

International Building Code 2006

Chapter 15 Roof Assemblies and Rooftop Structures

Section 1502—Definitions

Roof Assembly: A **system** designed to provide weather protection and resistance to design loads. The system consists of a roof covering and roof deck or a single component serving as both the roof covering and the roof deck. **A roof assembly includes the roof deck, vapor retarder, substrate or thermal barrier, insulation, vapor retarder, and roof covering.**

Section 1504—Performance Requirements

1504.1 Wind Resistance of Roofs. **Roof Decks and Roof Coverings** Shall Be Designed For Wind Loads In Accordance With Chapter 16 And Sections 1504.2, 1504.3 And 1504.4

1504.2 Wind Resistance of Clay and Concrete Tiles. Clay and concrete tile roof coverings shall be connected to the roof deck in accordance with Chapter 16.

1504.3 Wind Resistance of Non-ballasted Roofs. Roof coverings installed on roofs...that are mechanically attached or adhered to the roof deck shall be designed to resist the design wind load pressures for cladding in Chapter 16.

1504.3.1 Other Roof Systems. Roof systems with built-up, modified bitumen, fully adhered or mechanically attached single-ply through fastened metal panel roof systems, and other types of membrane roof coverings **shall also be tested** in accordance with FM4450, FM4470, UL580, or UL1897.

1504.3.2 Metal Panel Roof Systems. Metal panel roof systems through fastened of standing seam **shall be tested** in accordance with UL580 or ASTM E1592.

1504.4 Ballasted Low-slope Roof Systems. Ballasted low-slope single-ply roof system coverings installed in accordance with Section 1507 shall be designed in accordance with Section 1504.8 and ANSI/SPRI RP-4.

Chapter 16 Structural Design

Section 1609.5.1 Roof deck. The roof deck shall be designed to withstand the wind pressures determined in accordance with ASCE 7.

Section 1609.5.2 Roof coverings. Roof coverings shall comply with Section 1609.5.1.