



## Town of Fairplay Building Department Energy Code Information

Prescriptive R-values and U-factors for Fairplay are listed in the table below.

These values are prescriptive, meaning all values are minimums for the corresponding assembly, but reductions may be available with other methods.

Reductions are permitted in most of the assemblies with a tradeoff of a more energy efficient assembly per IRC N1102.1.5. Any project attempting to use the tradeoff method (total UA alternative) must provide a completed REScheck (<https://www.energycodes.gov/rescheck>).

Fairplay Prescriptive Values

	Windows and Doors	Skylight	Ceiling/roof assembly	Wood Framed Wall	Mass Wall	Floor	Basement Wall	Unheated Slab Edge	Heated Slab	Crawl space Walls
R-Values	N/A	N/A	49	20 + <b>5CI</b> Or 13 + <b>10CI</b>	19/21	38	15/19	10 for 4ft depth	5	15/19
U-Factors	.30	.55	.026	.045	.057	.028	.050	N/A	N/A	.055

Notes:

**CI means continuous insulation outside of the plane of the framing materials**

Slab edge insulation is required when the slab is less than 12 inches below grade or above grade.

15/19 means R-15 continuous or 19 cavity insulation.

R-30 over 100% of a ceiling area shall be permitted when the full height insulation can be provided and documented on the drawings.

Heated slab insulation shall be continuous under the entire slab, when heated slab insulation is used, slab edge insulation is not required to extend below the slab, but the edge of the slab is required to be protected with R-10.

R-values can be converted to U-factors by inverting the R-value. However, U-factors cannot be converted to R-values, since R-values correspond to material characteristics, and U-factor corresponds to assembly performance.

### Whole house ventilation

Whole house ventilation is required on all new homes in Town of Fairplay.

R303.4, N1102.4.1.2 and M1505.4

Whole house ventilation shall provide an exchange of air in the dwelling unit. HRV (Heat Recovery Ventilation) Units are an effective way to achieve the requirements.

Definition:

**WHOLE HOUSE MECHANICAL VENTILATION SYSTEM.** An exhaust system, supply system, or combination thereof that is designed to mechanically exchange indoor air with outdoor air when operating continuously or through a programmed intermittent schedule to satisfy the whole house ventilation rates.

#### **Manual S and J requirements**

Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.

Calculations are required for all mechanical systems, including direct like for like replacements.