

Air Seal Beneath the Knee Wall

Job Aid for Seal and Insulate Knee Walls Badge

Aligns With Standard Work Specifications 3.0101.1

BEFORE



Knee walls often define the thermal and pressure boundary and the open joist cavity below requires careful air sealing.



After clearing away debris, measure gap below knee wall in line with pressure boundary.



Cut blocking material (extruded polystyrene, wood, gypsum board) to fit gap.



Securely fit infill or blocking material in place.



Ensure blocking material is located in line with preferred pressure boundary.



Seal around the edges of the blocking material to align the pressure boundary.



Air sealing each and every open joist cavity below the knee wall prevents air movement between the unconditioned attic and the conditioned floor.



Checklist Seal and insulate knee walls

DESIRED OUTCOME

Knee walls framed to prevent thermal bypass and sealed to prevent air leakage between conditioned and unconditioned space.¹

Air Sealing (check prior to insulation):

surface and framing are air sealed.

(cneck prior to insulation):		Install fabric or rigid backing material to enclose
	Existing insulation was removed or	knee wall cavity in a durable, permanent way.
	adjusted to allow access to top and/or bottom of knee wall.	Install insulation to manufacturer's specifications/proper density.
	Rigid blocking or other durable material installed:	Insulation has no gaps, voids, compression,
	Beneath the knee wall (floor running under knee wall) and	or misalignment.
		Seal holes in backing material as needed.
	Above the knee wall (ceiling cavity/ventilation chute/top plate).	Applicable sections of house-wide insulation certificate are filled out with coverage area,
	Installed blocking will stop air flow and support	thickness, and R-value.
	insulation.	Clean work area.
	All joints, cracks, and penetrations including connection between interior	

Insulation:

1. Relevant Standards: 3.0101.1

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