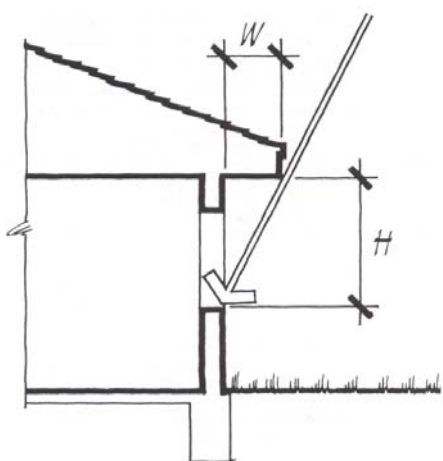




Overhang Dimensions For Summer Shading

The proper size and spacing of shading elements is a function of the orientation of the openings and the time of day and year when shading is needed. The following overhang sizing information comes from *Climatic Building Design* (Watson). For a more accurate determination based on time of year, please refer to sizing tables in *Sun, Wind & Light* (Brown). See reference list for further information.



Roughly appropriate overhang dimension W can be calculated by selecting the shade line factor (SLF) from the table below and inserting in the formula:

$$W \text{ (overhang dimension)} = H / \text{SLF}$$

Shade Line Factors (SLF) for Phoenix region (latitude 33.5°)	
Window Faces	Shade Line Factor
East	0.8
Southeast	1.4
South	3.6
Southwest	1.4
West	0.8

References:

Brown, G.Z. and DeKay Mark (2001) *Sun, Wind & Light: Architectural Design Strategies*, John Wiley & Sons, New York.

Watson, Donald and Labs, Kenneth (1983) *Climatic Building Design: Energy-Efficient Building Principles and Practice*, McGraw-Hill, New York.