

2.5-3.3.2 Fuel-Fired Equipment Rooms

Rooms with fuel-fired equipment shall be provided with outdoor air to maintain equipment combustion rates and limit space temperatures.

2.5-3.3.3 Areas of Refuge

Areas of refuge shall be heated or cooled as determined by the geographic location of the facility or setting.

2.5-3.3.4 Commercial Food Preparation Areas

If a facility requires a food preparation area, the following requirements shall apply:

2.5-3.3.4.1 Food preparation areas serving 30 or fewer residents shall be permitted to comply with requirements for kitchens adjacent to open corridors in NFPA 101: *Life Safety Code*®.

2.5-3.3.4.2 Commercial food service kitchens shall have ventilation systems with air supply mechanisms interfaced with exhaust hood controls or relief vents so that exfiltration or infiltration to or from exit corridors does not compromise the following:

- (1) Exit corridor restrictions of NFPA 90A: *Standard for the Installation of Air-Conditioning and Ventilating Systems*
- (2) Pressure requirements of NFPA 96: *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*
- (3) Requirements for food preparation areas open to corridors in NFPA 101
- (4) Ventilation requirements in Part 6 (ANSI/ASHRAE/ASHE Standard 170-2013: *Ventilation of Health Care Facilities*, including addenda)

2.5-3.3.4.3 Exhaust hoods handling grease-laden vapors in commercial food service kitchens shall comply with the following:

- (1) NFPA 96
- (2) NFPA 101

2.5-3.4 Thermal and Acoustic Insulation

2.5-3.4.1 General

See the following documents for requirements in addition to the requirements in this section.

2.5-3.4.1.1 *International Energy Code*

2.5-3.4.1.2 NFPA 255: *Standard Method of Test of Surface Burning Characteristics of Building Materials*

2.5-3.4.1.3 NFPA 101: *Life Safety Code*®

2.5-3.4.2 Thermal Insulation

2.5-3.4.2.1 General

- (1) Insulation shall be provided in the building to conserve energy, protect personnel, and prevent vapor condensation.
- (2) Existing accessible insulation in identified areas of work shall be inspected, repaired, and/or replaced in compliance with current code requirements.

2.5-3.4.2.2 Vapor barrier

- (1) Insulation on cold surfaces shall include an exterior vapor barrier.
- (2) A separate vapor barrier shall not be required for material that will not absorb or transmit moisture.

2.5-3.4.3 Acoustic Insulation

See Section 2.5-8 (Acoustic Design Systems) for requirements.

2.5-3.5 HVAC Air Distribution

2.5-3.5.1 General

See common element and facility chapters in Parts 3 through 5 for additional requirements.

2.5-3.5.2 HVAC Ductwork

2.5-3.5.2.1 General. When smoke barriers are required, heating, ventilation, and air-conditioning zones shall be coordinated with smoke compartments insofar as practical to minimize the need to penetrate fire and smoke barriers.