



Success with 2009 IECC in South Carolina:
Tech Tips for Builders

FRAMING



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TECH TIPS: FRAMING

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2. Frame attic to allow the full amount of required insulation under attic platform.

INSUFFICIENT DEPTH



SUFFICIENT DEPTH

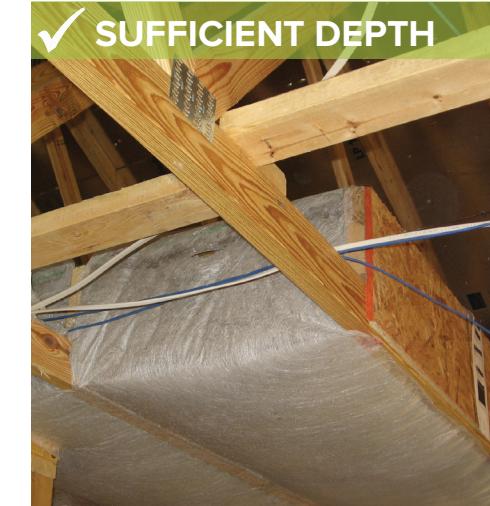


2. Frame attic to allow the full amount of required insulation under attic platforms.

INSUFFICIENT DEPTH



SUFFICIENT DEPTH



3. Frame corners and headers to allow for insulation installation.

WRONG FRAMING

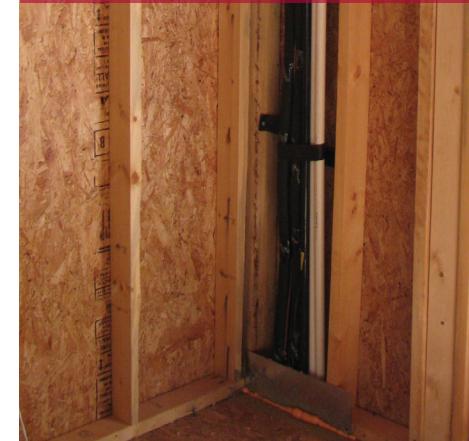


RIGHT FRAMING



3. Frame corners and headers to allow for insulation installation.

WRONG FRAMING



RIGHT FRAMING





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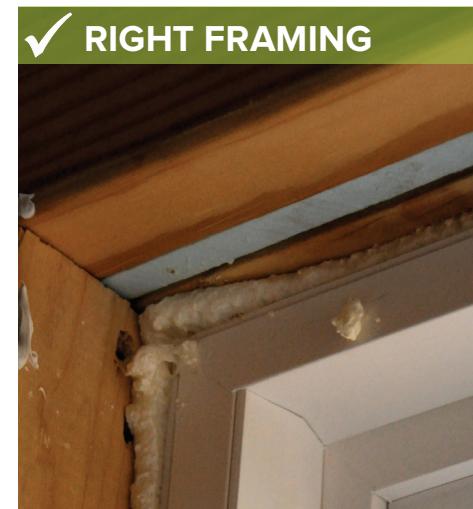
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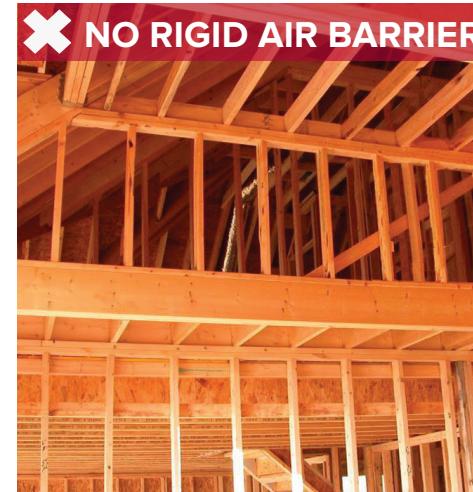
4. For walls separating conditioned and unconditioned space, install framing that allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. RECOMMENDED: rigid air barrier.



3. Frame corners and headers to allow for insulation installation.



4. For walls separating conditioned and unconditioned space, install framing that allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. RECOMMENDED: rigid air barrier.





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- 4.** For walls separating conditioned and unconditioned space, install framing that allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. RECOMMENDED: rigid air barrier.

✗ NO RIGID AIR BARRIER



✓ RIGID AIR BARRIER



- 5.** For walls that will not have an interior finish and are separating conditioned and unconditioned spaces, insulate wall cavities and install an interior air barrier. RECOMMENDED: rigid air barrier.

✗ NO AIR BARRIER



✓ AIR BARRIER

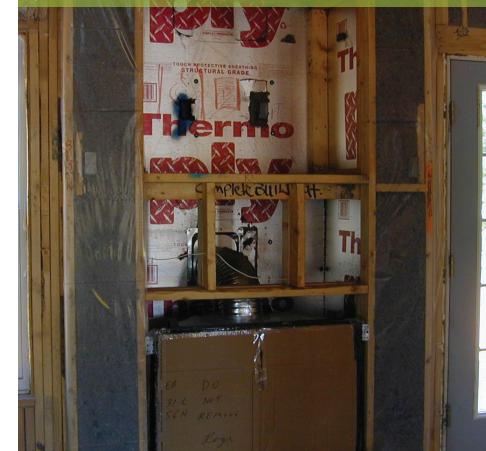


- 5.** For walls separating conditioned and unconditioned space, install framing that allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. RECOMMENDED: rigid air barrier.

✗ NO INSULATION



✓ WALL INSULATED



- 5.** For walls that will not have an interior finish and are separating conditioned and unconditioned spaces, insulate wall cavities and install an interior air barrier. RECOMMENDED: rigid air barrier.

✗ NO AIR BARRIER



✓ AIR BARRIER





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- 5.** For walls that will not have an interior finish and are separating conditioned and unconditioned spaces, insulate wall cavities and install an interior air barrier. RECOMMENDED: rigid air barrier.

✗ NO AIR BARRIER



✓ AIR BARRIER



- 6.** Cap all dropped ceilings/soffits, shafts and chases with an air barrier and air seal. RECOMMENDED: rigid air barrier.

✗ SOFFIT UNCAPPED



✓ SOFFIT CAPPED



- 6.** Cap all dropped ceilings/soffits, shafts and chases with an air barrier and air seal. RECOMMENDED: rigid air barrier.

✗ SOFFIT UNCAPPED



✓ SOFFIT CAPPED



- 6.** Cap all dropped ceilings/soffits, shafts and chases with an air barrier and air seal. RECOMMENDED: rigid air barrier.

✗ CHASE UNCAPPED



✓ CHASE CAPPED





TECH TIPS: FRAMING

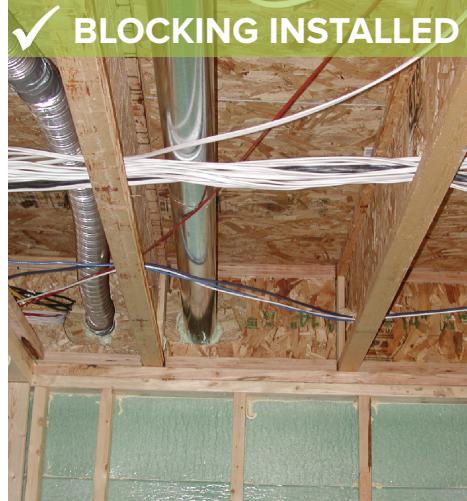
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- 7.** For all floor systems within the conditioned envelope, install a band or blocking separating conditioned and unconditioned space.
RECOMMENDED: rigid air barrier.

✗ NO BLOCKING



✓ BLOCKING INSTALLED

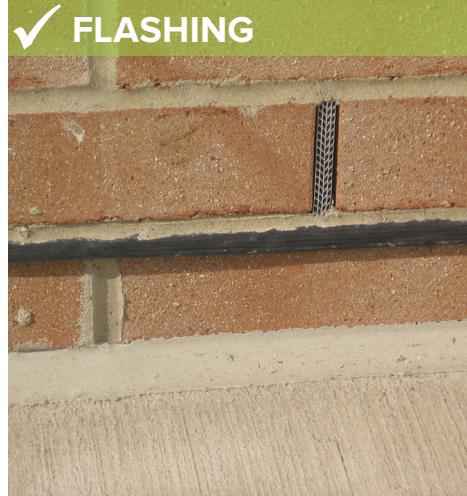


- 9.** Install flashing at the bottom of all exterior walls and at roof-wall connections.

✗ NO FLASHING



✓ FLASHING

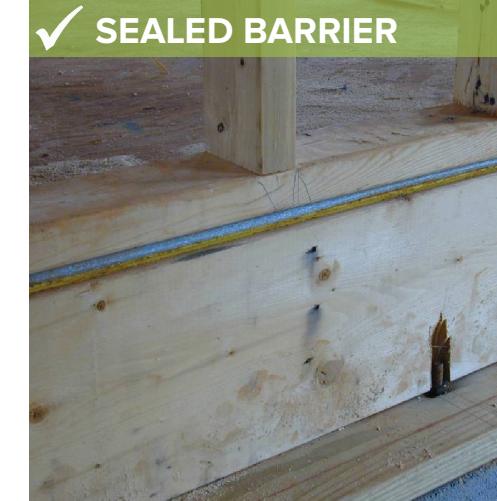


- 8.** For cantilevers, insulate, attach an air barrier to the underside and air seal. This air barrier can be the exterior finish material if it is airtight.
RECOMMENDED: rigid air barrier.

✗ NO RIGID AIR BARRIER



✓ SEALED BARRIER



- 9.** Install flashing at the bottom of all exterior walls and at roof-wall connections.

✗ NO FLASHING



✓ FLASHING INSTALLED





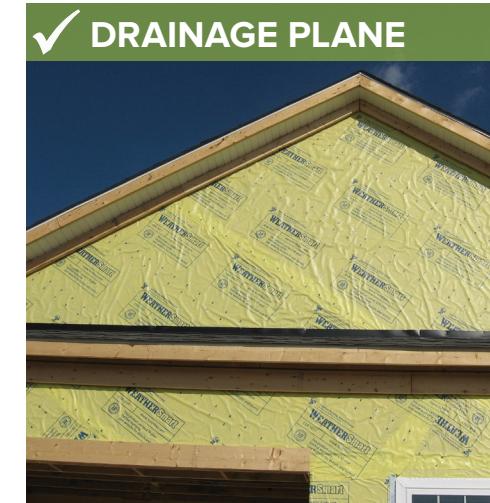
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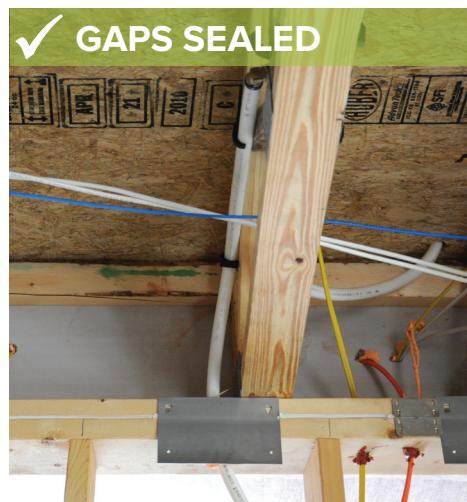
- 9.** Install flashing at the bottom of all exterior walls and at roof-wall connections.



- 10.** Install an overlapped drainage plane on all exterior walls (i.e. building wrap).



- 11.** Air seal all gaps and voids between conditioned and unconditioned spaces.



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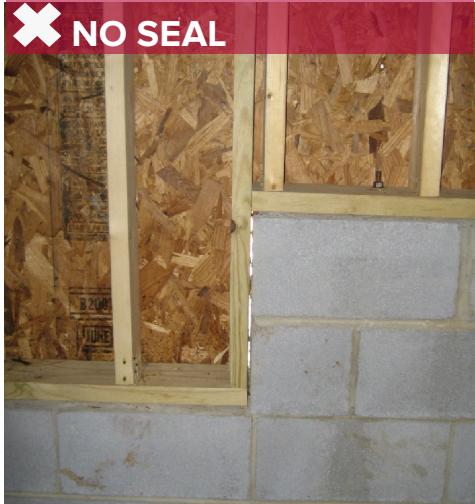
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11. Air seal all gaps and voids between conditioned and unconditioned spaces.

✗ NO SEAL



✓ CAULK INSTALLED

