

Wisdom & Associates, Inc.

PO Box 3413
Kenai, Alaska 99611
907-283-0629

7984 Kenai Spur Highway
Kenai, Alaska 99611

Energy Code Requirements

The state of Alaska has adopted the International Energy Conservation Code with amendments. This is a list of common issues that we encounter during code inspections. This is not a full list of all requirements in the building code, contact us if you have questions.

IECC 402.2.11 – Unvented Crawlspace

- Crawlspace with insulation on the exterior crawlspace walls cannot be vented to the outdoors.
- Joints of the vapor retarder shall overlap by 6 inches and be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches up stem walls and shall be attached to the stem walls.

IECC 403.6.6 - Ducts Buried in Ceiling Insulation

- Supply and return ducts must be insulated to R-8
- Minimum of R-19 ceiling insulation against all sides of the duct, excluding the R-8 duct wrap

IECC 402.1.1 – Vapor Retarder Exterior Walls

- Vapor retarder required on warm side of all exterior walls, including rim joist

IECC 402.4 – Blower Door Test

- Maximum 4 Air Changes per Hour at final blower door test

IECC 402.4 – Fireplaces & Wood Stoves

- Outdoor combustion air required for all solid fuel burning appliances

IECC 403.1.1 – Thermostats

- Programmable thermostats required for all primary heating systems, except for radiant systems with thermal mass

IECC 403.3.2 – Duct Sealing

- All duct joints and seams must be sealed

IECC 403.7 – Heating System Sizing

- Heating system output maximum 125% of AkWarm or Manual J design heat loss, or next smallest available system in the product line

ASHRAE 62.2 Table 4.1 – Continuous Minimum Ventilation Requirements

- CFM requirement based on square footage of habitable space (no garages) and bedrooms

Floor Area (ft ²)	Bedrooms				
	1	2	3	4	5
<500	35	45	55	65	75
501-1000	50	60	70	80	90
1001-1500	65	75	85	95	105
1501-2000	80	90	100	110	120
2001-2500	95	105	115	125	135
2501-3000	110	120	130	140	150
3001-3500	125	135	145	155	165
3501-4000	140	150	160	170	180
4001-4500	155	165	175	185	195
4501-5000	170	180	190	200	210

ASHRAE 62.2 Table 5.1 - Intermittent (bathroom and kitchen) Ventilation Requirements

- Kitchens – 100 CFM tested (over 400 CFM requires makeup air)
- Bathrooms – 50 CFM tested

ASHRAE 62.2 Table 5.2 – Continuous (bathroom and kitchen) Ventilation Requirements

- Kitchens – 50 CFM tested or 5 ACH
- Bathrooms – 20 CFM tested

ASHRAE 62.2 6.8 – Air Inlets

- Air inlets shall be located a minimum of 10 ft from known sources of contamination such as a stack, vent, exhaust hood, or vehicle exhaust.
- May be 3 feet stretch string distance from roof terminations or clothes dryer exhausts
- No minimum from kitchen and bathroom outlets
- The intake shall be placed so that entering air is not obstructed by snow, plantings, or other material.

Sincerely
Robert Moss
Wisdom and Associates, Inc.
Cell: 907-398-4372