

from lavatories, showers, bathtubs, clothes washers, and laundry trays shall be collected for reuse onsite.

**A107.10 Condensate drainage recovery.** Projects that are pursuing a condensate drainage recovery project selective shall collect 100 percent of condensate for reuse in applications such as water features, fountains, graywater collection systems and rainwater collection systems.

**A107.11 Wet-hood exhaust scrubber systems.** Where wet-hood exhaust scrubber systems are used, projects that are pursuing this elective shall incorporate a water recirculation system. The makeup water supplies for such systems shall be metered in accordance with Section 705.1.

**A107.11.1 Washdown systems.** Hoods incorporating washdown or rinsing systems for perchloric acid and similar chemicals shall utilize self-closing valves. Such systems shall be designed to drain automatically after each washdown process has been completed.

**A107.11.2 Water sources.** Where suitable alternate onsite nonpotable water is available, makeup water supplies to the recirculation system of wet-hood exhaust scrubbers shall utilize alternate onsite nonpotable water or municipal reclaimed water of a water quality appropriate for the application.

## SECTION A108 INDOOR ENVIRONMENTAL QUALITY AND COMFORT

**A108.1 VOC emissions project electives.** Sections A108.2 through A108.5 shall be considered to be separate project electives. The electives shall be cumulative and compliance with each project elective shall be recognized individually.

**A108.2 Flooring material project elective.** Where projects are intended to qualify for a “flooring material” project elective, all flooring installed within the interior of the building shall comply with Section 806.4 or shall be one or more of the following flooring materials that are deemed to comply with VOC emission limits:

1. Ceramic and concrete tile
2. Clay pavers
3. Concrete

4. Concrete pavers
5. Metal
6. Organic-free, mineral-based

**A108.3 Ceiling and wall materials project elective.** Where projects are intended to qualify for a ceiling and wall materials project elective, all ceiling and wall systems shall comply with Chapter 8 or shall be one or more of the following ceiling or wall systems that are deemed to comply with VOC emission limits:

Ceiling Systems:

1. Ceramic tile.
2. Clay masonry.
3. Concrete.
4. Concrete masonry.
5. Metal.
6. Organic-free, mineral-based.

Wall Systems:

1. Ceramic tile.
2. Clay masonry.
3. Concrete.
4. Concrete masonry.
5. Metal.
6. Organic-free, mineral-based.

**A108.4 [Reserved]**

**A108.5 Architectural paints and coatings project elective.** Where projects are intended to qualify for an architectural paints and coatings project elective, 100 percent of the non-specialty paints and coatings shall have VOC limits that are more than 50 percent lower than the thresholds in Table 806.4(1) and 100 percent of the specialty coatings shall meet the requirements in Table 806.4(1).

**A108.6 Views to building exterior project elective.** Where projects are intended to qualify for a “views to building exterior” project elective in accordance with Section A108.6, not less than 75 percent of the net floor area shall have a direct line of sight to the exterior through clear vision glazing. A total of not less than 45 square feet (4.18 m<sup>2</sup>) of clear vision

TABLE A108  
INDOOR ENVIRONMENTAL QUALITY AND COMFORT PROJECT ELECTIVES

SECTION	DESCRIPTION	MINIMUM NUMBER OF ELECTIVES REQUIRED AND ELECTIVES SELECTED	
A108.2	VOC emissions—flooring	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.3	VOC emissions—ceiling and wall systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.5	Architectural paints and coatings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.6	Views to building exterior—75%	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.6	Views to building exterior—90%	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.7	Post-construction, pre-occupancy baseline IAQ testing project electives (2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.8	Adhesives and sealants	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.9	Post-construction, pre-occupancy flush out	<input type="checkbox"/> Yes	<input type="checkbox"/> No

glazing in the exterior wall or roof shall be visible. The direct line of sight shall originate at a height of 42 inches (1067 mm) above the finished floor of the space, shall terminate at the clear vision glazing in the exterior wall or roof, and shall be less than 40 feet (12 192 mm) in length. Projects that have a direct line of sight to the exterior for 90 percent of the net floor area shall qualify for an additional project elective.

**Exception:** Where the direct line of sight is less than 25 feet (7620 mm) in length, a total of not less than 18 square feet (1.67 m<sup>2</sup>) of clear vision glazing in the exterior wall or roof shall be visible.

**A108.7 Post-construction, pre-occupancy baseline IAQ testing project electives.** Where projects are intended to qualify for these two project electives, after all interior finishes are installed the building shall be tested for indoor air quality and the testing results shall indicate that the levels of VOCs are less than 50 percent of all of the levels detailed in Table 806.1 of the *Green Construction Code* using testing protocols in accordance with ASTM D6196, ASTM D5466, ASTM D5197, ASTM D6345, and ISO 7708. Test samples shall be taken in not less than one location in each 25,000 square feet (1860 m<sup>2</sup>) of floor area or in each contiguous floor area.

**A108.8 Adhesives and sealants project elective.** Where projects are intended to qualify for an adhesives and sealants project elective, 100 percent of the adhesives and sealants shall have VOC limits that are more than 50 percent lower than the thresholds in Table 806.3(1).

**A108.9 Post-construction, pre-occupancy flush out.** After construction ends, and prior to occupancy and with all interior finishes installed, install new filtration media and perform a building flush-out by supplying a total air volume of 14,000 cubic feet of outdoor air per square foot (4,500 cubic meters of outdoor air per square meter) of floor area while maintaining an internal temperature of at least 60°F (15°C) and relative humidity no higher than 60 percent.

ICC	IECC—12	International Energy Conservation Code	A104.9.1
			A104.9.2
			A104.9.4
			A106.2.2.1
			A106.2.2.2
			A106.2.4
			A106.2.5
			A106.3.3
			A106.4.2
			A106.4.3
ISO	13256-1: 1998	Water-source Heat Pumps—Testing and Rating for Performance – Part 1: Water-to-air and Brine-to-air Heat Pumps	Table A106.2.2.3
	13256-1: 1998	Water-source Heat Pumps—Testing and Rating for Performance – Part 2: Water-to-air and Brine-to-air Heat Pumps	Table A106.2.2.3
SMACNA		HVAC Air Duct Leakage Test Manual -1985	A106.2.4

## SECTION A109 REFERENCED STANDARDS

AHRI	Certified Direct GEO Exchange Certification 870-2011	Table A106.2.2.3
ASHRAE 90.1-2010	Energy Standard for Buildings Except Low-Rise Residential Buildings	A106.2.2.1
		A106.2.2.2
		A106.2.5
		A106.3.3
CDPH	Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions From Indoor Sources Using Environmental Chambers, Version 1.1 - 2010	A108.5
EPA	Energy Star	A106.2.2.1
		A106.2.2.2
		A106.2.5
		A106.3.3

