

Air Barrier and Sealing Checklist

EPS New Construction | Form 620_{AB}



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Introduction

Qualifying homes must meet all minimum program requirements, as described in the EPS Field Guide. For builders pursuing ENERGY STAR® Home certification, compliance with the Rater Field Checklist, may be used in lieu of this **Form 620AB**.

Return Completed Form to:
Energy Trust of Oregon
EPS New Construction
 4105 SE International Way
 Milwaukie, OR 97222
 eps@energytrust.org

Site Information

Project Address:

Builder Company Name:

Verifier Name:

Verification Date:

Air Barrier Checklist

- Any durable and rigid material that blocks air flow between conditioned space and unconditioned space; including necessary sealing to block air flow around edges and seams and adequate support to resist pressure changes without damage/displacement.
- Spray foams may qualify as air barriers if installed to manufacturer specified thickness.
- Building wraps, kraft paper, FSK, paper products and other easily torn material do not qualify as air barriers.

An Energy Trust New Homes verifier shall inspect air barriers at locations indicated in this checklist for compliance with program specifications:

Ceilings - Air barriers are required at the following locations:

1.1 <input type="checkbox"/>	Interior/Conditioned surfaces of ceiling insulation; regardless of slope or attic style
1.2 <input type="checkbox"/>	Vertical edges of ceiling insulation; including insulation dams and/or wind baffles that extend to full height of insulation to prevent wind washing
1.3 <input type="checkbox"/>	Dropped ceilings/soffits below unconditioned attics and all other ceilings

Walls - All insulated vertical surface are considered walls and must meet wall air barrier requirements. Air barriers are required at the following locations:

2.1 <input type="checkbox"/>	Interior and exterior surfaces of wall insulation At adiabatic/common walls, exterior air barriers shall be installed around exterior perimeter of the gap/drywall shaft between units; interior air barriers are required on each side of common wall assembly.
2.2 <input type="checkbox"/>	Interior and exterior surfaces of wall insulation behind the following: <input type="checkbox"/> Shower/tub assemblies <input type="checkbox"/> Staircases <input type="checkbox"/> Fireplaces
2.3 <input type="checkbox"/>	Attic and interior surfaces of attic kneewalls and skylight shaft walls Exterior air barrier not required on kneewalls less than 24" tall if an interior air barrier is in place and insulation extends in all direction from the interior air barrier to match the ceiling insulation value.
2.4 <input type="checkbox"/>	Walls adjoining garages and porch roofs
2.5 <input type="checkbox"/>	Double-walls and all other exterior walls

Floors - Floor insulation must be in full contact with floor above and properly supported; use staves, synthetic twine, strapping, etc. for batt insulation and netting for blown-in insulation. Air barriers are required at the following locations:

3.1 <input type="checkbox"/>	Interior/Conditioned surfaces of floors over unconditioned spaces including:
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Air Sealing Checklist	
<ul style="list-style-type: none"> Air sealing materials may include caulks, foams, some construction adhesives, gaskets or equivalent materials used to prevent air movement. 	
An Energy Trust New Homes Verifier shall inspect air sealing at locations indicated in this checklist for compliance with program specifications:	
4.1 <input type="checkbox"/>	Sealing and blocking/flushing at penetrations to unconditioned space; including around ducts, flues, shafts, plumbing, piping, wiring, exhaust fans, and other penetrations
4.2 <input type="checkbox"/>	Recessed lighting fixtures adjacent to unconditioned spaces are Insulation Contact Air Tight, ICAT, labeled and gasketed If installed in an insulated ceiling without attic above, fixtures must be insulated to R-10 or higher
4.3 <input type="checkbox"/>	Above grade sill plates adjacent to conditioned space sealed to foundation or sub-floor; gasket used if sill plate is on concrete/masonry
4.4 <input type="checkbox"/>	Sealing at continuous top plate or blocking at walls adjoining unconditioned spaces
4.5 <input type="checkbox"/>	Drywall sealed to top plate at all unconditioned attic/wall interfaces using caulk, foam, drywall adhesive, or equivalent. Either apply sealant directly between drywall and top plate or to seam between the two from the attic above.
4.6 <input type="checkbox"/>	Rough openings around windows and exterior doors sealed
4.7 <input type="checkbox"/>	Walls that separate attached garages from occupied space are sealed
4.8 <input type="checkbox"/>	Air sealing at rim/band joists
4.9 <input type="checkbox"/>	At adiabatic/common walls, the exterior perimeter of the gap/drywall shaft between units shall be sealed; penetrations and gaps/cracks on interior air barrier shall be sealed on each side of the common wall assembly.
4.10 <input type="checkbox"/>	Doors to unconditioned space or ambient conditions made substantially air tight with weather-stripping or equivalent gasket
4.11 <input type="checkbox"/>	Attic access panels, drop-down stairs and whole-house fans equipped with durable R-10 or higher cover that is gasketed, not caulked. Fan covers either installed on house side or mechanically operated. Durable covers include pre-fabricated covers with integrated insulation, rigid foam adhered to cover with adhesive or batt insulation mechanically fastened to the cover.
	<input type="checkbox"/> Garage <input type="checkbox"/> Crawlspace <input type="checkbox"/> Unconditioned Basement <input type="checkbox"/> Cantilever floor over exterior or other unconditioned area
3.2 <input type="checkbox"/>	Exterior/Horizontal surfaces of under floor insulation over garages or exterior cantilevers
3.3 <input type="checkbox"/>	Exterior vertical surfaces such as rim/band joists or porch intersections