



AIR BARRIER AND INSULATION INSPECTION

Must be inspected before drywall is installed



Home Address: _____		Builder: _____		
COMPONENT	CRITERIA	Corrections Needed	Builder Verified	Co-op Verified
Air barrier and thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier. Breaks or joints in the air barrier are filled or repaired. Air-permeable insulation is not used as a sealing material. Air-permeable insulation is inside of an air barrier.			
Ceiling /Attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed. Attic access and door, knee walls, skylight shaft and drop down stair are sealed and insulated. (except unvented and conditioned attic) For air permeable insulation in vented attics, baffles are installed adjacent to soffit and eave vents to prevent wind wash of insulation.			
Walls	Corners and headers are insulated. Junction of foundation and sill plate is sealed.			
Windows and Doors	Space between window/door jambs and framing is sealed with caulk or foam. Glass U-Factor ≤ 0.5 _____ SHGC ≤ 0.3 _____ Total glass $\leq 20\%$ _____ ft ²			
Rim Joists	Rim joists are insulated and include an air barrier.			
Floors (including above-garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking. Air barrier is installed at any exposed edge of insulation.			
Crawlspace walls	Insulation is permanently attached to walls. Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joints taped.			
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.			
Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.			
Garage separation	Air sealing is provided between the garage and conditioned spaces.			
Recessed lighting	Recessed light fixtures are air tight, IC rated, and sealed to drywall.			
Plumbing and wiring	Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.			
Shower/tub on exterior wall	Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.			
Electrical/phone box on exterior walls	Air barrier extends behind boxes or air sealed-type boxes are installed.			
Common wall	Air barrier is installed in common wall between dwelling units.			
HVAC	Are all ducts within the thermal envelope? Yes No (Duct test required!) HVAC register boots that penetrate building envelope are sealed to subfloor or drywall. Branch take-outs have hand damper for balancing. Flex is installed & supported properly.			
Fireplace	Fireplace walls include an air barrier. Ducted to supply outside combustion air? Y N			
R-values	Flat ceiling: ≥ 38 Roof/ceiling combo: ≥ 30 Ext. walls: ≥ 13 Knee walls: ≥ 13 Floors: ≥ 19 Ducts: 6 / 8			
Builder / Verifier: _____		Cooperative Representative: _____		
Inspection Date: _____		Inspection Date: _____		



BUILDING TIGHTNESS TEST (optional)

If air barrier and insulation inspection was not performed at rough-in, blower door testing is required.



Home Address _____ Builder _____

Building Test Protocol: Set house in winter time conditions with all exterior doors, windows, fireplace flue closed. Open all interior doors. All HVAC systems and exhaust fans should be turned off and left uncovered. Set pressure to -50 Pa.

Total Duct Leakage Rough-in Test: All register/return boots must be taped or otherwise sealed during testing. Total duct leakage with air handler installed must be less than or equal to 6 CFM per 100 ft² of conditioned floor area when tested at a pressure of 25 Pa.

Blower Door Flow _____ CFM₅₀ Volume = area _____ ft² x avg. ceiling ht _____ ft = _____ ft³

ACH₅₀ = CFM₅₀ x 60 / volume = _____ ACH₅₀ (must be less than 7 to qualify)

BAS_{natural} = 0.35 x volume / 60 = _____ CFM_{natural} BAS_{CFM50} = _____ CFM_{natural} x N = _____ CFM₅₀

N Factors: 1 story=22 1.5 stories=19.5 2 stories=17.8 3 stories= 15.8 (HERS Score _____ optional)

Total Duct Leakage _____ CFM₂₅ / area _____ ft² = _____ % (must be 6% or less to qualify)

Test conducted by: _____ Phone: _____

MECHANICAL INSPECTION

To be completed by cooperative representative

Water Heater

of Tanks _____ Size _____ gallons Pipes insulated Y N

Heat pump or heat recovery Y N

Circulation pump Y N

H₂O Select: off-peak switches installed Y N

Make/Model _____

Ducts

In conditioned space? Y N

Sealed properly? Y N Duct Test =< 6% Y N

Insulation R-6 or >? Y N Balancing dampers? Y N
(R-8 outside)

Heat Pump Systems

Systems _____

Type: Air source / Geothermal / Dual fuel

Model #s (list all equipment)

Outdoor units air spacing Y N

Programmable thermostats Y N

Outdoor temperature sensor Y N

Ventilation system installed Y N

Dehumidifier installed Y N

Filter type: disposable / pleated / other

Lighting

IC-rated Y N

50% or > High Efficacy Y N

Appliances

of refrigerators freezers _____

Energy Star Y N

Dryer E / G

Stove top E / G

Fireplace

Vented Y N

Outside air duct Y N

Gas logs Y N

Soil Cover / Slab Y N

Pool pump Y N Timer Y N

Other pumps Y N

Co-op Representative _____ Inspection Date _____ Approved / Rejected