



Success with 2015 IECC Northeast & Mid-Atlantic  
*Checklist for Builders & Trades*

# HVAC INSTALLATION





# HVAC INSTALLATION CHECKLIST: JOB READY

RECOMMENDED PRACTICES + CODE REFERENCE	✓	✗	N/A
<b>1. Framing allows full level of insulation to be installed under attic platforms.</b> Code Reference: 2015 IECC Table R402.1.2: Insulation levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2. For walls separating conditioned and unconditioned space, framing allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. <i>RECOMMENDED: RIGID AIR BARRIER</i></b> Code Reference: 2015 IECC Table R402.4.1.1: Air barrier and insulation installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3. All walls separating conditioned and unconditioned space will allow for required R-value.</b> Code Reference: 2015 IECC Table R402.4.1.1: Air barrier and insulation installation, 2015 IECC R103.2: Information on construction documents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4. For walls that will not have an interior finish and are separating conditioned and unconditioned spaces, wall cavities are insulated and an interior air barrier is installed. <i>RECOMMENDED: RIGID AIR BARRIER</i></b> Code Reference: 2015 IECC Table R402.4.1.1: Air barrier and insulation installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5. All dropped ceilings/soffits, shafts and chases are capped with an air barrier and sealed. <i>RECOMMENDED: RIGID AIR BARRIER</i></b> Code Reference: 2015 IECC Table R402.4.1.1: Air barrier and insulation installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6. All floor systems within the conditioned envelope have a band or blocking separating conditioned and unconditioned space. <i>RECOMMENDED: RIGID AIR BARRIER</i></b> Code Reference: 2015 IECC Table R402.4.1.1: Air barrier and insulation installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7. Selected bath fans will exhaust at least 50 CFM intermittently or 20 CFM continuously when installed and meet the efficacy requirements.</b> Code Reference: 2012 IRC M1507.3: Exhaust fan rate, 2015 IECC Table R403.6.1: Mechanical System Fan Efficacy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8. Manual J load calculations or an equivalent method are accurate and complete for the dwelling unit.</b> Code Reference: 2012 IRC M1401.3: Equipment Sizing, 2015 IECC R403.7 Equipment Sizing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9. Right-sized equipment is selected based on the ACCA Manual S or other approved equipment selection method.</b> Code Reference: 2012 IRC M1401.3: Equipment Sizing, 2015 IECC R403.7 Equipment Sizing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# HVAC INSTALLATION CHECKLIST: JOB READY

## RECOMMENDED PRACTICES + CODE REFERENCE

✓ ✗ N/A

### Whole-house mechanical ventilation strategy and rate are selected.

10. Code Reference: 2015 IECC R403.5: Mechanical ventilation, 2012 IRC R303.4: Mechanical ventilation, 2012 IRC M1507.3: Whole-house mechanical ventilation system

## 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:

## ADDITIONAL ITEMS

- |                           |   |
|---------------------------|---|
| <b>2015 IECC R403.3.5</b> | Building framing cavities shall not be used as ducts or plenums |
| <b>2015 IECC R403.6</b>   | Ventilation dampers   |
| <b>2015 IECC R403.8</b>   | Systems serving multiple units                                  |



# HVAC INSTALLATION

## CHECKLIST: JOB COMPLETE

### RECOMMENDED PRACTICES + CODE REFERENCE

✓ ✗ N/A

<p><b>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.</b> Code Reference: 2015 IECC Table R402.4.1.1: Air barrier and insulation installation</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>2. Seal all HVAC components at all joints, seams and corners.</b> Code Reference: 2015 IECC R403.3.2: Duct sealing, 2012 IRC M1601.4.1: Duct sealing</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>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.</b> Code Reference: 2012 IRC M1601.4.1: Duct sealing</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>4. Insulate all supply duct work in unconditioned attics to R-8. Insulate all other duct work outside of conditioned space to R-6.</b> Code Reference: 2015 IECC R403.3.1: Duct insulation, 2012 IRC M1601.4.5: Duct insulation</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>5. Do not compress insulated flexible ducts more than the thickness of the insulation.</b> Code Reference: 2015 IECC R403.2.1: Duct insulation</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>6. Support flexible duct (including ventilation) at least every 4 feet and do not bend greater than 90°.</b> Code Reference: 2012 IRC M1601.4.3: Duct supports</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>7. Install a whole-house ventilation strategy.</b> Code Reference: 2015 IECC R403.6: Mechanical ventilation, 2012 IRC R303.4: Mechanical ventilation, 2012 IRC M1507.3: Whole-house mechanical ventilation system</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>8. Install outside air ventilation intakes at least 10 feet from any exhaust vent or stack.</b> Code Reference: 2012 IRC R303.5.1: Outside air intake locations</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>9. Coordinate bath fan exhaust duct direction with the electrical contractor.</b> Code Reference: None</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>10. Terminate all exhaust ventilation ducts to the outside. Install screens where applicable.</b> Code Reference: 2012 IRC R303.5: Opening locations</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# HVAC INSTALLATION CHECKLIST: JOB COMPLETE

## RECOMMENDED PRACTICES + CODE REFERENCE

✓ ✗ N/A

<p><b>11. For heat pumps, install a heat strip outdoor temperature lockout that prevents supplemental heat operation and set it to the balance point. Verify system will defrost.</b> Code Reference: 2015 IECC R403.1.2: Heat pump electric heat controls</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>12. Do not install a gas lighting systems that has a continuously burning pilot light.</b> Code Reference: 2015 IECC R404.1.1: Lighting equipment</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>13. For furnaces, install a programmable thermostat.</b> Code Reference: 2015 IECC R403.1.1: Programmable thermostat</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>14. Install minimum R-3 insulation around all HVAC system piping that carry fluids above 105°F or below 55°F.</b> Code Reference: 2015 IECC R403.4: Mechanical pipe insulation</p>	<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. The intent of this form is to ensure job sites are ready before beginning work.

Name:

Company:

Signature: