

RECD1-11-22

IECC: R402.2.8

Proponents: Emma Gonzalez-Laders, representing IECC RE Envelope subcommittee

2024 International Energy Conservation Code [RE Project]

Revise as follows:

R402.2.8 Floors. Floor insulation shall ~~comply with one~~ be installed in accordance with all of the following:

1. Table R402.1.2 or Table R402.1.3 and manufacturer's instructions.
2. Floor framing members that are part of the *building thermal envelope* shall be air sealed to maintain a *continuous air barrier*.
3. One of the following methods:
 - 3.1. ~~Installation~~ *Cavity insulation* shall be installed to maintain permanent contact with the underside of the subfloor decking ~~in accordance with manufacturer instructions to maintain required *R* value or readily fill the available cavity space.~~
 - 3.2. ~~Floor framing cavity~~ *Cavity insulation* shall be ~~permitted installed to be in~~ maintain contact with the top side of sheathing separating the cavity and the unconditioned space below. Insulation shall extend from the bottom to the top of all perimeter floor framing members ~~and the framing members shall be air sealed.~~
 - 3.3. A combination of *cavity insulation* and *continuous insulation* shall be installed ~~so such~~ such that the *cavity insulation* ~~is in~~ maintains contact with the top side of the *continuous insulation* ~~that is installed on~~ and the *continuous insulation* maintains contact with the underside of the floor framing ~~separating the cavity and the unconditioned space below. The *R* values of the cavity and continuous insulation components or the *R* value of continuous insulation only shall equal the required insulation component *R* values for floors. *Cavity insulation* .~~ Insulation shall extend from the bottom to the top of all perimeter floor framing members ~~and the framing members shall be air sealed.~~
 - 3.4. *Continuous insulation* shall be installed to maintain contact with the underside of the floor framing. Insulation shall extend from the bottom to the top of all perimeter floor framing members.

Reason: This proposal responds to the clarifications requested in REPCD1-18-22. (A separate proposal, RED1-230-22 Modification, addresses the request regarding Table R402.5.1.1.) These editorial changes delineate the four possible scenarios and provide parallel language to clarify the similarities and differences between them.

Cost Impact: The code change proposal will neither increase nor decrease the cost of construction.
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Editorial clarification only; no change in code requirements; no impact on cost.