



| v3 - LEED 2008

Environmental Tobacco Smoke (ETS) control

EQp2 | Required

Glossary

Intent

To prevent or minimize exposure of building occupants, indoor surfaces and systems to Environmental Tobacco Smoke (ETS).

Requirements

Choose one of the following options:

Option A

Prohibit smoking in the building and designate exterior smoking areas at least 25 feet from building entries, outdoor air intakes and operable windows.

Option B

Prohibit smoking in the building except in designated smoking rooms and establish negative pressure in the rooms with smoking.

Locate any exterior designated smoking areas at least 25 feet away from building entries, outdoor air intakes and operable windows.

Design indoor designated smoking room(s) to effectively contain, capture and remove ETS from the building. At a minimum, the smoking room must be directly exhausted to the outdoors, away from air intakes and building entry paths, with no recirculation of ETS-containing air to the nonsmoking area of the building; enclosed with impermeable deck-to-deck partitions; and operated at a negative pressure compared with the surrounding spaces of at least an average of 5 Pa (0.02 inches water gauge) and a minimum of 1 Pa (0.004 inches water gauge) when the door(s) to the smoking room are closed.

Verify performance by conducting 15 minutes of measurement, with a minimum of one measurement every 10 seconds, of the differential pressure in the smoking room with respect to each adjacent area and in each adjacent vertical chase with the doors to the smoking room closed. Conduct the testing with each space configured for worst-case conditions for transport of air from the smoking room to adjacent spaces.

Option C

Option C is for residential buildings only.

Reduce air leakage between smoking and nonsmoking areas.

Prohibit smoking in all common areas of the building.

Locate any exterior designated smoking areas at least 25 feet away from building entries, outdoor air intakes and operable windows opening to common areas. Minimize uncontrolled pathways for ETS transfer between individual residential units by sealing penetrations in each unit's walls, ceilings and floors and by sealing adjacent vertical chases. In addition, weather-strip all doors in the residential units leading to common hallways to minimize air leakage. Demonstrate acceptable sealing of residential units in two ways: 1) by a blower door test conducted in accordance with ASTM-779-03, Standard Test Method for Determining Air Leakage Rate by Fan Pressurization, and 2) by use of the sampling methodology defined in Chapter 7 (Home Energy Rating Systems, HERS Required Verification and Diagnostic Testing) of the California Residential Alternative Calculation Method Approval Manual. Residential units must demonstrate less than 1.25 square inches of leakage area per 100 square feet of enclosure area (i.e., the sum of all wall, ceiling and floor areas).