



Success with 2009 IECC in South Carolina:
Checklists for Builders

HVAC INSTALLATION





JOB READY:

HVAC INSTALLATION

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N/A



1. Attic framing allows full level of insulation to be installed under attic platforms.



2. For walls separating conditioned and unconditioned space, framing that allows for the required R-value, has a top plate, bottom plate and an exterior rigid sheathing is installed.



3. For walls that will not have an interior finish and are separating conditioned and unconditioned spaces, wall cavities are insulated and an interior rigid air barrier is installed.



4. All dropped ceilings/soffits, shafts and chases are capped with a rigid air barrier and air seal.



5. All floor systems within the conditioned envelope have a band or blocking separating conditioned and unconditioned space.



6. Manual J Load calculations or an equivalent method are accurate and complete for the dwelling unit.



7. Right sized equipment is selected based on the ACCA Manual S or other approved equipment selection method.



8. Ensure work site is clean and construction materials are properly stored before proceeding.

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



JOB COMPLETE:

HVAC INSTALLATION

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N/A



1. Seal all duct terminations to drywall and/or subfloor and all HVAC penetrations in the building envelope with foam, caulk or mastic. Use fire-rated sealants where applicable.



2. Seal all HVAC components at all joints, seams and corners with bucket mastic.



3. 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.



4. Insulate all supply duct work in unconditioned space to R-8. Insulate all return duct work to R-6. If exterior insulation, mechanically fasten duct insulation with straps and seal all joints and seams of vapor retarder.



5. Do not compress insulated flexible ducts more than the thickness of the insulation.



6. Support flexible duct (including spot ventilation) at least every 4 feet and do not bend greater than 90°.



7. Install outside air ventilation intakes at least 10 feet from any exhaust vent or stack.



8. Coordinate bath fan exhaust duct direction with Electrical Contractor.



9. Terminate exhaust ventilation duct work to the outside and install a screen over the termination.



10. For heat pumps, install a heat strip outdoor temperature lockout that prevents supplemental heat operation and set it to the balance point.



11. For furnaces, install a programmable thermostat.



12. Ensure work site is clean and construction materials are properly stored before proceeding.

Certification

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Name

Company

Signature