2009 IECC Air Sealing Checklist **Builder:** **Job:**

COMPONENT	REQUIREMENTS	Needs Fixed	OK	N/A
Framing **Air-Barriers** **Air-Sealing**	**A1)** All exterior wall cavities have an air-barrier (House-wrap, foam board, OSB, etc) on all six sides, including knee walls (walls facing attic space). Knee walls have top-plates installed.			
	A2) Showers/tubs on exterior walls have insulation behind them and an interior air barrier between the tub/shower and wall studs (drywall, foam board, house-wrap).			
	A3) Corners and headers are built so that they can be filled with insulation. (Ex: 3-stud corners, "ladder-T's", "California corners") Seal framing in corners top to bottom.			
	A4) Caulk/foam or otherwise seal sill plate to sub-floor, as well as top-plates together.			
	A5) Air barrier installed in dropped ceiling/soffit to prevent air leakage from the attic into wall cavities. Block and seal the soffit at the ceiling level or in each connected wall cavity.			
	A6) Duct shafts, chases, and flue shaft openings to unconditioned space are blocked with solid material at the top-plates and sealed to framing with foam or caulk.			
	A7) Window & door jambs are sealed to framing with minimal expansion foam or caulk.			
	A8) Air sealing is provided between the garage and conditioned spaces by placing solid blocking in the garage rim and sealing it to the surrounding framing with foam or caulk.			
	A9) All electrical, plumbing, and HVAC penetrations to outdoors are sealed with caulk or foam.			
	A10) Air barrier installed in common wall between dwelling units & top-plates air-sealed together.			
Insulation Quality	**B1)** Exterior walls are filled with insulation, with no air pockets or empty spaces between building exterior air barrier and interior drywall.			
	B2) Batt insulation is split around wires and pipes, or sprayed/blown insulation fills exterior wall cavities completely.			
	B3) Rim joists are insulated and include an air-barrier facing outdoors. Attic-facing rim joists and rim joists for cantilevers must be blocked with solid material and sealed to the surrounding framing.			
	B4) Batt insulation in floors is installed to maintain permanent contact with underside of subfloor with wire-ties or other method, OR cavities are completely filled with blown-in insulation. Air barrier is installed at any outside edges of insulation facing attic space or outdoors.			
	B5) Foundation walls and slabs are insulated from top-down to 2 ft below grade and is permanently attached to foundation walls.			
	B6) Batts in narrow cavities are cut to fit, or narrow cavities are filled with blown insulation or foam.			
	B7) Attic access, knee wall door, or drop-down stair is sealed with weather stripping, is insulated to the same R-value as surrounding area, and can be fastened shut.			
	B8) Crawlspaces have 6 mil thick vapor barrier installed over entire ground, seams sealed together, as well as to foundation walls and support pillars.			
Recessed Lighting	**C1)** Recessed lights are IC-rated and air-tight (ICAT labeled) and sealed to drywall, except lights inside conditioned space.			
Ventilation	**D1)** Bath & dryer exhaust fans are vented directly to outdoors & include backdraft damper. Exhaust ducts are as straight as possible, with no 180˚ turns, and are secured to fan housing with metal tape and/or a fastener.			
	D2) Mechanical ventilation for fresh air is installed so that intake pipes are at least 5 ft away from sources of pollution.			
Fireplaces	**E1)** Fireplace exterior walls are insulated and include an air barrier (house wrap, drywall, Thermax, plywood), sealed to framing. Tape or seal any seams in air barrier.			
	E2) Fireplace chase is blocked and sealed at the ceiling level to prevent air leakage. Flue pipe is sealed to metal collar and collar sealed to OSB with fire-rated caulk.			
Duct Sealing	**F1)** Boots that penetrate the building envelope are sealed to subfloor and/or drywall to prevent leakage.			
	F2) The plenum, filter box, trunk lines, duct collars and other joints are sealed with mastic, silicone, or UL-rated metal tape.			
	F3) Panned returns are sealed to surrounding framing with silicone or duct mastic. End plates are installed at both ends of the pans and sealed to the framing with silicone or duct mastic.			

Rating Company: Building Performance **Rater Signature:**_____ **Inspection Date:** _____