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NEW QUESTION: 1

When testing dampers located in corridors, the dampers shall demonstrate acceptable closure performance when subjected to _____ fpm velocity across the face of the damper using the UL 555 fire exposure test.

- A. 75
- B. 100
- C. 150
- D. 200

Answer: (SHOW ANSWER)

Corridor damper testing under the referenced standard requires acceptable closure performance at 150 fpm across the face of the damper. Therefore Option C is correct.

NEW QUESTION: 2

Exhaust is required for which of the following areas?

- A. Gambling casinos
- B. Office break rooms
- C. High school locker rooms
- D. Prison guard stations

Answer: (SHOW ANSWER)

Under the IMC ventilation table, locker/dressing rooms and sports locker rooms are identified with required mechanical exhaust, while spaces such as guard stations do not carry that same exhaust requirement in the table. A high school locker room falls within the locker-room/sports-locker-room category, so Option C is the correct answer. Gambling casinos and office break rooms are provided outdoor air rates, but they are not the required-exhaust space among these listed choices.

NEW QUESTION: 3

Given: A recirculating industrial direct-fired makeup air heater has a rated input of 200,000 Btu/h .
Ventilation air is supplied by separate mechanical means.
Outside ventilation air shall be provided to supply at least _____ CFM.

- A. 250
- B. 400
- C. 800
- D. 1250

Answer: ([SHOW ANSWER](#))

The applicable provision requires direct-fired industrial air heaters to supply outside ventilation air at a rate of not less than 4 cfm per 1,000 Btu/h of rated input where ventilation air is provided by separate mechanical means. For 200,000 Btu/h , the required outside air is:

$$200,000 \div 1,000 = 200$$

$$200 \times 4 = 800 \text{ cfm}$$

So the correct answer is C

NEW QUESTION: 4

Supports for hazardous exhaust duct shall be constructed of:

- A. fibrous material.
- B. plastic.
- C. noncombustible material.
- D. material complying with UL 181.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 5

For the installation of listed fuel-burning appliances, the required clearances should be found:

- A. in the mechanical code.
- B. on the nameplate of the appliance.
- C. on the approved plans and specifications for the building.
- D. by using a calculation based on the Btu/h output rating of the appliance.

Answer: ([SHOW ANSWER](#))

The IMC requires fuel-burning units to be marked with the hourly rating, approved fuel type, and required clearances . That means the appliance marking/nameplate is the direct source for the required clearance information for listed fuel-burning appliances. This is why B is the correct answer.

NEW QUESTION: 6

What is the minimum air velocity that must be provided by an exhaust duct system serving a Type I range hood?

- A. 500 FPM
- B. 500 CFM
- C. 1,500 FPM
- D. 2,500 FPM

Answer: ([SHOW ANSWER](#))

For commercial kitchen exhaust associated with Type I hood systems, the recognized code-based minimum duct transport velocity is 1,500 feet per minute , so C is the correct answer. Option B uses the wrong unit, and the other listed velocities do not match the code minimum used for this question type.

NEW QUESTION: 7

ERV systems shall not be installed in which of the following except:

- A. systems utilizing coil-type exchangers.
- B. common exhaust systems for clothes dryers.
- C. exhaust systems emitting corrosive materials.
- D. equipment designed to assist in the evacuation of occupants.

Answer: A ([LEAVE A REPLY](#))

The IMC prohibits energy recovery ventilation systems in several applications, including hazardous exhaust systems , smoke control systems , commercial kitchen exhaust systems , and clothes dryer exhaust systems . Equipment intended to assist with occupant evacuation falls under smoke-control/life-safety type applications and is not an allowed ERV use. By contrast, systems utilizing coil-type exchangers are the exception among the listed choices because they are not one of the prohibited applications in this question. Therefore, Option A is correct.

NEW QUESTION: 8

To test for tightness, a consumer's gas piping should never be filled with:

- A. air.
- B. dry air.
- C. oxygen.
- D. inert gas.

Answer: ([SHOW ANSWER](#)**)**

The IFGC section on test medium states that the test medium shall be air, nitrogen, carbon dioxide or an inert gas , and specifically states that oxygen shall not be used as a test medium . That makes C the correct answer.

NEW QUESTION: 9

Shutoff valves in plastic pipe ground-source heat pump loop systems shall be installed on both sides of which one of the following?

- A. Expansion tanks
- B. Heat-fusion joints
- C. Change-in-material joints
- D. Pressure-reducing valves

Answer: ([SHOW ANSWER](#)**)**

In the IMC hydronic piping provisions for ground-source heat pump loop systems, shutoff valves are required on both sides of a pressure-reducing valve . That matches D . Heat-fusion joints and change-in-material joints do not trigger this two-sided shutoff-valve requirement.

NEW QUESTION: 10

What is the minimum distance required between a combustion air opening at the exterior of a building and a lot line?

- A. 2 feet
- B. 3 feet
- C. 8 feet

D. 10 feet

Answer: ([SHOW ANSWER](#))

The ICC opening-location rule requires intake openings to be located not less than 10 feet from lot lines or buildings on the same lot . A combustion-air opening taken from the exterior follows that minimum separation rule, so 10 feet is the correct answer. Therefore, Option D is correct.

NEW QUESTION: 11

An equipment shutoff valve shall be in the same room and not more than how many feet away from the appliance?

A. 6

B. 7

C. 8

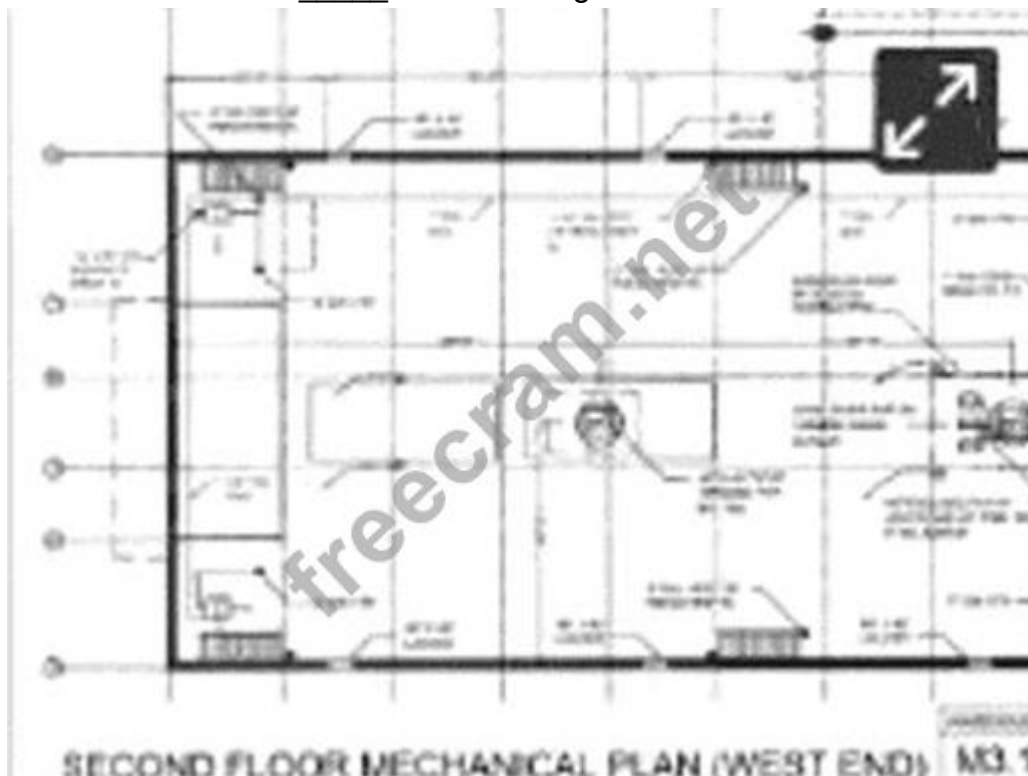
D. 9

Answer: ([SHOW ANSWER](#))

The IFGC requires the appliance shutoff valve to be located in the same room as the appliance and within 6 feet of the appliance . Therefore, the correct answer is A .

NEW QUESTION: 12

The exhibit shows a _____ in. diameter gas line between unit heaters 5 and 8.



A. 3/4

B. 1

C. 1-1/8

D. 1-1/4

Answer: B ([LEAVE A REPLY](#))

Based on the mechanical plan shown in the exhibit, the gas line between unit heaters 5 and 8 is labeled as 1 inch in diameter. Therefore, the correct answer is B.

NEW QUESTION: 13

Given: The listed clearance is 12 inches.

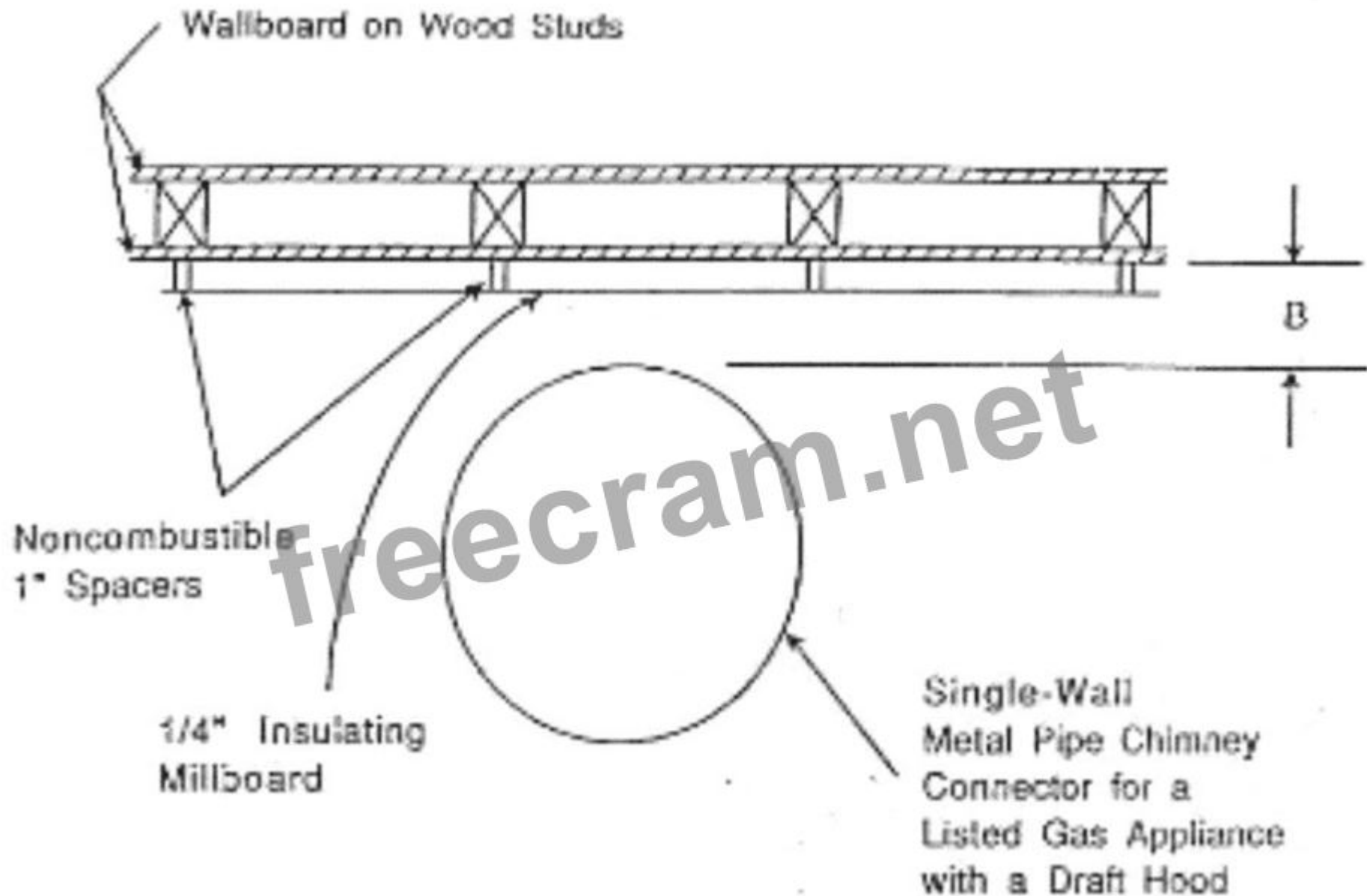


Figure No. 257

What would be the reduced clearance to combustibles, in inches, if the millboard is replaced with 24-gauge sheet metal?

- A. 2
- B. 4
- C. 6
- D. 3

Answer: ([SHOW ANSWER](#))

For a clearance-reduction system using 24-gauge sheet metal with a ventilated 1-inch air space, the recognized reduction method brings a 12-inch listed clearance down to 4 inches. That matches Option B.

This is also consistent with the protection method shown in the exhibit.

NEW QUESTION: 14

When a permit is issued, the code requires that one set of approved plans and specifications be returned to the applicant.

This set of plans and specifications shall be:

- A.** kept on the building site.
- B.** returned to the architect.
- C.** filed with the county clerk or jurisdiction to properly record the property.
- D.** retained by the applicant for at least one year after the job is finished in the event modifications are made.

Answer: ([SHOW ANSWER](#))

Under the ICC administrative provisions used with the mechanical code, one approved set is retained by the code official, and one approved set is returned to the applicant. The returned set must be kept on the site of the building or job while the authorized work is in progress. That directly matches Option A . It does not require return to the architect, filing with the county clerk, or retention for one year after completion.

NEW QUESTION: 15

Exposed solar thermal equipment protected by motor vehicle impact may be installed at what height?

- A.** Directly on finished floor
- B.** 6 feet above finished floor
- C.** 18 inches above finished floor
- D.** 48 inches above finished floor

Answer: ([SHOW ANSWER](#))

The IMC states that solar thermal equipment exposed to vehicular traffic must be installed not less than 6 feet above the finished floor . It then gives an exception stating that this requirement does not apply where the equipment is protected from motor vehicle impact . Because the height requirement is removed by that exception, the best answer from the choices given is A, directly on finished floor . This is an inference from the exception language.

NEW QUESTION: 16

Supports for hazardous exhaust duct shall be constructed of:

- A.** plastic.
- B.** fibrous material.
- C.** noncombustible material.
- D.** material complying with UL 181.

Answer: ([SHOW ANSWER](#))

Hazardous exhaust systems are regulated under the IMC provisions for special exhaust because they handle potentially dangerous fumes, vapors, dusts, or other contaminants. The code requires the duct system and its support components to be suitable for that hazard level, and supports for hazardous exhaust duct must be constructed of noncombustible material . That is why Option C is correct. Plastic and fibrous supports would not satisfy the required fire and safety performance, and UL 181 applies to certain factory-made air ducts and connectors, not as the governing support-material rule for hazardous exhaust duct supports.

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NEW QUESTION: 17

Exhibit:

EQUIPMENT

C.B. - 1,2 & 3 G.I. #TET36A/600A 200/21/70
 FV - 1,2 & 3 G.I. 1200CENTERS BOMBY INPUT
 CRK's - WAPTEL MODEL 3030 1.50W 120/W
 E.B.R.H. - WAPTEL MODEL 9700 2.50W 200/W
 C.E.F. - 1,2 & 3 HUYNE MODEL QF-110 120V
 C.E.F. - 4 & 5 HUYNE MODEL 885H
 E.F. - 1 & 2 CARNET MODEL VEDA 30 11P - 200/3M
 LOUVERS - ARROW MODEL 375 W/MOTORIZED DAMPERS

CEF-5 is a ceiling exhaust fan manufactured by:

- A.** G.E.
B. Carnes
C. Markel
D. Nutone

Answer: ([SHOW ANSWER](#))

This is also an exhibit-reading question. From the equipment schedule in the image, CEF-5 is listed as a Nutone unit, so Option D is correct. This falls under reading commercial mechanical drawings and equipment schedules related to exhaust/ventilation components.

NEW QUESTION: 18

The minimum dimension for rectangular air ducts used to supply combustion air for natural draft systems is inches.

- A. 2**
B. 3
C. 4
D. 6

Answer: ([SHOW ANSWER](#))

The IMC combustion-air provisions require openings used for combustion air to have a minimum cross-sectional dimension of 3 inches. Where ducts are used, they must be of the same cross-sectional area as the openings to which they connect. That makes 3 inches the correct answer, so Option B is correct.

NEW QUESTION: 19

A cooling system with a condensate disposal system:

- A.** shall be made of approved corrosion-resistant material and shall not decrease in size from the drain pan connection to the place of condensate disposal.
- B.** shall be made of an approved pipe and be at least 1/2-inch in diameter.
- C.** shall not be less than 3/4-inch PVC pipe or equivalent approved material.

D. shall have all horizontal sections of drain piping installed with a minimum of 1/4 inch per foot slope.

Answer: ([SHOW ANSWER](#))

The ICC mechanical code requires condensate disposal components to be of approved corrosion-resistant material , and the drain line shall not decrease in size from the drain pan connection to the place of disposal.

The code minimum size is 3/4 inch , so the 1/2-inch statement is incorrect, and the code is not limited to PVC only. Also, the slope requirement for horizontal drain piping is not less than 1/8 inch per foot , not 1/4 inch per foot. That makes Option A the only fully correct statement.

NEW QUESTION: 20

Unless listed for a greater or smaller dimension, mechanical draft venting systems shall terminate a minimum of _____ feet below an openable window.

- A. 1
- B. 4
- C. 8
- D. 12

Answer: ([SHOW ANSWER](#))

For mechanical draft venting systems, unless the appliance is listed for a different clearance, the vent terminal must be located not less than 4 feet below , 4 feet horizontally from , or 1 foot above any door, operable window, or gravity air inlet into a building. Therefore, the required minimum distance below an openable window is 4 feet , so Option B is correct.

NEW QUESTION: 21

Why are two or more sets of construction documents, engineering calculations, diagrams, and other data required to be submitted with each application for a permit?

- A. To ensure that the project is completed in a timely manner.
- B. All sets are to be retained by the code official in order to have a spare set of construction documents for use by any subcontractors.
- C. All sets of documents are to be kept by the code official, and at least one set will serve as a backup set of documents in case the other is lost or misplaced.
- D. One set will be retained by the code official, and the other will be returned to the applicant and kept on the job site for reference while construction is in progress.

Answer: ([SHOW ANSWER](#))

The ICC administrative provisions require construction documents to be submitted in two or more sets with the permit application. After approval, one set is retained by the code official and one set is returned to the applicant to be kept on the job site during construction. That is exactly the condition described in Option D .

The code does not state that all sets are retained by the code official or that the purpose is to provide subcontractor copies or backup copies.

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