

# Envelope

## AIR SEALING

**BP**



### Electrical, Duct & Pipe Penetrations

Seal all electrical, duct and pipe penetrations through exterior walls, ceilings, rim joists, top/bottom plates; anywhere air might leak between conditioned and unconditioned space. Use UL rated sealing material.

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### Outlet Boxes

Seal electrical outlet box with UL listed fire rated putty. These boxes inevitably leak. Baby proofing outlet covers used for safety also help stop the air leaks!

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### Exterior Wall Penetrations

Air seal everything that passes through the exterior wall such as plumbing and refrigerant lines with caulk.

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### Crawlspace Penetrations

Seal below tubs and other penetrations to the crawlspace or any unheated area with a durable, rodent and other pest proof barrier.

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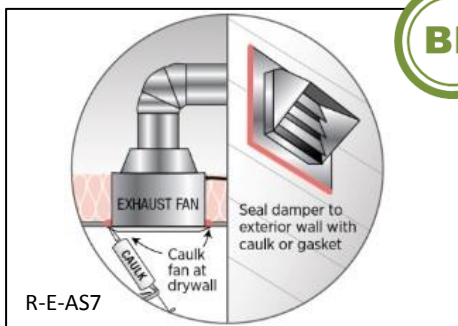
### Rim Joists

Seal the rim joist of crawlspaces, basements and areas between stories in a home. Install insulation with an air barrier and air seal any gaps. Or use closed cell foam which seals and insulates.



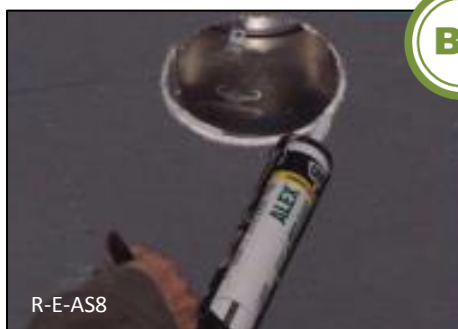
### Window & Door Gaps

Caulk or foam window and door gaps in framing with low expansive foam.



### Exhaust Fans

Fully seal all gaps, penetrations and holes to the attic before insulating. Caulk the drywall to bathroom and kitchen exhaust fan housing.



### Recessed Lighting

Install only IC/AT rated recessed lighting. Insulation Contact Air Tight light fixtures help reduce air leakage and allow attic insulation to cover the fixture, leaving no gaps in the attic insulation. Recessed light fixtures can even leak when installed in the first story of a 2 story home.