR LEVEL BE 12" ABOVE ANY ADJACENT ROADS? YES _____ NO _____

HVAC: Type of System.....Electric _____ Gas _____ Oil _____ Kerosene _____ Heat Pump _____ A/C _____ Solar _____
Costs of HVAC _____ .00

PROJECT COST & USE: Cost of Structure or Project (include labor & materials) \$ _____ .00
Number of Square Feet Living Area _____ Number of Square Feet Garage Area _____ Number of Square Feet Other _____

POOL PERMITS ONLY: Pool Const. Cost \$ _____ .00 Safety Feature Const. Cost \$ _____ .00

PLUMBING: (Provide Proof of Water and/or Sewer Connections)

Number of PLUMBING Fixtures _____ Water Pump Connections _____ Public Water Connection _____ Sewer/Septic Hookups _____
Total Plumbing Units _____ County Utilities Available Yes _____ No _____
Number Gas Outlets _____ Number Gas Storage Tanks Underground _____ Above Ground _____

TREE CLEARING INFORMATION: Tree Removal Permit requires the site plan showing trees to be removed, tree barricades & replacement trees. **DO NOT** clear until Environmental Division inspects & approves tree barricades & issues the permit.

Tree Information: Lot size: Square Feet _____ Frontage _____ ft Depth _____ ft

USE PERMIT: Two Site Plans required showing width of drive at property line & edge of road / **City of Debarry requires 3 site plans**

Pursuant to Chapter 556, Florida Statutes, as amended, an excavator of the work performed under the scope of this application shall call the "Sunshine State One-Call of Florida, Inc." at 1-800-432-4770, or New Smyrna Beach Utilities at (386) 428-5721 not less than two nor more than five business days before beginning excavation

Driveway approach to Paved Rd _____ Unpaved Rd _____ Number of Culvert Pipes _____ Size _____

Bonding Company Name _____ Address _____
Mortgage Lender's Name _____ Address _____
Arch's/Engr's Name _____ Address _____

SITE PLANS AND BUILDING PLANS

Pursuant to Section 900.03 of the Zoning Ordinance, in addition to the information required by any other applicable section of this ordinance, and the Growth & Resource Management Department: Submit one originally signed and sealed boundary survey and plot plans in duplicate (copies of the sealed boundary survey) showing shape and dimensions of the lot, any existing structures, size and location of the proposed structure, use of any existing structures, intended use of each proposed structure, number of dwelling units, location of any existing roads, any platted rights-of-way, any platted easements, water bodies, watercourses, wetlands, street names and property address, any other information deemed necessary or appropriate by the Zoning Enforcement Official.

Construction plans are required to be a minimum scale of 1/4" = 1', showing all proposed construction to include: floor plan, foundation plan, all four elevation views, structural wall sections of house, covered patios, decks, and fireplace details. Energy forms will also be required (1 complete set, 2 additional copies of front page, and Manual J calculation form). **All construction plans must comply with the 2004 Florida Building Code, section R301.2, signed, sealed & dated by a Florida registered Architect or Engineer or comply with Chapter 3 Exceptions.** In addition, the plans must contain roof assembly information including substrate, type of roofing system, materials, fastening requirements, flashing requirements, wind rating, product evaluation or site specific statement by a Florida Registered Architect or Engineer. This may not be a complete list of everything necessary to submit for this permit.

Directions to property (Physical Location) _____

No lined or graph paper will be accepted / Bed & Breakfast and Residential Care Facility applications require a contractor



RESIDENTIAL SLOPE ROOF APPLICATION INFORMATION

WIND-BORNE DEBRIS AREA RETROFITS	WHEN A ROOF ON AN EXISTING BUILDING IS REPLACED THAT HAS A VALUE =>\$300,000 SECTION 101.2, 201.1 & 201.2 WILL APPLY BUILDING VALUATION WILL BE DETERMINED PER SECTION 101.2		<i>THIS COLUMN IS FOR INFORMATION AND EXAMPLES ONLY.</i>
ROOF-DECKING ATTACHMENT AND FASTENERS SECTION 101.1 (a)	WHEN A ROOF ON AN EXISTING SITE-BUILT, SINGLE FAMILY RESIDENTIAL STRUCTURE IS REPLACED: SECTION 201.1 WILL APPLY.		<i>THIS REQUIREMENT APPLIES TO ALL REROOFING PERMITS.</i>
SECONDARY WATER BARRIER SECTION 101 (b)	PEEL & STICK MUST COMPLY WITH SECTION 201.2 <input type="checkbox"/> ALL SHEATHING JOINTS <input type="checkbox"/> ENTIRE ROOF DECK		<i>THIS REQUIREMENT APPLIES TO ALL REROOFING PERMITS.</i> EXAMPLE: <input type="checkbox"/> ALL SHEATHING JOINTS <input checked="" type="checkbox"/> ENTIRE ROOF DECK
SLOPE:	_____ " IN 12"		EXAMPLE: 5" IN 12" (INCHES OF RISE IN 12" OF RUN)
AVERAGE ROOF HEIGHT:	_____ FEET		EXAMPLE: 15 FEET (SINGLE STORY BUILDING)
DECK TYPE:	_____		EXAMPLE (S): 1/2" PLYWOOD, 5/8" OSB
UNDERLAYMENT: ** NOT REQUIRED IF SHEATHING IS COMPLETELY COVERED WITH PEEL & STICK	TYPE : _____ <input type="checkbox"/> ASTM D 226, TYPE I or II <input type="checkbox"/> ASTM D 4869, TYPE I or II	LAYERS: _____	EXAMPLE: 15 # FELT, 2 LAYERS <input checked="" type="checkbox"/> ASTM D 226, TYPE I
ROOF COVERING:	MANUFACTURER _____ PRODUCT _____		EXAMPLE: ABC ROOFING PRODUCTS, INC. PINEVALLEY 30 AR
APPROVAL METHOD:	FLORIDA APPROVAL #: _____ -OR- MIAMI/DADE N.O.A.: _____		EXAMPLE: 1675.4 (FL#) - OR - NOA No 03-0528.06 (MIAMI/DADE)
FASTENERS:	TYPE: _____		EXAMPLE: 1 1/2" GALVANIZED ROOFING NAIL

HURRICANE MITIGATION RETROFITS FOR EXISTING SITE-BUILT SINGLE FAMILY RESIDENTIAL STRUCTURES

101 Retrofits Required. Pursuant to Section 553.844, Florida Statutes, strengthening of existing site-built, single family residential structures to resist hurricanes shall be provided.

101.1 When a roof on an existing site-built, single family residential structure is replaced:

- (a) Roof-decking attachment and fasteners shall be strengthened and corrected as required by section 201.1.
- (b) A secondary water barrier shall be provided as required by section 201.2.

101.2 When a roof is replaced on a building that is located in the wind-borne debris region as defined in s. 1609.2 of the Florida Building Code, Building and that has an insured value of \$300,000 or more or, if the building is uninsured or for which documentation of insured value is not presented, has a just valuation for the structure for purposes of ad valorem taxation of \$300,000 or more:

- (a) Roof to wall connections shall be improved as required by section 201.3.
- (b) Mandated retrofits of the roof-to-wall connection shall not be required beyond a 15 percent increase in the cost of re-roofing.
- (c) Where complete retrofits of all the roof-to-wall connections as prescribed in Section 201.3 would exceed 15 percent of the cost of the re-roofing project, the priorities outlined in Section 201.3.5 shall be used to limit the scope of work to the 15 percent limit.

201 Roof System Mitigation Techniques. Roof sheathing fastening, secondary water barriers, roof to wall connection and gable end bracing shall be permitted pursuant to this section.

201.1 Roof sheathing fastening for site-built single family residential structures. For site-built single family residential structures the fasteners and spacing required in Table 201.1 are deemed to comply with the requirements of Section 507.2.2, of the 2004 Florida Building Code, Existing Building. Board roof decking secured with at least two 8d nails into roof framing members shall be deemed to be sufficiently connected. Board roof decking secured with smaller fasteners than 8d nails or with fewer than two 8d nails per board shall be deemed sufficiently connected if two 8d clipped head, round head, or ring shank nails are in place on each framing member.

Supplemental fasteners as required by Table 201.1 shall be 8d ring shank nails with round heads and the following minimum dimensions:

1. 0.113 inch nominal shank diameter
2. Ring diameter of 0.012 over shank diameter
3. 16 to 20 rings per inch
4. 0.280 inch full round head diameter
5. 2-1/4 inch nail length

**Table 201.1
Supplement Fasteners at Panel Edges and Intermediate Framing**

Existing fasteners	Existing spacing	Wind speed greater than 110 mph supplemental fastening shall be no greater than
Staples or 6d	Any	6" o.c. ^b
8d clipped head, round head, or ring shank	6" o.c. or less	None necessary
8d clipped head or round head	Greater than 6" o.c.	6" o.c. ^b
8d round head ring shank	Greater than 6" o.c.	6" o.c. ^a

a. Maximum spacing determined based on existing fasteners and supplemental fasteners.

b. Maximum spacing determined based on supplemental fasteners only.

201.2 Roof secondary water barrier for site-built single family residential structures. A secondary water barrier shall be installed using one of the following methods when roofing replacement when reroofing.

a) All joints in roof sheathing or decking shall be covered with a minimum 4 in. wide strip of self-adhering polymer modified bitumen tape applied directly to the sheathing or decking. The deck and self adhering polymer modified bitumen tape shall be covered with one of the underlayment systems approved for the particular roof covering to be applied to the roof.

b) The entire roof deck shall be covered with an approved self-adhering polymer modified bitumen cap sheet. No additional underlayment shall be required on top of this cap sheet for new installations.

EXCEPTIONS:

1. An asphalt impregnated 30# felt underlayment installed with nails and tin-tabs as required for the HVHZ and covered with either an approved self-adhering polymer modified bitumen cap sheet or an approved cap sheet applied using an approved hot-mop application shall be deemed to meet the requirements for the secondary water barrier.

201.3 Roof-to-wall connections for site-built single family residential structures. Where required by Section 101.2, the intersection of roof framing with the wall below shall be strengthened by adding metal connectors, clips, straps, and fasteners such that the performance level equals or exceeds the uplift capacities as specified in Table 201.3. As an alternative to an engineered design, the prescriptive retrofit solutions provided in Sections 201.3.1 through 201.3.4 shall be accepted as meeting the mandated roof-to-wall retrofit requirements.

201.3.1 Prescriptive method for gable roofs on a wood frame wall. Sufficient eave sheathing shall be removed to expose a minimum of 6-feet of framing members, measured from the corner, along the exterior wall on each side of each gable end. The anchorage of each of the exposed rafters or truss shall be inspected. Wherever a strap is missing or an existing strap has fewer than four fasteners on each end, approved straps, ties or right angle gusset brackets with a minimum uplift capacity of 500 lbs shall be installed that connect each rafter or truss to the top plate below. Adding fasteners to existing straps shall be allowed in lieu of adding a new strap provided the strap is manufactured to accommodate at least 4 fasteners at each end. Wherever access makes it possible

(without damage of the wall or soffit finishes), both top plate members shall be connected to the stud below using a stud to plate connector with a minimum uplift capacity of 500 lbs.

**Table 201.3
REQUIRED UPLIFT CAPACITIES FOR ROOF-TO-WALL CONNECTIONS
(POUNDS PER LINEAR FOOT)**

	BASIC WIND SPEED	ROOF SPAN (FEET)							OVERHANGS
		12	20	24	28	32	36	40	
Within 6 feet of building corner	85	-69.85	-116.42	-139.70	-162.99	-186.27	-209.55	-232.84	-27
	90	-82.67	-137.78	-165.34	-192.90	-220.45	-248.01	-275.57	-30.3
	100	-110.51	-184.18	-221.01	-257.85	-294.68	-331.52	-368.36	-37.4
	110	-141.27	-235.45	-282.55	-329.64	-376.73	-423.82	-470.91	-45.3
	120	-174.97	-291.62	-349.94	-408.26	-466.59	-524.91	-583.23	-53.9
	130	-211.60	-352.66	-423.19	-493.72	-564.26	-634.79	-705.32	-63.2
	140	-251.15	-418.59	-502.31	-586.02	-669.74	-753.46	-837.18	-73.3
	150	-293.64	-489.40	-587.28	-685.16	-783.04	-880.92	-978.80	-84.2
	170	-387.40	-645.67	-774.81	-903.94	-1033.08	-1162.21	-1291.35	-108
Greater than 6 ft from building corner	85	-39.10	-65.17	-78.20	-91.24	-104.27	-117.30	-130.34	-27
	90	-48.20	-80.33	-96.39	-112.46	-128.52	-144.59	-160.66	-30.3
	100	-67.95	-113.24	-135.89	-158.54	-181.19	-203.84	-226.49	-37.4
	110	-89.78	-149.63	-179.55	-209.48	-239.40	-269.33	-299.25	-45.3
	120	-113.68	-189.47	-227.37	-265.26	-303.16	-341.05	-378.94	-53.9
	130	-139.67	-232.78	-279.34	-325.90	-372.45	-419.01	-465.57	-63.2
	140	-167.74	-279.56	-335.47	-391.38	-447.29	-503.21	-559.12	-73.3
	150	-197.88	-329.80	-395.76	-461.72	-527.68	-593.64	-659.60	-84.2
	170	-264.41	-440.68	-528.81	-616.95	-705.08	-793.22	-881.35	-108

Notes:

- a. The required capacities are pounds per lineal foot of building length. For roof framing spaced at 16 inches on center multiply table values by 1.33. For roof framing spaced at 24 inches on center multiply table values by 2.
- b. The required capacities include an allowance for 10 pounds of dead load.
- c. The required capacities do not account for the effects of overhangs. The overhang loads given shall be multiplied by the overhang projection and added to the required capacities in the table.

201.3.2 Prescriptive method for gable roofs on a masonry wall. Sufficient eave sheathing shall be removed to expose a minimum of 6-feet of framing members, measured from the corner, along the exterior wall on each side of each gable end. The anchorage of each of the exposed rafters or truss shall be inspected. Wherever a strap is missing or an existing strap has fewer than four fasteners on each end, approved straps, ties or right angle gusset brackets with a minimum uplift capacity of 500 lbs shall be installed that connect each rafter or truss to the top plate below or directly to the masonry wall using approved masonry screws that will provide at least a 2-1/2 embedment into the concrete or masonry. When the straps or right angle gusset brackets are attached to a wood sill plate, the sill plate shall be anchored to the concrete masonry wall below. This anchorage shall be accomplished by installing 1/4-inch diameter masonry screws, each with supplementary 1/4-inch washer, having sufficient length to develop a 2-1/2 inch embedment into the concrete and masonry. These screws shall be installed within 4-inches of the truss or rafter on both sides of each interior rafter or truss and on the accessible wall side of the gable end truss or rafter.

201.3.3 Prescriptive method for hip roofs on a wood frame wall. Sufficient corner eave sheathing shall be removed from the side of the hip ridge parallel to the roof ridge to provide access to a minimum 6-foot length of the exterior wall. The hip ridge board and any exposed rafters that are not anchored with a strap having at least four fasteners on each end, shall be connected to the top plate below using a strap or a right angle gusset bracket having a minimum uplift capacity of 500 lbs. Adding fasteners to existing straps shall be allowed in lieu of adding a new strap provided the strap is manufactured to accommodate at least 4 fasteners at each end. Wherever access makes it possible (without damage of the wall or soffit finishes), both top plate members shall be connected to the stud below using a stud to plate connector with a minimum uplift capacity of 500 lbs.

201.3.4 Prescriptive method for hip roofs on a masonry wall. Sufficient corner eave sheathing shall be removed from the side of the hip ridge parallel to the roof ridge to provide access to a minimum 6-foot length of the exterior wall. The hip ridge board and any

exposed rafters that are not anchored with a strap having at least four fasteners on each end, shall be connected to the concrete masonry wall below using approved straps or right angle gusset brackets with a minimum uplift capacity of 500 lbs. Adding fasteners to existing straps shall be allowed in lieu of adding a new strap provided the strap is manufactured to accommodate at least 4 fasteners at each end. The straps or right angle gusset brackets shall be installed such that they connect each rafter or truss to the top plate below or directly to the masonry wall using approved masonry screws that will provide at least a 2-1/2 inch embedment into the concrete or masonry. When the straps or right angle gusset brackets are attached to a wood sill plate, the sill plate shall be anchored to the concrete masonry wall below. This anchorage shall be accomplished by installing 1/4-inch diameter masonry screws, each with supplementary 1/4-inch washer, with sufficient length to develop a 2-1/2 inch embedment into the concrete and masonry. These screws shall be installed within 4-inches of the truss or rafter on both sides of each interior rafter or truss and on the accessible wall side of the gable end truss or rafter.

201.3.5 Priorities for mandated roof-to-wall retrofit expenditures. For houses with both hip and gable roof ends, the priority shall be to retrofit the gable end roof-to-wall connections unless the width of the hip end is more than 1.5 times greater than the width of the gable end. Priority shall be given to connecting the corners of roofs to walls below where the spans of the roofing members are greatest.

R905.2.4 - Asphalt shingles shall have self-seal strips or be interlocking, and comply with ASTM D 225 or D 3462.

R905.2.5 - Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12 gage [0.105 inch (2.67 mm)] shank with a minimum 3/8-inch (9.5 mm) diameter head, ASTM F 1667, of a length to penetrate through the roofing materials and a minimum of 3/4 inch (19.1 mm) into the roof sheathing. Where the roof sheathing is less than 3/4 inch (19.1 mm) thick, the fasteners shall penetrate through the sheathing. Fasteners shall comply with ASTM F 1667.

R905.2.6 - Asphalt shingles shall have the minimum number of fasteners required by the manufacturer. For normal application, asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle or two fasteners per individual shingle. Where the roof slope exceeds 20 units vertical in 12 units horizontal (20:12), special methods of fastening are required. For roofs located where the basic wind speed per Figure R301.2(4) is 110 mph (177 km/h) or greater, special methods of fastening are required. Special fastening methods shall be tested in accordance with ASTM D 3161, modified to use a wind speed of 110 mph (177 km/h), or TAS107. Shingles classified using ASTM D 3161 are acceptable for use in wind zones less than 110 mph. Shingles classified using ASTM D 3161 or TAS107 modified to use a wind speed of 110 mph or TAS107 are acceptable for use in all cases where special fastening is required.

R905.2.7 - For roof slopes from two units vertical in 12 units horizontal (17-percent slope), up to four units vertical in 12 units horizontal (33-percent slope), underlayment shall be two layers applied in the following manner. Apply a 19-inch (483 mm) strip of underlayment felt parallel with 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), and fastened sufficiently to hold in place. For roof slopes of four units vertical in 12 units horizontal (33-percent slope) or greater, underlayment shall be one layer applied in the following manner. Underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 2 inches (51 mm), fastened sufficiently to hold in place. End laps shall be offset by 6 feet (1829 mm). §1507.3.9 Flashings. Flashing for asphalt shingles shall comply with §1507.3.9. (R905.2.7.2 - Underlayment applied in areas subject to high winds [greater than 110 mph (177km/h) per Figure R301.2(4)] shall be applied with corrosion-resistant fasteners in accordance with manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

R905.2.8.1 - Base and counter flashing shall be installed in accordance with manufacturer's installation instructions, or a continuous metal "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 flanges shall be fastened 6 inches (152 mm) on center with approved fasteners. All laps shall be a minimum of 4 inches (102 mm) fully sealed in approved flashing cement. Flashing shall start at the lower portion of roof to ensure water-shedding capabilities of all metal laps. The entire edge of the horizontal flange shall be sealed covering all nail penetrations with approved flashing cement and membrane. Shingles shall overlap the horizontal flange and shall be set in approved flashing cement. Base flashing shall be of either corrosion-resistant metal provided in Section R905.2.8.1 or mineral surface roll roofing weighing a minimum of 77 pounds per 100 square feet (3.76 kg/m²). Counter flashing shall be corrosion-resistant metal with a minimum thickness provided in Table R903.1.

R905.2.8.2 -

Valley linings shall be installed in accordance with manufacturer's installation instructions before applying shingles. Valley linings of the following types shall be permitted:

1. For open valley (valley lining exposed) lined with metal, the valley lining shall be at least 16 inches (406 mm) wide and of any of the corrosion-resistant metals in Table R903.1.
2. For open valleys, valley lining of two plies of mineral surface roll roofing, complying with ASTM D 249, shall be permitted. The bottom layer shall be 18 inches (457 mm) and the top layer a minimum of 36 inches (914 mm) wide.
3. For closed valleys (valley covered with shingles), valley lining of one ply of smooth roll roofing complying with ASTM D 224 Type II or Type III and at least 36 inches (914 mm) wide or valley lining as described in Items 1 and 2 above shall be permitted. Specialty underlayment complying with ASTM D 1970 may be used in lieu of the lining material.



VOLUSIA COUNTY
LOW SLOPED ROOF INFORMATION

Permit Number: _____

Roof coverings shall be applied in accordance with the applicable provisions of Section 1508 of the Florida Building Code, 120 MPH Wind Zone, and the manufacturer's installation instructions.

- MODIFIED BITUMEN ROOF COVERINGS SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS:

CGSB 37-GP-56 M	ASTM D 6222
ASTM D 6162	ASTM D 6298
ASTM D 6163	ASTM D 6223
ASTM D 6164	

- BUILT-UP ROOFS SHALL COMPLY WITH THE FOLLOWING STANDARDS:

AGGREGATE SURFACING	ASTM D 1863
ASPHALT-COATED GLASS FIBER BASE SHEET	ASTM D 4601
ASPHALT GLASS FELT	ASTM D 2178
ASPHALT-SATURATED AND ASPHALT-COATED ORGANIC FELT BASE SHEET	ASTM D 2626
ASPHALT SATURATED ORGANIC FELT (PERFORATED)	ASTM D 226
ASPHALT USED IN ROOFING	ASTM D 312
COAL-TAR SATURATED ORGANIC FELT	ASTM D 227
COAL TAR USED IN ROOFING	ASTM D 450, Types I or II
GLASS MAT, COAL TAR	ASTM D 4990
GLASS MAT, VENTING TYPE	ASTM D 4897
MINERAL-SURFACED INORGANIC CAP SHEET	ASTM D 3909

The installation of built-up roofs shall comply with the provisions of Section 1508.3 of the Florida Building Code. Built-up roofs shall have a minimum 1/4:12 design slope for drainage, except a minimum 1/8:12 design slope shall be allowed for coal-tar built-up roofs.

- INSTALLATION OF SPRAY-APPLIED POLYURETHANE FOAM INSULATION SHALL COMPLY WITH 1508.8, FLORIDA BUILDING CODE. MATERIAL STANDARDS SHALL COMPLY WITH ASTM C 1029.

Sprayed polyurethane foam roofs shall have a minimum design slope of 1/4:12 for drainage. Foamed in place roof insulation shall be installed in accordance with the foam insulation manufacturer's installation instructions. A liquid-applied protective coating shall be applied no less than 2 hours nor more than 72 hours following the application of the foam. Liquid applied coating material standards shall comply with ASTM C 836, ASTM C 957, ASTM D 1227 or ASTM D 3468.

MANUFACTURER: _____

SERIES/BRAND/PRODUCT/MATERIAL: _____

COMPANY NAME: _____

CONTRACTOR/AGENT NAME: _____

I certify that the roof coverings, as installed, will be applied in accordance with the applicable provisions of Section 1508 of the Florida Building Code, 120 MPH WINDZONE, and the manufacturer's installation instructions.

CONTRACTOR/AGENT SIGNATURE: _____

NOTE: MANUFACTURER'S PRODUCT APPROVAL AND INSTALLATION INFORMATION ARE REQUIRED TO BE ON SITE FOR INSPECTIONS.

County of Volusia
BUILDING DEPARTMENT

RE: Permit # _____

10/1/07

Inspection Affidavit

Inspection affidavit(s) from contractors will only be accepted when an in progress inspection has been scheduled the prior working day.

I _____, licensed as a Contractor*
(please print name and circle license type) /Engineer/Architect,

License #: _____

On or about _____, I did personally inspect the
(Date & time)

roof to wall connections work at _____,
(Job Site Address)

Based upon that examination I have determined the installation was done according to the Hurricane Mitigation Retrofit Manual (Based on 553.844 F.S.)

Signature

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this ____ day of _____, 200__

By _____.

Notary Public, State of Florida

(Print, type or stamp name)

Commission No.: _____

Personally known _____ or
Produced Identification _____
Type of identification produced. _____

*** General, Building or Residential Contractor. Include photographs of each work area of the roof with the permit # or address # clearly shown marked on the deck for each inspection.**

County of Volusia
BUILDING DEPARTMENT

RE: Permit # _____

10/1/07

Inspection Affidavit

Inspection affidavit(s) from contractors will only be accepted when an in progress inspection has been scheduled the prior working day.

I _____, licensed as a Contractor*
(please print name and circle license type) /Engineer/Architect,

License #: _____

On or about _____, I did personally inspect the
(Date & time)

roof deck nailing work at _____,
(Job Site Address)

Based upon that examination I have determined the installation was done according to the Hurricane Mitigation Retrofit Manual (Based on 553.844 F.S.)

Signature

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this ____ day of _____, 200__

By _____.

Notary Public, State of Florida

(Print, type or stamp name)

Commission No.: _____

Personally known _____ or
Produced Identification _____
Type of identification produced. _____

*** General, Building, Residential or Roofing Contractor. Include photographs of each plane of the roof with the permit # or address # clearly shown marked on the deck for each inspection.**

County of Volusia
BUILDING DEPARTMENT

RE: Permit # _____

10/1/07

Inspection Affidavit

Inspection affidavit(s) from contractors will only be accepted when an in progress inspection has been scheduled the prior working day.

I _____, licensed as a Roofing Contractor
(please print name and circle license type) /Engineer/Architect,

License #: _____

On or about _____, I did personally inspect the
(Date & time)

secondary water barrier work at _____,
(Job Site Address)

Based upon that examination I have determined the installation was done according to the Hurricane Mitigation Retrofit Manual (Based on 553.844 F.S.)

Signature

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this ____ day of _____, 200__

By _____.

Notary Public, State of Florida

(Print, type or stamp name)

Commission No.: _____

Personally known _____ or
Produced Identification _____
Type of identification produced. _____

Include photographs of each plane of the roof with the permit # or address # clearly shown marked on the deck for each inspection.