

## INTERNATIONAL COMMERCIAL ENERGY CODE 2021 EDITION

ADDRESSS OF BUILDING: \_\_\_\_\_

ROOFING CONTRACTOR: \_\_\_\_\_

BASED ON THE DEFINITIONS IDENTIFIED BELOW, I CONFIRM THAT THIS SPECIFIC PROJECT IS DEFINED AS:

CHOOSE ONE:

- ROOF RECOVER
- ROOF REPAIR
- ROOF REPLACEMENT

**IF AT LEAST 1 SHEET OF ROOF SHEATHING IS REMOVED:**

I CONFIRM THAT UPON COMPLETION, THERE WILL BE A MINIMUM R-49 OF INSULATION INSTALLED IN THE ATTIC OR R-30 ON INSULATION ENTIRELY ABOVE THE ROOF DECK.

SIGN: \_\_\_\_\_ DATE: \_\_\_\_\_

**DEFINITIONS AND COMMENTARY:**

**ROOF RECOVER – 2<sup>nd</sup> LAYER**

The process of installing an additional roof covering over an existing roof covering without removing the existing roof covering. The total maximum roof layers are two. Compliance is not required.

**COMMENTARY**

This term refers to the process of adding a new roof covering on top of the existing roof system without removing the existing roofing system. See definitions of “Roof replacement” and “Roof recover.”

**ROOF REPAIR**

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

**COMMENTARY**

Roof repair is distinguished from roof recovering and roof replacement. It is limited to actions aimed at maintaining an existing roof and restoring portions that have been damaged. Roof repairs are typically exempt from permit. See definitions of “Roof recover” and “Roof replacement.” See Chapter 5 {CE} for requirements for roof repairs.

**ROOF REPLACEMENT**

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

**COMMENTARY**

This term refers to the process of removing an existing roof covering and replacing it with a new covering. This is distinguished from roof recovering, where the new cover is added on top of the existing roof cover. See definitions of “Roof recover” and “Roof repair.” See Chapter 5 {CE} for requirements for roof repairs.

*See code section C503.1 exception #8 below for any roof slope that is 2:12 or less.*

## **CODE SECTION C503.1:**

**Alterations to any building or structure** shall comply with the requirements of Section C503. Alterations shall be such that the existing building or structure is not less conforming to the provisions of this code than the existing building or structure was prior to the alteration. Alterations to an existing building, building system or portion thereof shall conform to the provisions of this code as those provisions relate to new construction without requiring the unaltered portions of the existing building or building system to comply with this code. Alterations shall not create an unsafe or hazardous condition or overload existing building systems.

**Exceptions:** The following alterations need not comply with the requirements for new construction, provided the energy use of the building is not increased:

1. **Storm windows** installed over existing fenestration.
2. **Surface-applied window film** installed on existing single-pane fenestration assemblies reducing solar heat gain, provided the code does not require the glazing or fenestration to be replaced.
3. **Existing ceiling, wall or floor cavities exposed during construction, provided that these cavities are filled with insulation.**
4. **Construction where the existing roof, wall or floor cavity is not exposed.**
5. **Roof recover.**
6. **Air barriers** shall not be required for roof recover and roof replacement where the alterations or renovations to the building do not include alterations, renovations or repairs to the remainder of the building envelope.

**\*Illinois energy conservation code (Amendments to the International Energy Conservation Code 2021 Edition):**

**C503.2.1 Roof Replacement.** Roof replacement shall comply with Section C402.1.2, C402.1.4, C40201.5 or C407 where the existing roof assembly is part of the building thermal envelope and contains insulation entirely above the roof deck. In no case shall the R-value of the roof insulation be reduced, or the U-factor of the roof assembly be increased as part of the roof replacement.

**Exceptions:** Where compliance with Section C402.1 cannot be met due to limiting conditions on an existing roof, an approved design shall be submitted with the following:

1. Construction documents that include a report by a registered design professional or an approved source documenting details of the limiting conditions affecting compliance with the insulation requirements.
2. Construction documents that include a roof design by a registered design professional or an approved source that minimizes deviation from the insulation requirements.