



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

# ELECTRICAL

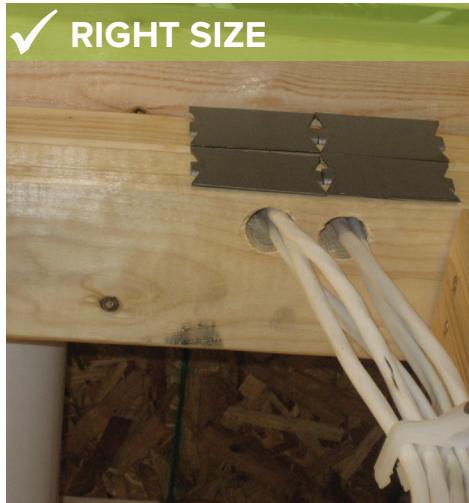




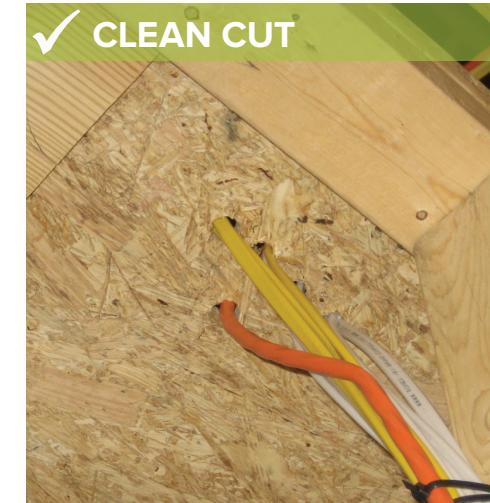
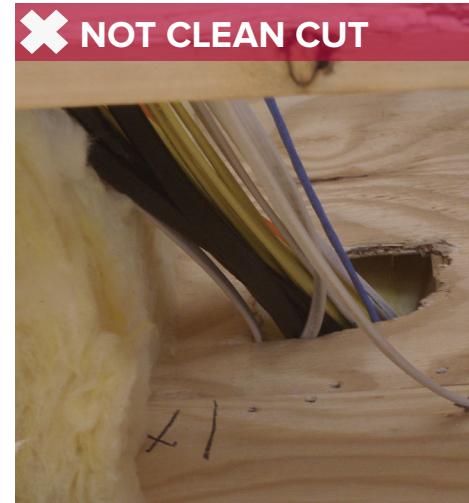
# TECH TIPS: ELECTRICAL

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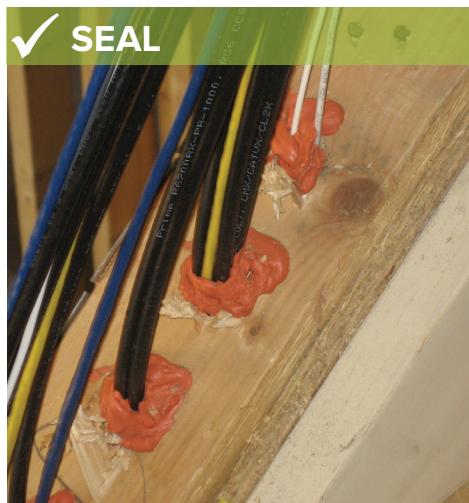
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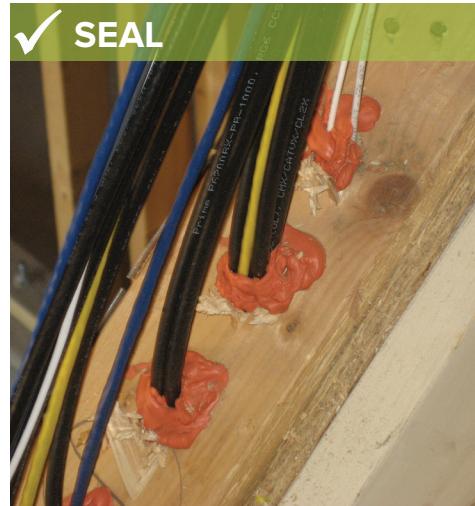
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- 2.** Air seal electrical penetrations between conditioned and unconditioned space. Use fire-rated sealants where applicable.

## ✗ NO SEAL

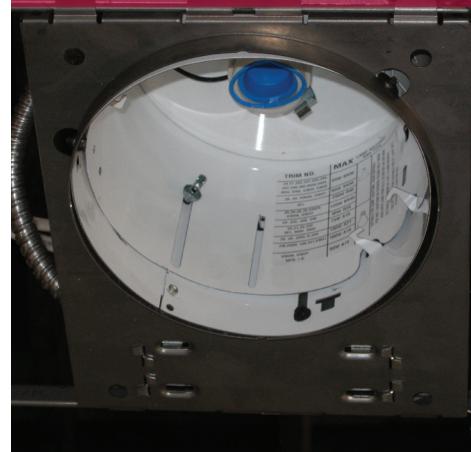


## ✓ SEAL



- 3.** Install recessed lighting fixtures that are insulation-contact rated (IC), sealed to drywall with caulk foam or gasket, and are airtight or are located in an airtight sealed box.

## ✗ NOT IC AND AIR TIGHT



## ✓ IC AND AIR TIGHT

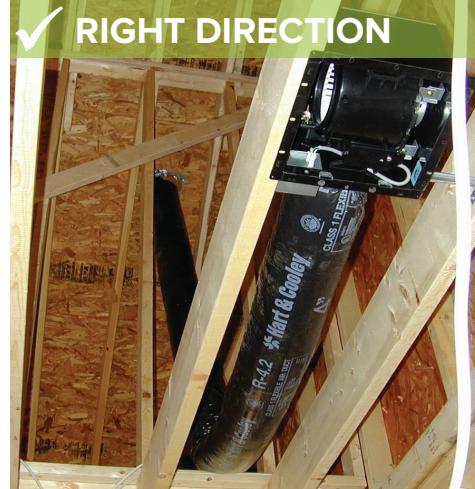


- 4.** Coordinate bath fan exhaust duct direction with HVAC Contractor.

## ✗ WRONG DIRECTION



## ✓ RIGHT DIRECTION



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# CRITICAL DETAIL: DUCT SEALING PLENUMS

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It is recommended to seal all joints in the air distribution system with bucket duct mastic and fabric mesh.

The tester will be measuring the total duct leakage and the duct leakage to the outside at CFM at 25 Pa (with reference to the outside).

## ✓ MASTIC PLENUM



## ✓ MASTIC COLLAR



## ✓ INSTALL ZIP TIE



## ✓ MASTIC CONNECTION



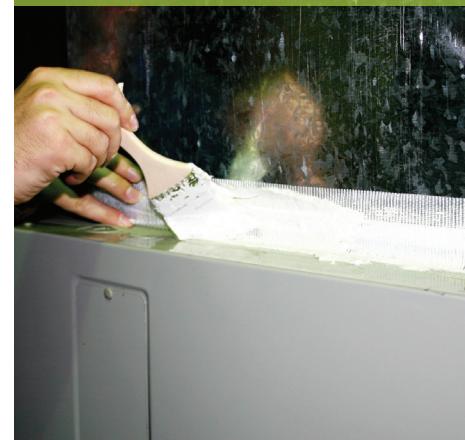
## ✓ INSULATE COLLAR



## ✓ SEAL SEAMS



## ✓ MASTIC AIR HANDLER



## ✓ USE BUCKET MASTIC

