

Seal Insulation-Contact Rated Recessed Lights

Job Aid for Air Seal Attic Floor Badge

Aligns with Standard Work Specifications 3.0101.1

BEFORE



Insulation-contact rated recessed lights are commonly installed in the ceiling between the upper story and the attic, meaning gaps around them allow for significant air leakage

AFTER



Apply a bead of caulk to seal the gap between the fixture and ceiling. The small holes in the fixture itself can be sealed by installing a pre-made or commercially available cover over the fixture from the attic. The edges of the cover are then sealed to prevent conditioned air from entering the attic.

CHECKLIST

Air seal attic floor

DESIRED OUTCOME

Holes, penetrations, chases, cracks, gaps, and joints sealed to prevent air leakage and moisture movement between the attic and conditioned space.¹

Job Site Requirements²

- Existing insulation was removed as needed to access air sealing locations.
- All wall cavities are enclosed on all sides (e.g., have top and bottom plates). Additional blocking was installed where necessary.
- The following cracks, penetrations, and chases are sealed according to the work order to prevent air movement with the appropriate materials based on hole sizes according to the MATERIALS GUIDELINES table at right:

- Top plates of all walls
- Tongue and groove ceilings
- Chases
- Dropped soffits
- Recessed lights
- Plumbing vent pipes
- Electrical penetrations
- Exhaust fans
- Dropped ceilings
- Stairwells
- Chimney/flue
- Ductwork penetrations into attic
- Any other holes/penetrations in the attic plane/boundary

AIR SEALING MATERIALS GUIDELINES	
HOLE/GAP SIZE	MATERIALS/NOTES
1/4" or less (small)	Caulk
1/4" to 2" (medium)	One component foam or mastic
2"-3" (large)	Two-component foam
3" or larger (extra-large)	Infill material installed that will not bend, sag, or move Support material (e.g., 2X4) installed for spans wider than 24"

- Work area cleaned.

1. Relevant Standards: 30101.1

2. High-temp areas and attic hatches are addressed in separate badges.