



Success with 2009 IECC:  
*Tech Tips for Builders*

# FRAMING



Copyright ©2014 Advanced Energy. All Rights Reserved





# TECH TIPS: FRAMING

Success with 2009 IECC for Builders

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

### ✗ INSUFFICIENT DEPTH



### ✓ SUFFICIENT DEPTH

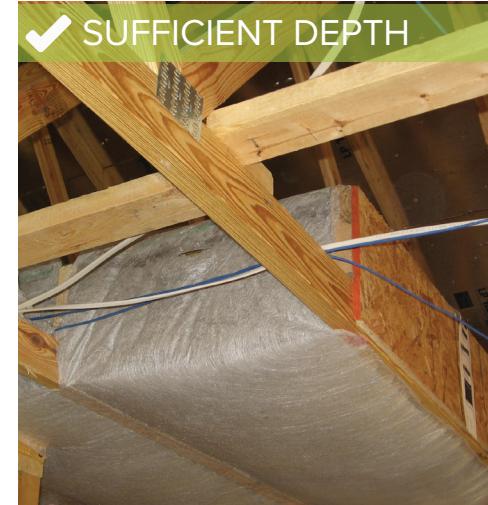


2. Frame attic to allow the full amount of required insulation under attic platforms.

### ✗ INSUFFICIENT DEPTH



### ✓ SUFFICIENT DEPTH



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

### ✗ WRONG FRAMING

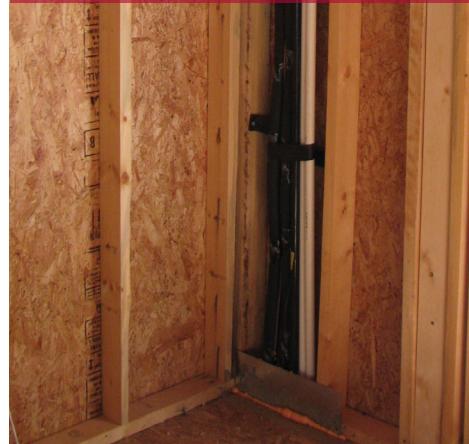


### ✓ RIGHT FRAMING



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

### ✗ WRONG FRAMING



### ✓ RIGHT FRAMING



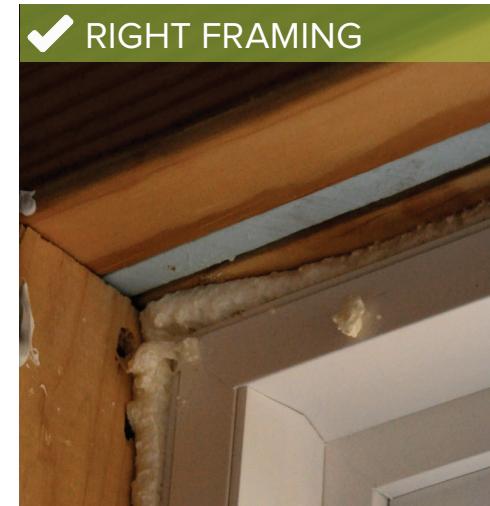
TECH TIPS:  
FRAMING

Success with 2009 IECC for Builders

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



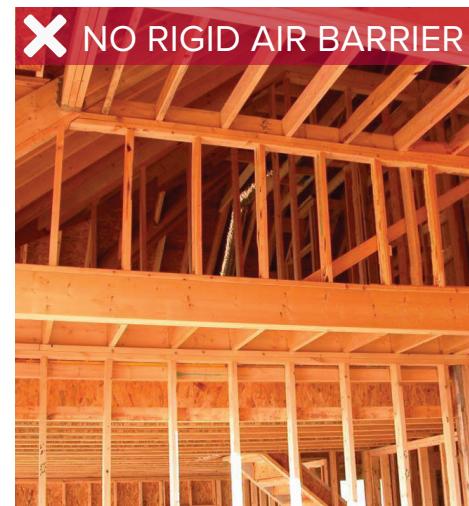
3. Frame corners and headers to allow for insulation installation.



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.



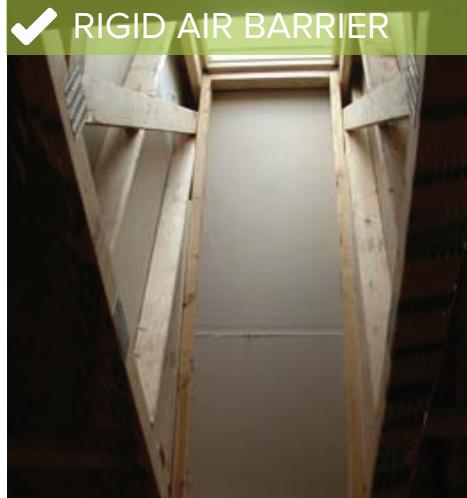
4. For walls separating conditioned and unconditioned space, install framing that allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. RECOMMENDED: rigid air barrier.



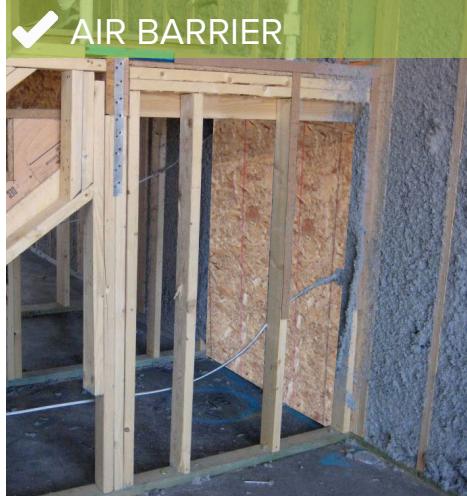
TECH TIPS:  
FRAMING

Success with 2009 IECC for Builders

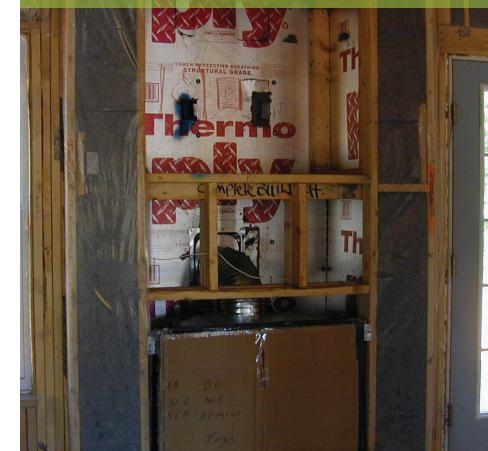
4. For walls separating conditioned and unconditioned space, install framing that allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. RECOMMENDED: rigid air barrier.

**X 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.

**X 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.

**X 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.

**X NO AIR BARRIER****✓ AIR BARRIER**



# TECH TIPS: FRAMING

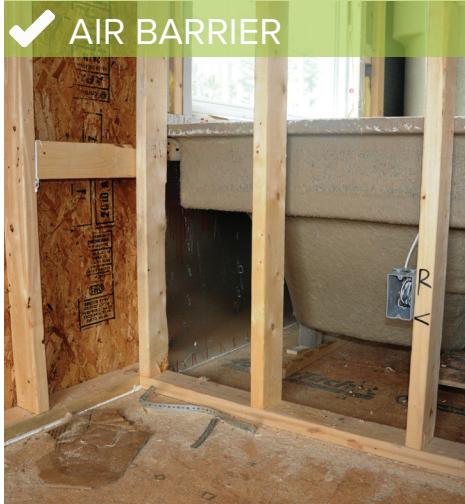
Success with 2009 IECC for Builders

- 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

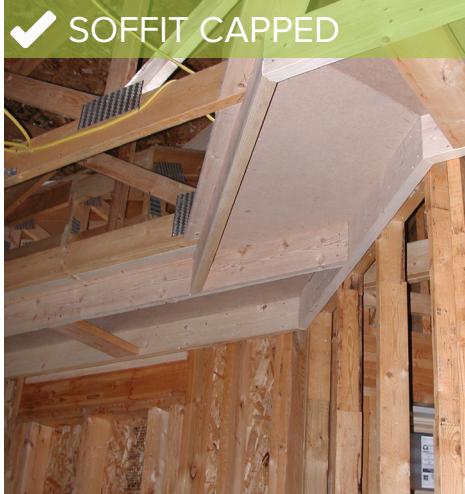


- 6.** Cap all dropped ceilings/soffits, shafts and chases with an air barrier and air seal. RECOMMENDED: rigid air barrier.

## ✗ 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



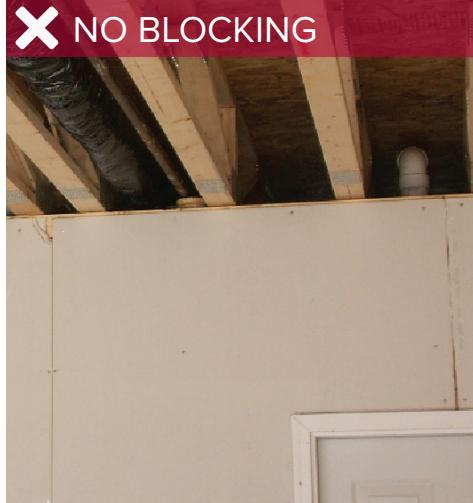


# TECH TIPS: FRAMING

Success with 2009 IECC for Builders

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

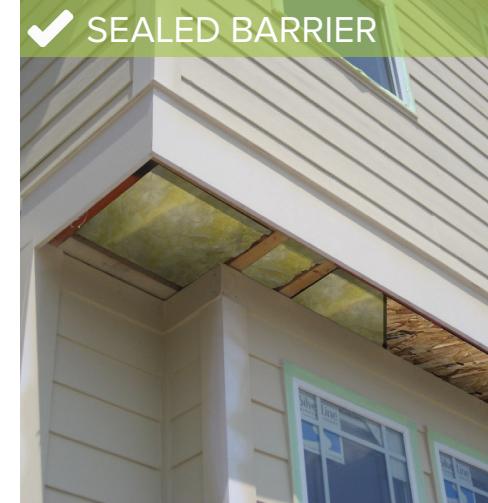


8. For cantilevers, insulate, attach an air barrier to the underside and air seal. This air barrier can be the exterior finish material if it is airtight.  
RECOMMENDED: rigid air barrier.

## ✗ NO RIGID AIR BARRIER



## ✓ SEALED BARRIER

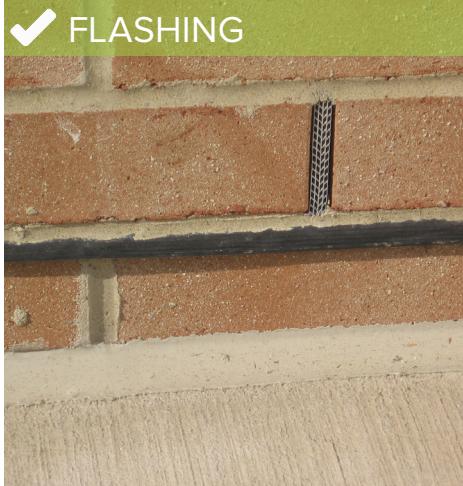


9. Install flashing at the bottom of all exterior walls and at roof-wall connections.

## ✗ NO FLASHING



## ✓ FLASHING

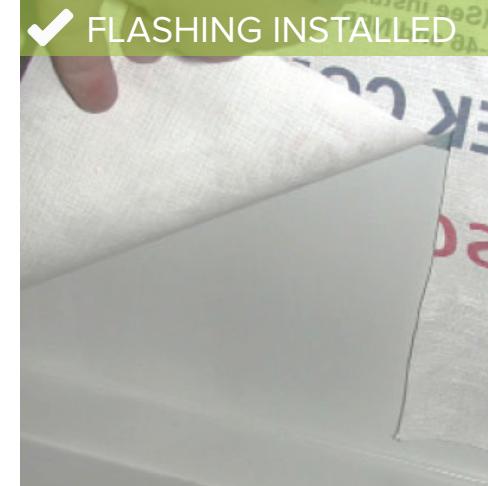


9. Install flashing at the bottom of all exterior walls and at roof-wall connections.

## ✗ NO FLASHING



## ✓ FLASHING INSTALLED





# TECH TIPS: FRAMING

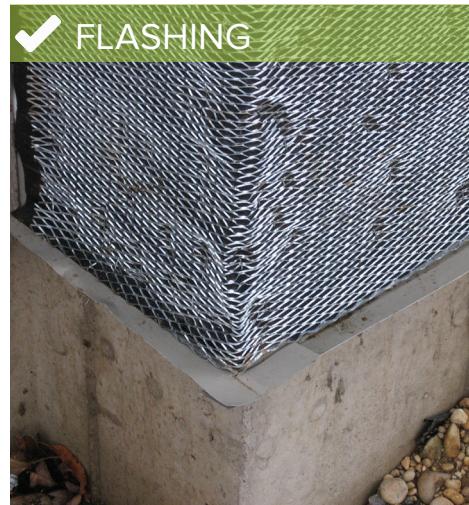
Success with 2009 IECC for Builders

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

## ✗ NO FLASHING



## ✓ FLASHING

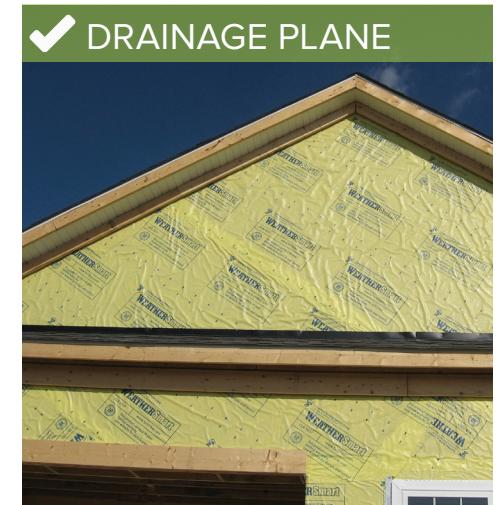


10. Install an overlapped drainage plane on all exterior walls (i.e. building wrap).

## ✗ NO DRAINAGE PLANE



## ✓ DRAINAGE PLANE

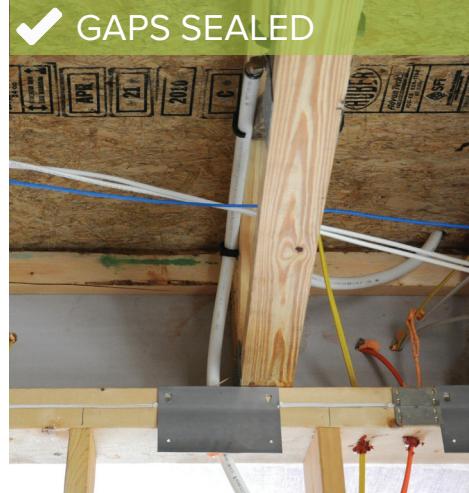


11. Air seal all gaps and voids between conditioned and unconditioned spaces.

## ✗ GAPS

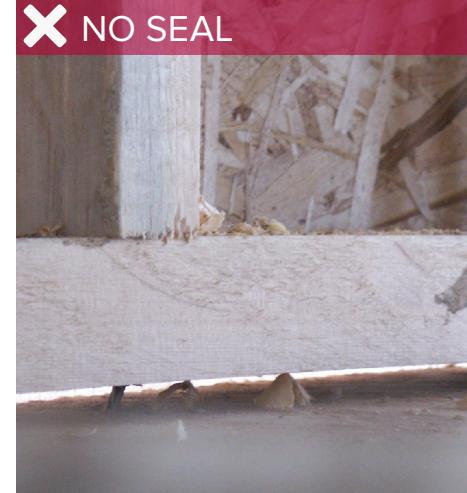


## ✓ GAPS SEALED

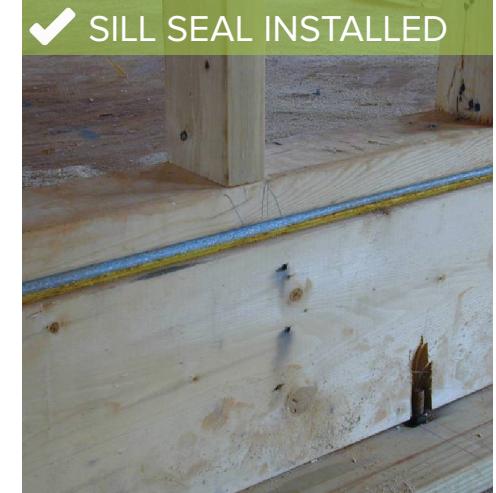


11. Air seal all gaps and voids between conditioned and unconditioned spaces.

## ✗ NO SEAL



## ✓ SILL SEAL INSTALLED





# TECH TIPS: FRAMING

Success with 2009 IECC for Builders

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

