



Success with 2014 Florida Building Code,
Energy Conservation
Checklist for Builders & Trades

HVAC INSTALLATION





HVAC INSTALLATION

CHECKLIST: JOB READY

| RECOMMENDED PRACTICES + CODE REFERENCE | ✓ | ✗ | N/A |
|--|--------------------------|--------------------------|--------------------------|
| 1. Attic platforms allow for full amount of required insulation levels underneath. Code Reference: 2014 FBC, Energy Conservation Table 402.1.1: Insulation levels | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. All walls separating conditioned and unconditioned spaces shall provide the required R-value, have a top plate, bottom plate and an exterior air barrier. <i>RECOMMENDED: RIGID AIR BARRIER</i> Code Reference: 2014 FBC, Energy Conservation Table 402.4.1.1: Air barrier and insulation installation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. All walls separating conditioned and unconditioned spaces have an interior air barrier. <i>RECOMMEND: RIGID AIR BARRIER</i> Code Reference: 2014 FBC, Energy Conservation Table 402.4.1.1: Air barrier and insulation installation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. All dropped ceilings/soffits, shafts and chases are capped with an air barrier and sealed. Code Reference: 2014 FBC, Energy Conservation Table 402.4.1.1: Air barrier and insulation installation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. All floor systems within the conditioned envelope have air-sealed rim/band joists or blocking sealing and separating conditioned from unconditioned space. Code Reference: 2014 FBC, Energy Conservation Table 402.4.1.1: Air barrier and insulation installation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Manual J load calculations or an equivalent method are geometrically consistent with the construction documents and complete for the dwelling unit. Code Reference: 2014 FBC, Residential M1401.3: Equipment Sizing, 2014 FBC, Energy Conservation 403.6: Equipment Sizing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Specified HVAC equipment is selected based on the ACCA Manual S or other approved equipment selection method. Code Reference: 2014 FBC, Residential M1401.3: Equipment Sizing, 2014 FBC, Energy Conservation 403.6: Equipment Sizing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Whole-house mechanical ventilation strategy and ventilation rate are selected based on 2014 FBC - Energy Conservation and 2014 FBC - Residential. Code Reference: 2014 FBC, Energy Conservation 403.5: Mechanical ventilation, 2014 FBC, Residential R303.4: Mechanical ventilation, 2014 FBC, Residential M1507.3: Whole-house mechanical ventilation system | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



HVAC INSTALLATION CHECKLIST: JOB READY

BUILDER VERIFICATION

✓ ✗

Stop work until details are corrected.

Proceed without corrections.

The sub-contractor who signs and completes this form is doing so to the best of his/her knowledge and should not be held legally responsible for work completed by other organizations. The intent of this form is to ensure job sites are ready before beginning work.

Signature:

Date:



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|--|--------------------------|--------------------------|--------------------------|
| 1. When following the prescriptive path, do not install the air handler in the attic. Code Reference: 2014 FBC, Energy Conservation 403.2.4: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. When following the performance path and installing the air handler in the attic space, the requirements and warning note in Section 403.2.4 are done. Code Reference: 2014 FBC, Energy Conservation 403.2.4: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Seal all duct terminations to drywall and all HVAC penetrations in the building envelope with foam, caulk or mastic. Use fire-stop systems where applicable. Code Reference: 2014 FBC, Energy Conservation Table 402.4.1.1: Air barrier and insulation installation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Seal all HVAC components at all joints, seams and corners. Code Reference: 2014 FBC, Energy Conservation 403.2.2: Duct sealing, 2014 FBC, Residential M1601.4.1: Duct sealing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Mechanically fasten all metal ductwork with screws. Attach the inner liner of flexible ducts with nylon/plastic straps and tighten with a manufacturer-approved tool. Code Reference: 2014 FBC, Residential M1601.4.1: Duct sealing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Insulate all supply duct work in unconditioned attics to R-8. Insulate all other duct work outside of conditioned space to R-6. Code Reference: 2014 FBC, Energy Conservation 403.2.1: Duct insulation, 2014 FBC, Residential M1601.4.5: Duct insulation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Do not compress insulated flexible ducts more than the thickness of the insulation. Code Reference: 2014 FBC, Energy Conservation 403.2.1: Duct insulation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Support flexible duct (including ventilation) at least every 4 feet and do not bend greater than 90°. Code Reference: 2014 FBC, Residential M1601.4.3: Duct supports | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Install a whole-house ventilation strategy to meet FBC - Energy Conservation and FBC - Residential. Code Reference: 2014 FBC, Energy Conservation 403.5: Mechanical ventilation, 2014 FBC, Residential R303.4: Mechanical ventilation, 2014 FBC, Residential M1507.3: Whole-house mechanical ventilation system | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Install outside air ventilation intakes at least 10 feet from any exhaust vent or stack. Code Reference: 2014 FBC, Residential 303.4.5.1: Outside air intake locations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



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| 11. Coordinate bath fan exhaust duct direction with the electrical contractor. Code Reference: None | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Terminate all exhaust ventilation ducts to the outside. Install screens where applicable. Code Reference: 2014 FBC, Residential 306.6 Outside opening protection | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. For heat pumps, install a heat strip lockout that prevents electrical supplemental heat operation below the outdoor temperature balance point. Verify system will defrost. Code Reference: 2014 FBC, Energy Conservation 403.1.3: Heat pump electric heat controls | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Do not install gas lighting systems that has a continuously burning pilot light. Code Reference: 2014 FBC, Energy Conservation 404.1.1: Equipment lighting systems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. For furnaces, install a programmable thermostat. Code Reference: 2014 FBC, Energy Conservation 403.1.2: Programmable thermostat | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Install R-3 insulation around all HVAC system piping that carry fluids above 105°F or below 55°F. Code Reference: 2014 FBC, Energy Conservation 403.3: Mechanical pipe insulation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Install water heaters that meet requirements listed in 2014 FBC, Energy Conservation Table C404.2 Code Reference: 2014 FBC, Energy Conservation Table C404.2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

CERTIFICATION

The sub-contractor who signs and completes this form is doing so to the best of his/her knowledge and should not be held legally responsible for work completed by other organizations.

Name:

Company:

Signature: