



**3105
SECTION 3105
AWNINGS AND CANOPIES**

3105.1 Fabric awnings and fabric-covered frames.

Fabric awnings and fabric-covered frames shall comply with the provisions of Section 3105 as applicable.

3105.1.1 Location.

3105.1.1.1

Fabric awnings and fabric-covered frames located over public property or in areas accessible to the general public shall be constructed so that no rigid part of such fabric awnings or fabric-covered frames shall be less than 7 feet, 6 inches (2286 mm) from the grade directly below, and no part of the cloth drop shall be less than 7 feet (2134 mm).

3105.1.1.2

A fixed fabric awning or fabric-covered frame shall not extend over public property more than two-thirds the distance from the property line to the nearest curb line in front of the building site as measured from the exterior face of the building nor shall any portion be closer than 18 inches (457 mm) to the curb line.

Exceptions:

1. If installed over 14 feet (4267 mm) in height, it may occupy the entire width of the sidewalk.
2. Unless otherwise regulated by local zoning requirements.

3105.1.1.3

Fabric-covered framework in whole or in part of fabric, erected in connection with gasoline service stations may not be erected within 15 feet (4572 mm) of where flammable liquids are transferred.

3105.1.4

Movable fabric awnings or fabric covered frames may extend over public property for a distance of not more than 5 feet (1524 mm), provided such awnings or any part thereof maintain a clear height of 8 feet (2438 mm) above the sidewalk. All such movable awnings shall be supported on metal frames attached to the building.

3105.1.1.5

Every fabric awning or fabric-covered frame shall be located as not to interfere with the operation of any exterior standpipe, stairway, fire escape or any means of egress to and from the building.

3105.2 Area.

No fabric awning or fabric-covered frame shall exceed the area of the building to which it is attached.

3105.3 Material.**3105.3.1**

Fabric used for awnings or fabric-covered frames shall be flame resistant in accordance with NFPA 701.

Exception: Awnings or fabric-covered frames used in conjunction with Group R-3 occupancies.

3105.3.2

Supports for fabric awnings and fabric-covered frame shall be of metal or similar durable material.

3105.4 Design.**3105.4.1**

Design of the framing members shall not be based on removal or repositioning of parts, or the whole, during periods of 75 mph wind velocity.

3105.4.2

Design of the structural framing members shall be based on rational analysis, using the applicable wind loads of Chapter 16 as shown below:

3105.4.2.1

The wind design loads for any fabric or membrane-covered structure designed with a quick removal or breakaway membrane or fabric at wind velocities of 75 mph, shall be based on the following criteria:

1. Minimum wind velocity of 3-second wind gust 90 mph
2. Importance factor based on low hazard to human life of 0.77.
3. Exposure Category B for or C as defined in Chapter 16.

3105.4.2.2

The wind design loads for any fabric or membrane covered structure designed with a permanent or nonremovable fabric or membrane, shall be based on the following criteria:

1. Minimum wind velocity as required in Chapter 16.
2. Importance factor based on low hazard to human life of 0.77.
3. Exposure Category B or C as defined in Chapter 16.

3105.4.2

The fabric portions of awnings fabric covered frames shall be securely laced, tied or otherwise fastened to the frame; no rafter or front bar will be permitted in pockets; and in no case shall a rolling curtain be caused to operate over a canopy frame.

3105.4.3

The horizontal projection of cantilevered portions shall not be greater than two times the height, except where the building construction does not permit a proper installation; in which case, variance may be permitted by the building official, based on special design and construction.

3105.5 Rigid awnings and canopy shutters.**3105.5.1 Loads.**

Rigid awnings and canopy shutters shall be designed to resist the loads set forth in Chapter 16 of this Code except that structures or parts thereof which are intended to be removed or repositioned during periods of high wind velocity shall be designed in their open or extended position to design pressures based on a basic wind speed of minimum 90 mph, 3-second wind gust with applicable shape factors and to resist not less than 10 psf (478 Pa) roof live load.

3105.5.2

Where such structure is intended to be folded or otherwise repositioned to close an opening when the building is unattended or act as a storm shutter the design in the closed position shall also comply with Chapter 16 and shall be impact resistant in accordance with Section 1609.1.4.

3105.5.3

Structures designed to be readily removed or repositioned during periods of high wind velocity shall be posted with a legible and readily visible decal or painted instructions to the owner or tenant to remove or reposition the structure or part thereof during such periods of time as are designated by the U.S. Weather Bureau as being a hurricane warning or alert.