



Success with 2012 NC Energy Conservation Code in North Carolina: *Tech Tips for Builders*

ELECTRICAL



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TECH TIPS: ELECTRICAL

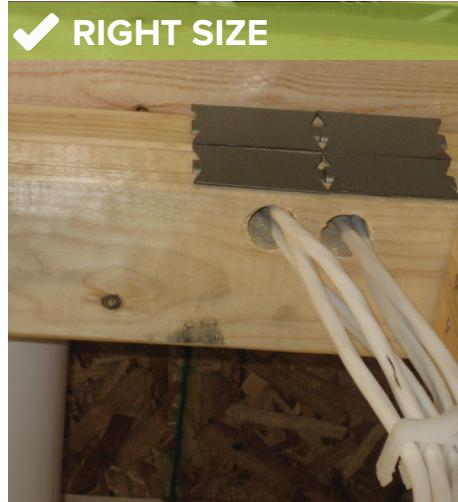
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- Cut all holes cleanly and no more than 1 inch larger than the penetrating object.

WRONG SIZE



RIGHT SIZE

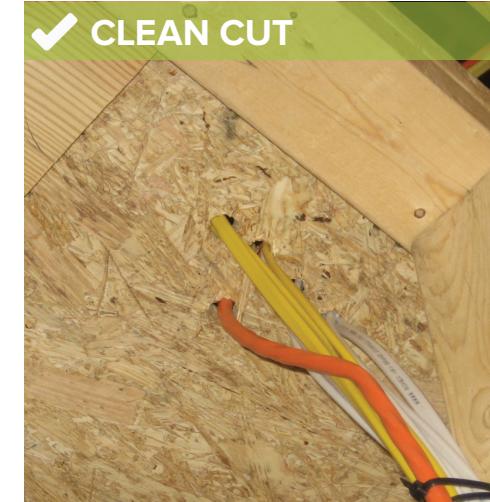


- Cut all holes cleanly and no more than 1 inch larger than the penetrating object.

NOT CLEAN CUT



CLEAN CUT

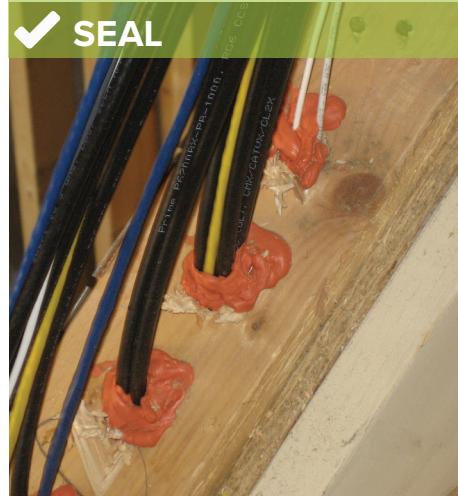


- Air seal electrical penetrations between conditioned and unconditioned space. Use fire-rated sealants where applicable.

INSULATION



SEAL

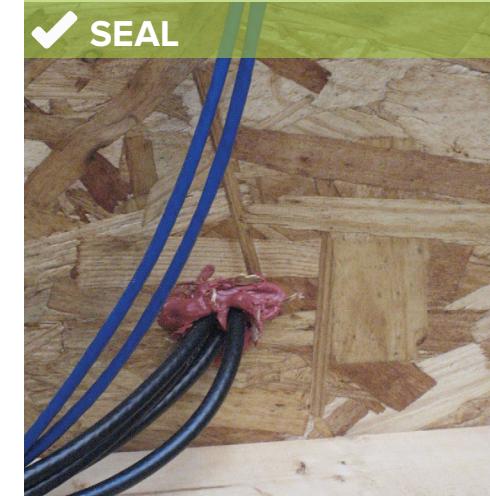


- Air seal electrical penetrations between conditioned and unconditioned space. Use fire-rated sealants where applicable.

NO SEAL



SEAL





TECH TIPS: ELECTRICAL

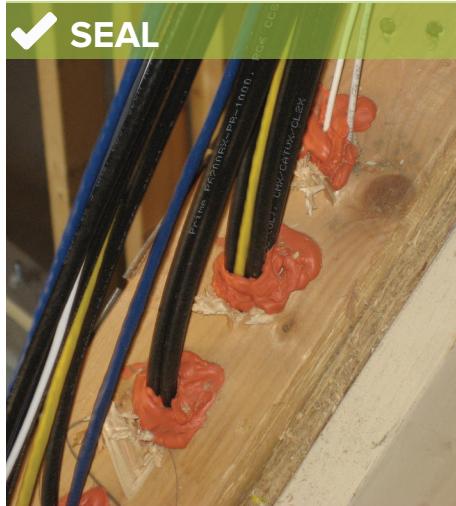
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- 2.** Air seal electrical penetrations between conditioned and unconditioned space. Use fire-rated sealants where applicable.

X 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.

X NOT IC AND AIR TIGHT



✓ IC AND AIR TIGHT

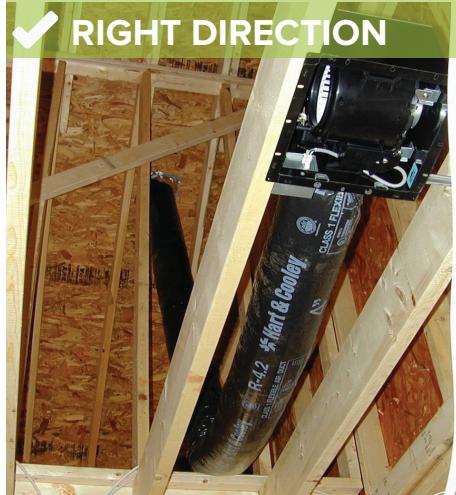


- 4.** Coordinate bath fan exhaust duct direction with HVAC Contractor.

X WRONG DIRECTION

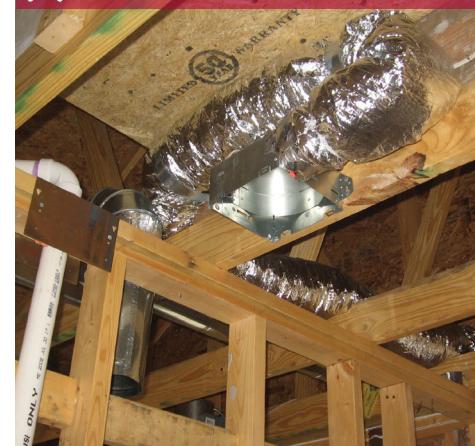


✓ RIGHT DIRECTION



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

X WRONG DIRECTION



✓ RIGHT DIRECTION





TECH TIPS: ELECTRICAL

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5. Install high-efficacy bulbs (e.g. CFLs, LEDs, fluorescent) in 75% of light fixtures.

High Efficacy Bulb Requirements

Bulb (Watt)	Efficiency (lumens/Watt)
≤ 15	40
15 - 40	50
> 40	60

The high-efficacy bulb count is based on the number of lamps and includes both pin-based fixtures (fluorescent tubes and pin-based compacts) and standard screw-base fixtures. The provision applies to indoor spaces and outdoor facades of all residential buildings, including accessory structures and garages.