

EC68–09/10

402.2.11, 402.3.5; IRC N1102.2.11, N1102.3.5

Proponent: Bill Prindle, ICF International, representing the Energy Efficient Codes Coalition; Jeff Harris, Alliance to Save Energy; Harry Misuriello, American Council for an Energy-Efficient Economy (ACEEE); Garrett Stone, Brickfield, Burchette, Ritts & Stone; Steve Rosenstock, Edison Electric Institute; Brian Dean, ICF International

THIS IS A 2 PART CODE CHANGE. PART I WILL BE HEARD BY THE IECC COMMITTEE. PART II WILL BE HEARD BY THE IRC BUILDING/ENERGY COMMITTEE. SEE THE TENTATIVE HEARING ORDERS FOR THESE COMMITTEES.

PART I – IECC

Revise as follows:

402.2.11 Thermally isolated sunroom insulation. All sunrooms shall meet the insulation requirements of this code.

Exception: For sunrooms with thermal isolation, the following exceptions to the insulation requirements of this code shall apply: (1) The minimum ceiling insulation R-values shall be R-~~19~~24 in Zones 1 through 4 and R-~~24~~30 in Zones 5 through 8; and (2) The minimum wall R-value shall be R-13 in all zones. New wall(s) separating a sunroom with thermal isolation from conditioned space shall meet the *building thermal envelope* requirements of this code.

402.3.5 Thermally isolated sunroom U-factor. All sunrooms shall meet the fenestration requirements of this code.

Exception: For sunrooms with thermal isolation in Zones 4 through 8, the following exceptions to the fenestration requirements of this code shall apply: (1) the maximum fenestration U-factor shall be ~~0.50~~ 0.45; and (2) the maximum skylight U-factor shall be ~~0.70~~0.5. New ~~windows and doors~~ fenestration separating the sunroom with thermal isolation from conditioned space shall meet the *building thermal envelope* requirements of this code.

PART II – IRC BUILDING/ENERGY

Revise as follows:

N1102.2.11 Thermally isolated sunroom insulation. All sunrooms shall meet the insulation requirements of this code.

Exception: For sunrooms with thermal isolation, the following exceptions to the insulation requirements of this code shall apply: (1) The minimum ceiling insulation R-values shall be R-~~19~~24 in Zones 1 through 4 and R-~~24~~30 in Zones 5 through 8; and (2) The minimum wall R-value shall be R-13 in all zones. New wall(s) separating a sunroom with thermal isolation from conditioned space shall meet the *building thermal envelope* requirements of this code.

N1102.3.5 Thermally isolated sunroom U-factor. All sunrooms shall meet the fenestration requirements of this code.

Exception: For sunrooms with thermal isolation in Zones 4 through 8, the following exceptions to the fenestration requirements of this code shall apply: (1) the maximum fenestration U-factor shall be ~~0.50~~ 0.45; and (2) the maximum skylight U-factor shall be ~~0.70~~0.5. New ~~windows and doors~~ fenestration separating the sunroom with thermal isolation from conditioned space shall meet the *building thermal envelope* requirements of this code.

Reason: This proposal editorially clarifies that the requirements for thermally isolated sunrooms in these sections are exceptions and only apply to sunrooms that have *thermal isolation* and that all other sunrooms must comply with all of the requirements of the code. The proposal also tightens the requirements in the exceptions. It is reasonable to require some improvement in sunrooms with *thermal isolation*, particularly given the amount of glass and the relatively minimal current requirements.

Cost Impact: The code change proposal will increase the cost of construction.

PART I – IECC

Public Hearing:	Committee:	AS	AM	D
	Assembly:	ASF	AMF	DF

PART II – IRC BUILDING/ENERGY

Public Hearing:	Committee:	AS	AM	D
	Assembly:	ASF	AMF	DF

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