

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

sides (e.g., have top and bottom p	
	o the work order to prevent air movement ATERIALS GUIDELINES table at right:
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"
,	AIR SEALING MATERIALS HOLE/GAP SIZE 1/4" or less (small) 1/4" to 2" (medium) 2"-3" (large)

1. Relevant Standards: 30101.1

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

The Weatherization Installer Job Aids were developed by Simonson Management Services under contract (GS-10F-0065U/89243422FEE400259) and published by the National Renewable Energy Laboratory under contract (DE-AC36-08GO28308) with the U.S. Department of Energy. These job aids were funded by the Weatherization Assistance Program with contributions from the weatherization training network.



For more information, visit: energy.gov/scep

DOE/GO-102023-5934 • June 2024