




## 2015 Residential Code Question Of The Week

Rafters framed to a 1.5" ridge shall be offset from each other not more than \_\_\_\_.

- A. 1.5" 
- B. 2"
- C. Twice the thickness of the ridge board
- D. No Requirement

**R802.3 Framing details.** Rafters shall be framed not more than 1½-inches (38 mm) offset from each other to ridge board or directly opposite from each other with a gusset plate as a tie. Ridge board shall be not less than 1-inch (25 mm) nominal thickness and not less in depth than the cut end of the rafter. At valleys and hips there shall be a valley or hip rafter not less than 2-inch (51 mm) nominal thickness and not less in depth than the cut end of the rafter. Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where the roof pitch is less than three units vertical in 12 units horizontal (25-percent slope), structural members that support rafters and ceiling joists, such as ridge beams, hips and valleys, shall be designed as beams.





## 2015 Commercial Code Question Of The Week

A complying Group H-2 aircraft paint hangar may be unlimited in floor area when limited to one story, provided the hangar is surrounded by yards or public ways having a minimum width of \_\_\_\_\_.

- A. 40 feet
- B. 50 feet
- C. 60 feet
- D. 1-1/2 times the height of the hangar ←

**507.10 Aircraft paint hangar.** The area of a Group H-2 aircraft paint hangar no more than one *story above grade plane* shall not be limited where such aircraft paint hangar complies with the provisions of Section 412.6 and is surrounded and adjoined by *public ways* or *yards* not less in width than one and one-half times the *building height*.





## 2015 IECC Commercial Question Of The Week

A proposed building will have 90,000 square feet of gross exterior above-grade wall area and is proposing 49,500 square feet of glass area. The glass area to be used to determine the standard design for the building shall be \_\_\_\_ square feet.

- A. 36,000
- B. 49,500
- C. 63,000
- D. 24,750

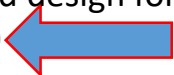


TABLE C407.5.1(1)  
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS

BUILDING COMPONENT CHARACTERISTICS	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Space use classification	Same as proposed	The space use classification shall be chosen in accordance with Table C405.5.2 for all areas of the building covered by this permit. Where the space use classification for a building is not known, the building shall be categorized as an office building.
	Tvne: Insulation entirely above deck	As proposed

The first thing you should do is go to the index and look up "Standard Design". Standard design is the most important factor in this question. It directs you to section C407 and Table C407.5.1(1).

When you go to table C407.5.1(1) you are looking for glass area. You have to know that glass on the outside wall is "Vertical Fenestration". So you go to the first column of the table that says "Building Component Characteristics". Come down until you see "Vertical Fenestration".

Vertical fenestration other than opaque doors	Area	
	1. The proposed glazing area; where the proposed glazing area is less than 40 percent of above-grade wall area.	As proposed
	2. 40 percent of above-grade wall area; where the proposed glazing area is 40 percent or more of the above-grade wall area.	
	U-factor: as specified in Table C402.4	As proposed
	SHGC: as specified in Table C402.4 except that for climates with no requirement (NR) SHGC = 0.40 shall be used	As proposed
	External shading and PF: None	As proposed

The question includes you have 90,000 sq.ft. of gross exterior above-grade wall area with a proposed 49,500 sq ft of glass area. So what percentage of the above-grade wall area is proposed to be glazing?  $49,500 \div 90,000 = .55$  or 55%.

So you use #2 above. What is 40% of 90,000?  $90,000 \times .40 = 36,000$