FIRST REVIEW DRAFT

APPENDIX RB

ZERO ENERGY RESIDENTIAL BUILDING PROVISIONS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

User note:

The purpose of this appendix is to provide a net zero energy code as a jurisdictional prerogative. It facilitates the use of the ERI provisions of the IECC to achieve zero net energy without directly altering IECC provisions except where provided. Sound building science principles that affect moisture flow, heat flow, ultraviolet radiation, and ozone that are relevant to high performance houses should be considered in addition to adopting this appendix. This appendix only addresses the energy performance through the ERI rating of low-rise residential buildings.

RB101
GENERAL

RB101.1 General These provisions shall be applicable for new *residential* buildings where zero energy provisions are required.

RB102
COMPLIANCE

(Note: language to replace R401.2 Compliance)

RB102.1 Compliance New *residential buildings* shall comply with the energy rating index (ERI) approach in Section RB103.1

RB103
ZERO ENERGY RESIDENTIAL BUILDINGS

(Note: language to replace R406.4 ERI-based Compliance)

RB103.1 Energy Rating Index Zero Energy Score. Compliance with this section requires that the *rated design* be shown to have a score less than or equal to the values in Table RB103.1 when compared to the *ERI reference design* for each of the following:

1. ERI value not including onsite renewable energy generation, and
2. ERI value including onsite renewable energy generation

TABLE RB103.1
MAXIMUM ENERGY RATING INDEX [a]

CLIMATE ZONE	ENERGY RATING INDEX not including onsite renewable energy generation	ENERGY RATING INDEX including onsite renewable energy generation (as proposed)
1	42	0
2	43	0
3	48	0
4	45	0
5	46	0
6	44	0
7	44	0
8	42	0

[a] The building shall meet the mandatory requirements of Section R406.2, and the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table R402.1.2 or Table R402.1.4 or 402.1.5. of the 2015 *International Energy Conservation Code*.