2021 IECC Roof Repairs / Replacement

C201 Definitions

Reroofing. The process of recovering or replacing an existing roof covering. See "Roof recover" and "Roof replacement".

Roof Assembly. A system designed to provide weather protection and resistance to design loads. The systems consist of a roof covering, roof deck or a single component serving as both the roof covering and the roof decking. A roof assembly includes the roof covering, underlayment, roof deck, insulation, vapor retarder and interior finish.

Roof Recover. The process of installing an additional roof covering over an existing roof covering without removing the existing roof covering.

Roof Repair. Reconstruction or renewal of any part of an existing roof covering for the purpose of its maintenance.

Roof replacement. The process of removing the existing roof covering, repairing and damaged substrate and installing a new roof covering.

C402.2.2 Roof assembly. The minimum thermal resistance (R-value) of the insulating material installed either between the roof framing or continuously on the roof assembly shall be as specified in Table C402.1.3 based on construction materials used in the roof assembly. Skylight curbs shall be insulated to the level of roofs with insulation entirely above the deck or R-5, whichever is less.

Exceptions:

1. Continuously insulated roof assemblies where the thickness of insulation varies 1 inch or less and where the weighted U-value is equivalent to the same assembly with the R-value specified in Table C402.1.3
2. Where tapered insulation is used with insulation entirely above deck, the R-value where the insulation thickness varies 1 inch or less from the minimum thickness of tapered insulation shall comply with the R-value specified in Table C402.1.3.
3. Unit skylight curbs included as a component of a skylight listed and labeled in accordance with NFRC 100 shall not be required to be insulated

Insulation installed on a suspended ceiling with removable ceiling tiles shall not be considered part of the minimum thermal resistance of the roof Insulation.

C503 Existing Building - Alterations

C503.3.1 Roof replacement. Roof replacement shall comply with Table C402.1.2 or C402.1.4 where the existing roof assembly is part of the building thermal envelope and contains insulation entirely above the roof deck

C504 Existing Building Repairs

C504.2 Application. For the purpose of this code, the following shall be considered repairs;

1. Glass-only replacements in an existing sash and frame
2. Roof repairs
3. Air barrier shall not be repaired for roof repairs where the repairs to the building do not include alterations, renovations or repairs to the remainder of the building envelope
4. ….