LEED BD+C: Multifamily Midrise | v3 - LEED 2008

Compartmentalization of units in mid-rise buildings

MEQc12 | Possible 1 point

Glossary

Intent

To limit the exposure of building occupants to indoor air pollutants by minimizing the transfer of air between units.

Requirements

Prerequisites (Mandatory Measures)

12.1 **Compartmentalization of units.** Each unit must be compartmentalized, to prevent excessive leakage between units. Meet both of the following:

a. Weather-strip all exterior doors and operable windows in the residential units to minimize leakage from outdoors. Minimize uncontrolled pathways for ETS and other indoor air pollutant transfer between individual residential units by sealing penetrations in walls, ceilings and floors in the residential units and by sealing vertical chases (including utility chases, garbage chutes, mail drops, and elevator shafts) adjacent to the units. Weather-strip all doors in the residential units leading to common hallways to minimize air leakage into the hallway.

b. Demonstrate acceptable sealing of residential units by a blower door test. Follow the procedure described in the ENERGY STAR Testing and Verification Protocols for multifamily high-rise buildings, with an allowable maximum leakage of 0.30 cfm50 per square foot of enclosure (i.e. all surfaces enclosing the apartment, including exterior and party walls, floors, ceiling).

Credits

12.2 **Enhanced compartmentalization of units** (1 Point). Significantly reduce smoke and other indoor air pollutant exposure and transfer (1 point). Meet the requirements of part (a) above and perform a blower door test to ensure that smoke transfer is minimized. Follow the procedure described in the ENERGY STAR Testing and Verification Protocols for multifamily high-rise buildings, with an allowable maximum leakage of 0.225 cfm50 per square foot of enclosure (i.e. all surfaces enclosing the apartment, including exterior and party walls, floors, ceiling).