

2003 ICC Energy code, effective date _____ July 27, 2005 _____

ICC ANSI A117.1 Accessibility Code, effective date _____ July 27, 2005 _____

2005 NEC Electrical code, effective date _____ July 27, 2005 _____

1503.4 Roof drainage. Design and installation of roof drainage systems shall comply with the Kentucky Plumbing Code and the requirements of this section. The private and secondary roof drainage systems shall comply with the requirements of Sections 1503.4.2 through 1503.4.3.

1503.4.2 Roof drains. Primary and secondary roof drains shall comply with the requirements of this section.

1503.4.2.1 Strainers. Roof drains shall have strainers extending not less than 4 inches (102 mm) above the surface of the roof immediately adjacent to the roof drain. Strainers shall have an available inlet area, above roof level, of not less than one and one-half times the area of the conductor or leader to which the drain is connected.

1503.4.2 Flat decks. Roof drain strainers for use on sun decks, parking decks and similar areas that are normally serviced and maintained shall comply with Section 1503.4.1 or shall be of the flat-surface type, installed level with the deck, with an available inlet area not less than two times the area of the conductor or leader to which the drain is connected.

1503.4.2.3 Drain flashings. The connection between roofs and roof drains which pass through the roof and into the interior of the building shall be made water tight by the use of approved flashing material.

1504.4.3 Secondary (emergency) roof drains. Secondary roof drains shall comply with the requirements of this section in addition to the requirements of Section 1503.4.1 and 1503.4.2.

1503.4.3.1 Secondary (emergency) roof drains. Secondary (emergency) roof drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason.

1503.4.3.2 Separate systems required. Secondary roof drain systems shall have piping and point of discharge separate from the primary system. Discharge shall be above grade in a location which would normally be observed by the building occupants or maintenance personnel.

1503.4.3.3 Sizing of secondary drains. Secondary (emergency) roof drain systems shall be sized in accordance with the Kentucky Plumbing Code based on the rainfall rate for which the primary system is designed. The secondary drain system shall be equal in size to the primary drain system. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1611.1. Scuppers shall not have an opening dimension of less than 4 inches (102mm). The flow through the primary system shall not be considered when sizing the secondary drain system.

