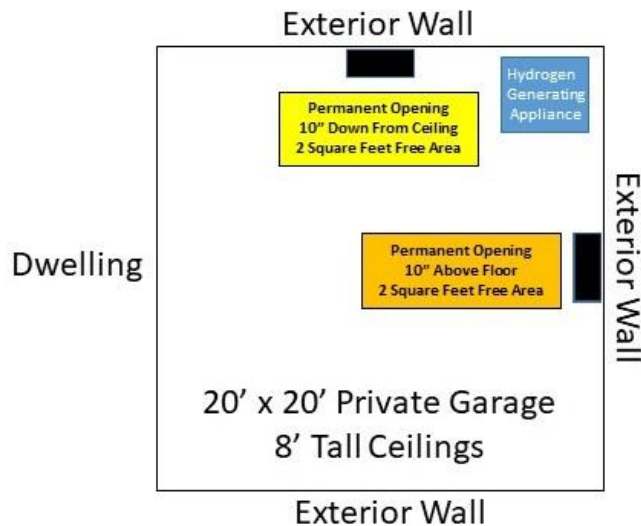




2015 Residential Code Question Of The Week



Do the two openings in the exhibit above satisfy code requirements if there is a hydrogen-generating appliance located in the private garage?

M1307.4 Hydrogen generating and refueling operations. *Ventilation* shall be required in accordance with Section M1307.4.1, M1307.4.2 or M1307.4.3 in private garages that contain hydrogen-generating *appliances* or refueling systems. For the purpose of this section, rooms or spaces that are not part of the *living space* of a *dwelling unit* and that communicate directly with a private garage through openings shall be considered to be part of the private garage.

M1307.4.1.1 Two openings. Two permanent openings shall be constructed within the garage. The upper opening shall be located entirely within 12 inches (305 mm) of the ceiling of the garage. The lower opening shall be located entirely within 12 inches (305 mm) of the floor of the garage. Both openings shall be constructed in the same exterior wall. The openings shall communicate directly with the outdoors and shall have a minimum free area of $\frac{1}{2}$ square foot per 1,000 cubic feet (1.7 m²/1000 m³) of garage volume.

Do not waste time on the exam doing calculations.
By the openings being in opposite exterior walls the answer is NO.



2015 Commercial Code Question Of The Week

A service sink shall not be required in _____.

- A) a bank with an occupant load of 20
- B) an S-2 storage facility
- C) an A-3 occupancy used for religious services
- D) All of the above would require a service sink



[P] TABLE 2902.1
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES*
(See Sections 2902.1.1 and 2902.2)

B	Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	—	1 per 100	1 service sink ^e
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A-3 ^d	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	1 per 125	1 per 65	1 per 200	—	1 per 500	1 service sink
	Passenger terminals and transportation facilities	1 per 500	1 per 500	1 per 750	—	1 per 1,000	1 service sink
	Places of worship and other religious services	1 per 150	1 per 75	1 per 200	—	1 per 1,000	1 service sink

S-1 S-2	Structures for the storage of goods, warehouses, storehouses and freight depots, low and moderate hazard	1 per 100	1 per 100	See Section 411 of the <i>International Plumbing Code</i>	1 per 1,000	1 service sink
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e. For business and mercantile occupancies with an occupant load of 15 or fewer, service sinks shall not be required.



2015 IMC Question Of The Week

You have a 50,000 BTU gas water heater and a 100,000 BTU forced air gas furnace in an isolated equipment room that is 12 x 16, with 8 foot ceilings. Using the standard method, is the room large enough for all required combustion air be taken from indoors?



SECTION 701 GENERAL

701.1 Scope. Solid fuel-burning *appliances* shall be provided with *combustion air* in accordance with the appliance manufacturer's installation instructions. Oil-fired *appliances* shall be provided with *combustion air* in accordance with NFPA 31. The methods of providing *combustion air* in this chapter do not apply to fireplaces, fireplace stoves and direct-vent *appliances*. The requirements for combustion and dilution air for gas-fired *appliances* shall be in accordance with the *International Fuel Gas Code*.



304.5 Indoor combustion air. The required volume of indoor air shall be determined in accordance with Section 304.5.1 or 304.5.2, except that where the air infiltration rate is known to be less than 0.40 air changes per hour (ACH), Section 304.5.2 shall be used. The total required volume shall be the sum of the required volume calculated for all appliances located within the space. Rooms communicating directly with the space in which the appliances are installed through openings not furnished with doors, and through *combustion air* openings sized and located in accordance with Section 304.5.3, are considered to be part of the required volume.

304.5.1 Standard method. The minimum required volume shall be 50 cubic feet per 1,000 Btu/h (4.8 m³/kW) of the *appliance* input rating.

Step 1 : Total BTU's of all appliances in space

$$50,000 + 100,000 = 150,000$$

Step 2. Multiply 50 x thousands of BTU's in space to get minimum area required for combustion air..

$$\text{Area (Volume) required} \\ 50 \times 150 \text{ (thousands)} = 7,500 \text{ cu/ft}$$

Step 3 : Find volume of space.

$$\text{Given} \\ 12 \times 16 \times 8 = 1536 \text{ cu/ft}$$

NO