

FENESTRATION – MAXIMUM ALLOWED AREA WORKSHEET

WS-4R

Project Title

Date

FENESTRATION PRODUCTS – NEW CONSTRUCTION- NEW BUILDINGS

Use this table for new building construction to account for total building % of fenestration.

A	B	C	D	E	F	G
#/Type/Pos. (Front, Left, Rear, Right, Skylight)	Orientation	Total Fenestration, West Facing Area (ft ²)	Total Fenestration for N, S, E Orientations Area (ft ²)	CFA (ft ²)	Total Percent of West Facing Fenestration ¹ (C/E) x 100%	Total % of Fenestration ² Including West (D/E) x 100% + F
	North					
	South					
	East					
	West					
	Totals					

1) If west facing area exceeds 5% of CFA in climate zones 2, 4, and 7-15, the performance approach must be used.

2) If total percent of fenestration exceeds 20% including West facing orientations then performance approach must be used. West facing area includes skylights tilted to the west or tilted in any direction when the pitch is less than 1:12 for Package D only.

FENESTRATION PRODUCTS – NEW CONSTRUCTION- ADDITIONS

✓ Less than 100 ft², Less than or Equal to 1000 ft², Greater 1000 ft²

A	B	C	D	E	F	G	H
#/Type/Pos. (Front, Left, Rear, Right, Skylight)	Orientation	Proposed Addition's CFA ^{1,2,3}	Proposed Addition's Fenestration Area (ft ²) ⁴	Fenestration Area Removed to make way for Addition (ft ²) ²	Total Area Added Fenestration ² (D - E)	Total % of West Facing Fenestration ² (G/C) x 100%	Total % of Fenestration ^{2,3,4} (F/C) x 100%
	North						
	South						
	East						
	West ⁴						
	Total						

1) Additions ≤100 sf are allowed to install up to 50ft² of fenestration and are exempt from the 5% west facing and 20% maximum total area limits and shall meet the U-factor and SHGC requirements of Package D. See Table 8-2 in the Residential Manual. Note: Leave columns E, F, G, H, and I blank.

2) Additions ≤1,000 ft², the maximum net allowed fenestration is 20% and may be increased additionally to by the amount of glazing removed in the wall that separates the addition from the existing house. However, the total West facing fenestration can not exceed 5% of the proposed addition's CFA including skylights orientated in any direction and tilted with a pitch of < 1:12. Column G can not exceed 5% and Column H can not exceed 20%.

3) Additions >1,000 ft², must meet Package D requirements. See Table 8-2 and Table 151-C in Appendix B of the RM or use Performance Approach.

4) The 5% west orientation restrictions are only for Climate zones 2, 4, and 7-15; for Climate Zones 2, 4 and 7-15 enter zero (0) in column E.

FENESTRATION PRODUCTS: ALTERATIONS

Use this table for alterations to an existing building where fenestrations products (windows) are being removed and/or added.

A	B	C	D	E	F	G	H	I
Existing CFA (ft ²)	Existing Orientation	Existing Area (ft ²)	Removed Orientation	Removed Area (ft ²)	Proposed Installed Orientation	Proposed Installed New Area (ft ²)	Total Net Fenestration (ft ²) (C-E+G)	Total % of Fenestration ^{1,2} (H/A) x 100% Max of 20%
	North		North		North			
	South		South		South			
	East		East		East			
	West		West		West			
	Total		Total		Total			

1) When 50 ft² or more of fenestration area is added to an existing building, then the fenestration must meet the requirements of Package D.

2) The area requirement for the total fenestration area for the whole building, including the added fenestration, must not exceed 20%. Otherwise, the Performance Approach must be used. See Section 8.3.3 in the RM for further details.