



Residential Building Final

This tip sheet reflects code requirements of the 2018 International Residential Code (IRC) with Florida State Amendments.

Please verify the following before calling for a Building Final inspection.

Permit	s and Plans
	Permit and approved plans are on site and accessible to the inspector. (R105.7, R106.1.1, R106.3.1)
	Permit information is correct (e.g., address, permit number, etc.). (R106.1.1) All other finals are approved and verify that all previous inspections were signed off on card and in the system. (Check with the local jurisdiction for required finals.) (R104.4, R109.4)
	The final letter from the special inspection agency (if applicable) has been submitted. FEMA elevation certificate by licensed surveyor for construction in flood hazard areas is complete and submitted (see jurisdiction for details.) (R106.1.4)
Exteri	or
	House numbers are plainly visible legible from the street or road fronting the property. Each character is minimum 4 inches in height and of contrasting color. (R319.1) All exterior windows, penetrations, and openings caulked. (WSEC R402.4.1.2; R703.1.1)
	Chimney terminations are 2 feet above any roof/structure within 10 feet and not less than 3 feet above the highest point where the chimney passes through the roof. (R1003.9)
	Spark arresters installed on top of chimney. (R1003.9.2)
	Wood siding has a minimum clearance of 6 inches from the ground and not less than 2 inches from concrete and similar horizontal surfaces. (R317.1, Item 5)
	The grade at the foundation falls away from the building a minimum of 6 inches within the first 10 feet. A minimum slope of 5% is required where less than 6 inches fall in 10 feet. If using swales maintain a minimum 2% slope. (R401.3)
	Insulation applied to the exterior of basement walls, crawlspace walls and the perimeter of slabon-grade floors shall have a rigid, opaque and weather-resistant protective covering to prevent the degradation of the insulation's thermal performance. The protective covering shall cover the exposed exterior insulation and extend a minimum of 6 inches below grade. (WSEC 303.2.1)
	Carports that are not open on at least two sides will be inspected as garages and all fire separation requirements will apply. (R309.2)
Decks	, Exterior Stairs, and Walkways
	See Tip Sheets 1, 2, 3, and 5 for details.
	Verify that deck placement, setback, size and materials are per approved plans.





	(R507.1)
	Deck is positively attached and supports both lateral and live loads (40 pounds per square foot minimum) (R301.5, R507.8)
	All deck material treated or naturally resistant to decay. Cuts, notches, and holes are treated with preservative. (R317.1, R317.1.1, R317.1.2, R317.1.5, R317.2)
	Fasteners and hardware for pressure preservative and fire-retardant-treated wood shall be of hot-dipped galvanized steel, stainless steel, silicon bronze or copper. (R317.3, R317.3.1, Manufacturer's Installation Instructions
	Joists can be untreated if approved weatherproof decking membrane is used. Note: soffits allowed when ventilated. (R317.1.3, R507.2.2, R507.2.4)
	Ledger for decks bolted/lagged to structure in accordance with IRC Table 507.2.3 or per approvedplan. (R507.2.3) See also Tip Sheet 5.
	Deck lateral connections require a minimum (2) 1,500 pounds hold-down tension devices, installed in not less than two locations (ends) per deck, installed and connected to interior parallel joists per IRC Figure 507.9.2(1). Alternatively, not less than (4) 750 pounds hold-down tension devices shall be installed per deck as depicted in IRC Figure 507.9.2(1) and IRC Figure 507.9.2(2). Exception: Decks less than 30 inches above grade. (R507.9.2)
	Cantilevered joists supporting exterior balconies shall be blocked at the supported end. (IRC Table R502.3.3(2), Note 'e')
	Bottom of footings are minimum 12 inches below grade for freeze protection. (R301.2, R403.1.4)
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	Refer to the Stairs and Handrails section that follows for more information.
Interior	
ti re g b	Single family garages are separated from the residence and its attic area by not less nan 1/2- inch gypsum board applied to the garage side. Garages beneath habitable coms shall be separated from all habitable rooms above by not less than 5/8-inch Type X lypsum board or equivalent. Structures supporting a floor/ceiling assembly are protected by minimum 1/2-inch gypsum board or equal. See Tip Sheet 6. (IRC Table R302.6) Garage door to house is weatherstripped. (WSEC R402.2.4)
	Primary heat source cannot be woodstove. Any woodstove or pellet stove must be EPA ertified. (R303.10.2, R303.10.3, WA Amendment)
g	Oucts in garages which penetrate the walls or ceilings separating the dwelling from the larage shall be constructed of a minimum No. 26 gage sheet metal and can have no spenings into the garage. See Tip Sheet 6. (R302.5.2)
	Other penetrations through garage walls and ceilings are filled with approved material to esist free passage of flame and smoke. (R302.5.3, R302.11, Item 4)
	Solid wood doors not less than 1-3/8 inches in thickness, solid or honeycomb-core steel loors not less than 1-3/8 inches thick door, or 20-minute fire-rated doors, equipped with a





	See Tip Sheet 6. (R302.5.1)
	A permanent certificate shall be completed by the builder or other approved party and posted on a wall in the space where the furnace is located, a utility room, or an approved location inside the building. The certificate shall list the predominant R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, below-grade wall, and/or floor) and ducts outside conditioned spaces; U-factors for fenestration and the solar heat gain coefficient (SHGC) of fenestration; the results from any required duct system and building envelope air leakage testing done on the building; and the results from the whole-house mechanical ventilation system flow rate test. (WSEC R401.3)
	The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. (WSEC R402.4.1.2)
	Verify how the dwelling complied with the options from WSEC Table R406.2 so as to achieve the following minimum number of credits: 1. Small Dwelling Unit: 3.0 credits Dwelling units less than 1500 square feet in conditioned floor area with less than 300 square feet of fenestration area. Additions to existing building greater than 500 square feet of heated floor area but less than 1500 square feet.
	2. Medium Dwelling Unit: 6.0 credits All dwelling units that are not included in 1, 3, or 4.
	 Large Dwelling Unit: 7.0 credits Dwelling units exceeding 5000 square feet of conditioned floor area. Dwelling units serving R-2 occupancies: 4.5 credits Additions less than or equal to 500 square feet: 1.5 credits
Attics	
	Attic accesses required to areas exceeding 30 square feet and which have a vertical height of 30 inches or greater. (R807.1)
	Accesses shall be in hallways or other readily accessible location. (R807.1) Attic access has an unobstructed opening not less than 22 inches by 30 inches or large enough to remove the largest piece of mechanical equipment intact. (R807.1, M1305.1.3) Access door insulated and gasketed at insulated ceilings and surrounding curb is
	minimum 12 inches in height. (WSEC R402.2.1.1, WSEC R402.2.4) The thickness of blown-in or sprayed roof/ceiling insulation (fiberglass or cellulose) shall be written in inches on markers that are installed at least one for every 300 square feet throughout the attic space. The markers shall be affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers a minimum of1 inch in height. Each marker shall face the attic access appairing. Spray polygrathana form
	height. Each marker shall face the attic access opening. Spray polyurethane foam thickness and installed R-value shall be listed on certification provided by the insulation installer. (WSEC R303.1.1.1)
	Blow-in insulation has not filled/blocked baffles. Maintain a 1-inch clearance between roof





	sheeting and insulation. (R806.3, WSEC R402.2.1.1)
	Blow in insulation must have a 1-inch clearance to gas fired exhaust vents. (See mechanical final checklist)
Crawl	Space
	Floor crawl access 18 inches by 24 inches minimum. (R408.4)
	Openings through a perimeter wall to crawl shall be 16 inches by 24 inches minimum. (R408.4)
	Ventilation at crawl space unobstructed by insulation. (WSEC R402.2.7)
	Venting at crawl as shown on plan minimum 1 square foot for every 300 square feet of floor area. (R408.1, R408.2)
	Vapor barrier (black 6 mil. plastic or approved equal) covers the crawl completely,
	wall-to-wall, with all seams lapped 6 inches and extended to the foundation wall. (R408.1)
	R -30 insulation is installed against bottom of floor and secured in place. (WSEC Table R402.1.1, WSEC R402.2.7)
	Pressure treated wood posts installed at basements or cellars or supported by piers or
	metal pedestals projecting 1 inch above floor or finished grade and 6 inches above exposed earth and separated by an approved impervious moisture barrier. (R317.1.4,
	Exception 1)
	Pressure treated wood posts installed in crawlspaces or unexcavated areas, supported
	by a concrete pier or metal pedestal 8 inches above exposed earth and separated by an
	approved impervious moisture barrier. (R317.1.4, Exception 2)
	Remove all debris from the crawl space. (R408.5)
	Floors constructed of lumber less than 2 by 10-dimensional lumber to be fire protected on the underside where a crawl space is used is for storage or contains fuel burning
	appliances or equipment. (R302.13)
	Where required, flood resistant construction in flood hazard areas (e.g., treated/water
	resistant materials,flood vents, etc.) shall be used. (R322)
	and Handrails
	For differing stair types and requirements see Tip Sheet 1.
	Stair riser/tread maximum dimension does not exceed the smallest by more than 3/8 inch. (R311.7.5.2)
	Not less than 6-foot 8-inch clearance for headroom is maintained at stairs, measured
	vertically from the sloped line adjoining the tread noising or from the floor surface of the landing or platform on that portion of the stairway. (R311.7.2)
	All stairs are provided with illumination, and light switch at each floor level of 6 or more
	risers. Exterior stairway lighting is to be controlled from within the building. (R303.7,
	R303.8)
	Nosings at treads have projections between 3/4-inch and 1-1/4 inches are required when
_	solid risers are installed, except when the tread depth is 11"minimum. (R311.7.5.3)
	Open risers do not allow passage of a 4-inch sphere, except stairs with a rise of 30





	inches or less. (R311.7.5.1)
	Radius of curvature at the leading edge of the tread is not over 9/16-inch. (R311.7.5.3)
	The greatest nosing projection does not exceed the smallest by more than 3/8-inch. (R311.7.5.3)
	Stair risers are maximum 7-3/4 inches, treads are minimum 10 inches. (R311.7.5)
	Stair riser/tread maximum dimension does not exceed the smallest by more than 3/8-inch. (R311.7.5.1)
	Guards do not allow passage of a 4-inch sphere. (R312.1.3)
	Guards installed at the sides of stairs do not allow the passage of a 4-3/8-inch sphere. (R312.1.3, Exception2)
	Guards adjacent to floor surfaces over 30 inches from adjacent floor or grade are a minimum 36 inches height measured from floor/grade to the top of the guard. (R312.1.2)
	Triangle formed by riser, tread, and bottom element of guardrail does not allow passage of a 6- inch sphere. (R312.1.3, Exception1)
	Open sides of stairs with a total rise of 30 inches above the floor or grade below have guards a minimum 36 inches in height when measured vertically from the stair nosing to the top of the guard. (R312.1.2)
	Handrails and guards are capable of withstanding 200 pounds applied in any direction at any point on the rail. (IRC Table 301.5)
	Handrails are installed on stairs with 4 or more risers. (R311.7.8)
	Handrails are installed 34 inches minimum and 38 inches maximum, measured vertically from the sloped plane adjoining the tread nosing or finish surface of ramp slope. (R311.7.8.1)
	Type I handrails. See Tip Sheet 2.
2.	With circular cross sections 1-1/4 inches to 2 inches diameter. (R311.7.8.5, Item 1) With noncircular cross sections have a perimeter dimension of 4 inches to 6-1/4 inches th a maximum cross section of 2-1/4 inches. (R311.7.8.5, Item 1) Handrail returns to wall or newel post/safety terminals maximum 4-1/2 inches off wall with minimum 1-1/2 inches clear space from inside of rail to wall. (R311.7.8.3.2, R311.7.8.3, R311.7.8.3.4)
Smok	ce Alarms/Automatic Sprinkler Systems
	Smoke alarms are required as for new dwellings when interior alterations, repairs or additions requiring a building permit occur. See applicable exceptions. (R314.2.2)
	Alarms are interconnected and hard wired unless the area of work does not result in the removal of interior wall or ceiling finishes exposing the structure unless there is an attic, crawl space, or basement available which could provide access for the hard wiring. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm. (R314.4) Smoke alarms at every floor level, in each bedroom, and in hallways serving bedrooms.
	(R314.3, NFPA 72) Smoke alarms shall be listed and installed in accordance with the provisions of this code





 and the household fire warning equipment provisions of NFPA 72. (R314.1) Carbon monoxide detectors shall be installed at every floor level and adjacent to sleepi areas. (R315.3) Final inspection for automatic sprinkler system (where required) approved prior to build final. See jurisdiction for details. 	
 Windows and Glazing □ Bedroom window sills are not more than 44 inches from floor to bottom of window opening. Windows have a clear opening of 5.7 square feet minimum, 20 inches minimum in width, and 24 inches minimum in height. Grade floor openings may have a minimum square feet clear opening. (R310.2.1, R310.2.2) □ Emergency escape and rescue openings must be operational from the inside without the use of keys, tools, or special knowledge. (R310.1.1) □ Safety glazing installed in hazardous locations is marked with type and thickness. Marking acid etched, sandblasted, ceramic-fired, embossed or made by other permanent means. (R308.1) □ Safety glazing is installed at hazardous locations (R308.4): 	5 ne
 Glazing in swinging doors except jalousies. Glazing in fixed and sliding panels of sliding door assemblies and panels in sliding and bifold closet door assemblies. Glazing in storm doors. Glazing in all unframed swinging doors. Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtub and showers. Glazing in any portion of a building wall enclosing these compartments whe the bottom exposed edge of the glazing is less than 60 inches above any standing or walking surface. Glazing in fixed or operable panels adjacent to a door where the nearest vertical edge is 	os ere
within a 24 inches arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches above the walking surface. Except where there is an intervening wall or partition between door and glazing or where t door accesses a closet 3 feet or less in depth. 7. Glazing in an individual fixed or operable panel, when all of the following apply: 7.1Exposed area of an individual pane greater than 9 square feet 7.2Bottom edge less that 18 inches above the floor. 7.3Top edge greater than 36 inches above the floor. 7.4One or more walking surfaces within 36 inches horizontally of the glazing. Exception: Where a protective 1-1/2 inches wide bar is installed on the accessible side of the glazing 34 inches to 38 inches above the floor and capable of withstanding a load of 50lbs per linearfoot. 8. Glazing in railings regardless of area or height above a walking surface. Includes structural baluster panels and nonstructural in-fill panels. (R308.4.4) 9. Glazing in walls and fences enclosing indoor and outdoor swimming pools, hot tubs and spas where the bottom edge of the glazing is less than 60 inches above a walking surface and within 60 inches horizontally of the water's edge. (R308.4.5) 10.Glazing adjacent to stairways, landings and ramps within 36 inches horizontally of a	the an s





walking surface when the exposed surface of the glass is less than 36 inches above the plane of the adjacent walking surface. (R308.4.6)

11. Glazing adjacent to stairways within a 60-inch arc horizontally of the bottom tread of a stairway less than 180 degrees from the bottom tread nosing, when the exposed surface of the glass is less than 36 inches above the nose of the tread. Exception: When the side of stair, landing or ramp has a guard or handrail with balusters or in-fill panels and the plane of the glass is more than 18 inches from the railing. (R308.4.7) See Tip Sheet 19.