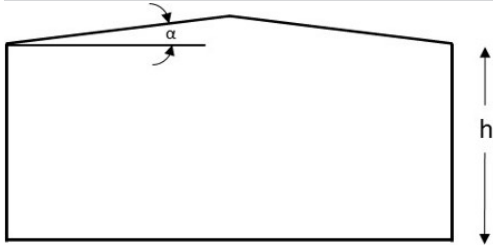


SYSTEM GUIDELINE ROOF ZONES

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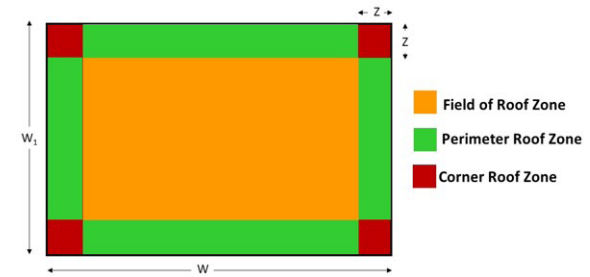
Low Slope



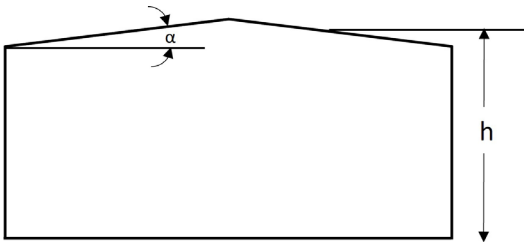
Calculation: $Z = \text{Lessor of: } 40\% \text{ of the Roof Height (h) or } 10\% \text{ of the lessor Building Plan (NOT ROOF) dimension (W}_1\text{), but not less than } 4\% \text{ of } W_1$

Criteria:

- $h \leq 65 \text{ ft.}$
- slope: $0^\circ \alpha \leq 7^\circ$
($0 \alpha 1.5/12$)
- $h < W_1$ (lessor Building Plan dimension)
- if $h > W_1$ refer to High Rise



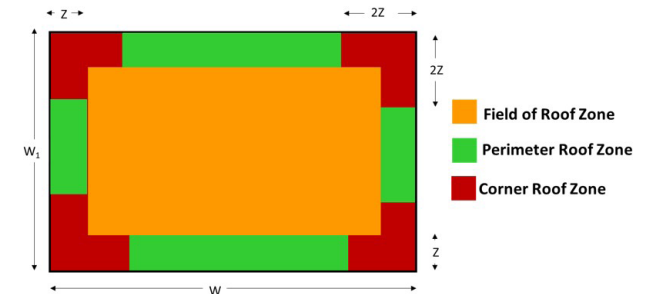
High Rise



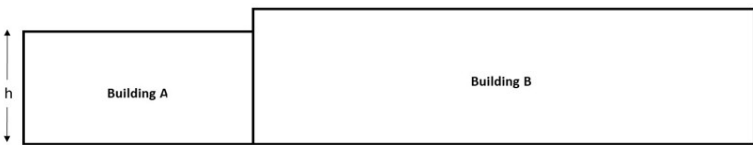
Calculation: $Z = 10\% \text{ of the greater Building Plan (NOT ROOF) dimension (W)}$

Criteria:

- $h > 65 \text{ ft.}$
- or if $h > W_1$



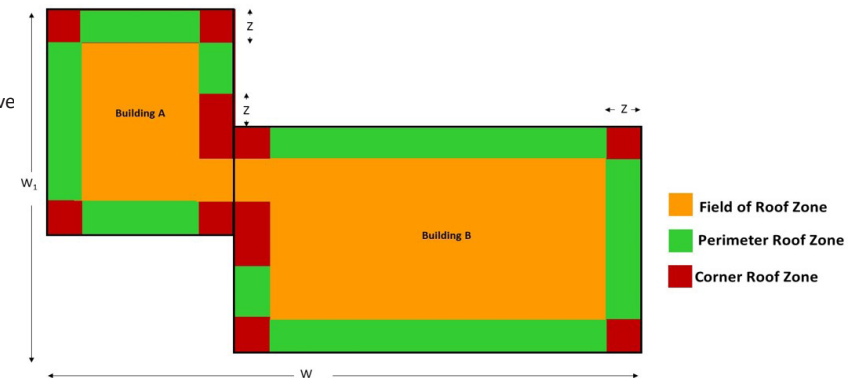
Stepped 1



Calculation: $Z = \text{Lessor of: } 40\% \text{ of the Roof Height (h}_1\text{) or } 10\% \text{ of the lessor Building Plan (NOT ROOF) dimension (W}_1\text{), but not less than } 4\% \text{ of } W_1$

Criteria:

- $h < 65 \text{ ft.}$
- slope: $0^\circ \alpha < 7^\circ$ ($0 \alpha 1.5/12$)
- Elevation of Building B is less than 10 ft. above the Elevation of Building A ($h_1 - h < 10\text{ft.}$)
- $h < W_1$ (lessor Building Plan dimension)
- if $h > W_1$ refer to High Rise



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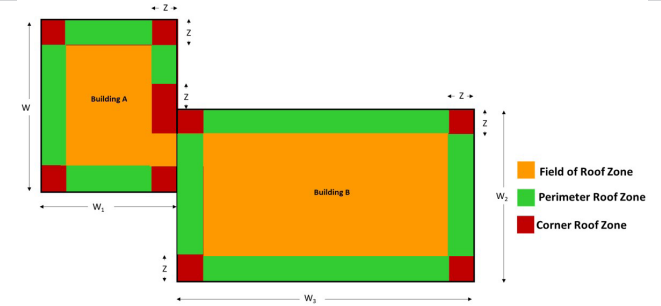
Stepped 2



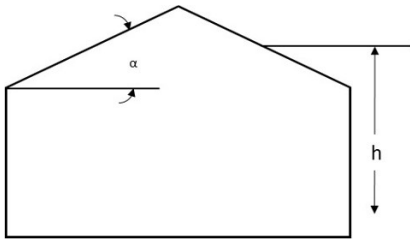
Note: Z is to be calculated separately for Building A and Building B.
 Building A, Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1 .
 Building B, Calculation: Z = Lessor of: 40 % of the Roof Height (h_1) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_2), but not less than 4 % of W_2 .

Criteria:

- $h < 65$ ft.
- slope: $0^\circ \alpha < 7^\circ$ ($0 \alpha 1.5/12$)
- Elevation of Building B is greater than 10 ft. above the Elevation of Building A ($h_1 - h > 10$ ft.)
- $h < W_1$ (lessor Building Plan dimension)
- $h_1 < W_2$ (lessor Building Plan dimension)
- if $h > W_1$ refer to High Rise
- if $h_1 > W_2$ refer to High Rise



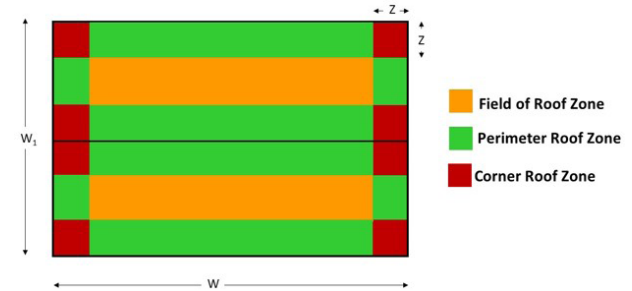
Gable



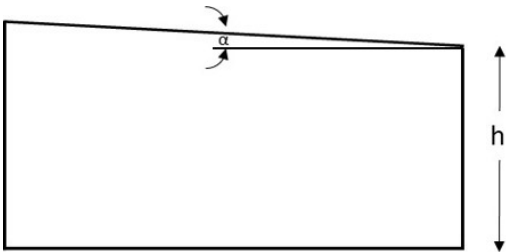
Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1 .

Criteria:

- $h < 65$ ft.
- slope: $7^\circ \alpha < 45^\circ$ ($1.5/12 \alpha 12/12$)
- $h < W_1$ (lessor Building Plan dimension)
- if $h > W_1$ refer to High Rise



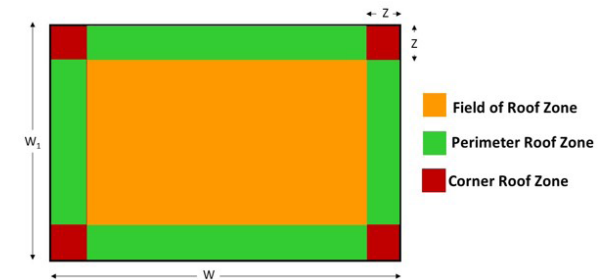
Monoslope 1



Calculation: Z = Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1 .

Criteria:

- $h < 65$ ft.
- slope: $0^\circ \alpha < 3^\circ$ ($0 \alpha .62/12$)
- $h < W_1$ (lessor Building Plan dimension)
- if $h > W_1$ refer to High Rise



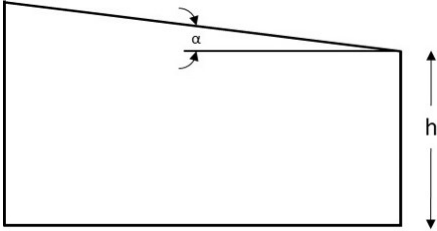
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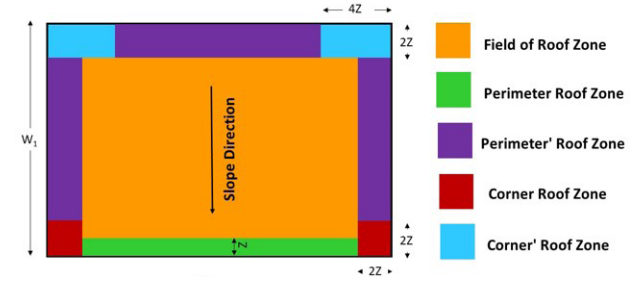
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Monoslope 2

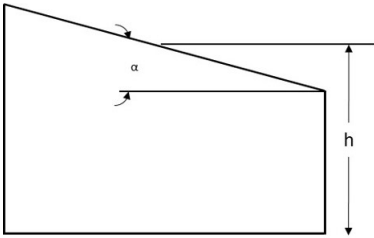


- Criteria:**
- $h < 65$ ft.
 - slope: $3^\circ < \alpha < 10^\circ$
(.6/12 α 2.1/12)
 - $h < W_1$ (lessor Building Plan dimension)
 - if $h > W_1$ refer to High Rise

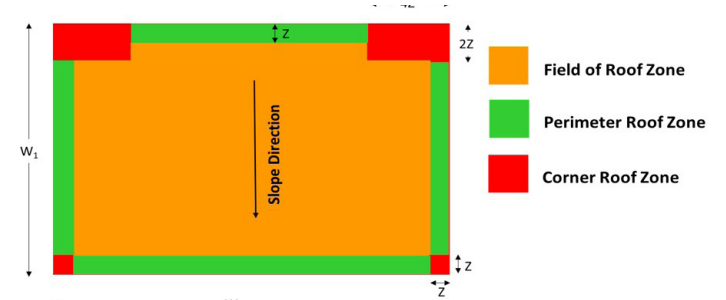


Calculation: $Z =$ Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

Monoslope 3

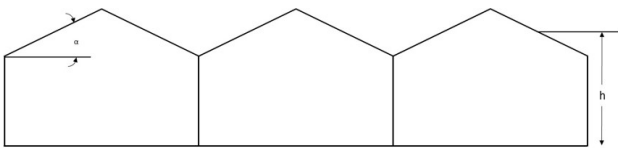


- Criteria:**
- $h < 65$ ft.
 - slope: $10^\circ < \alpha < 30^\circ$
(2.1/12 α 6.9/12)
 - $h < W_1$ (lessor Building Plan dimension)
 - if $h > W_1$ refer to High Rise

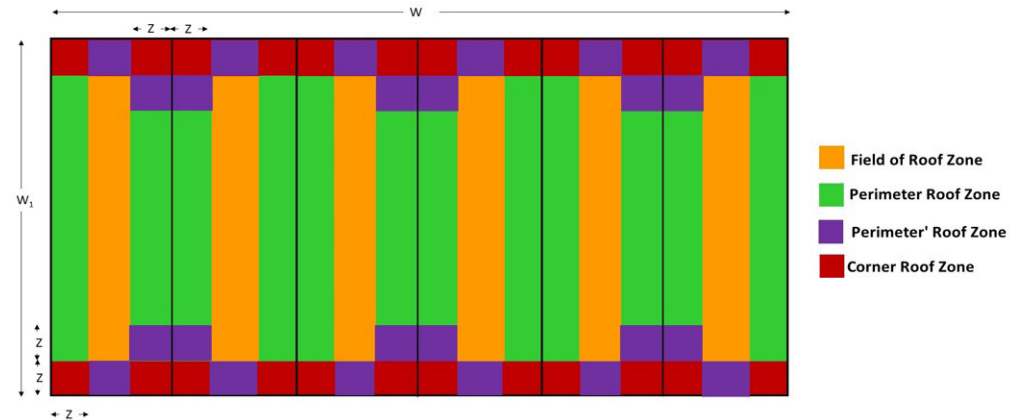


Calculation: $Z =$ Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

Multispan



- Criteria:**
- $h < 65$ ft.
 - slope: $10^\circ < \alpha < 45^\circ$
(2.1/12 α 12/12)
 - $h < W_1$ (lessor Building Plan dimension)
 - if $h > W_1$ refer to High Rise



Calculation: $Z =$ Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1

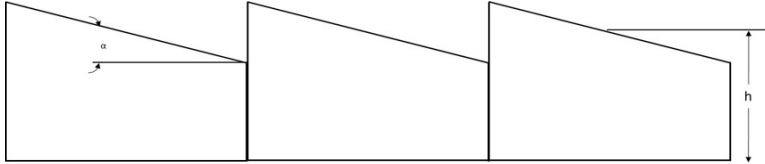
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SYSTEM GUIDELINE ROOF ZONES

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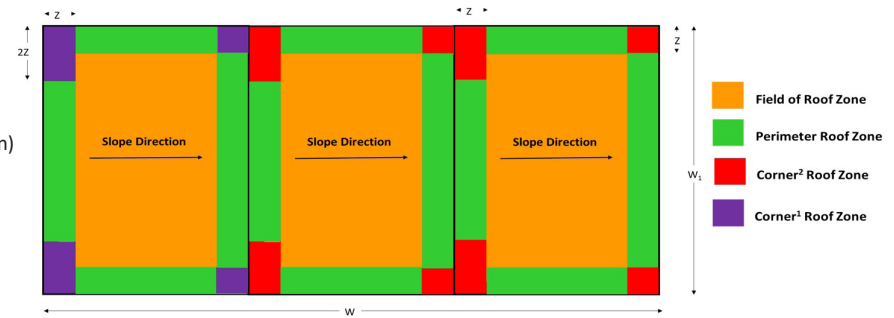
Sawtooth



Criteria:

- $h < 65$ ft.
- slope: $10^\circ < \alpha < 30^\circ$
(2.1/12 α 6.9/12)
- $h < W_1$ (lessor Building Plan dimension)
- if $h > W_1$ refer to High Rise

Calculation: $Z =$ Lessor of: 40 % of the Roof Height (h) or 10 % of the lessor Building Plan (NOT ROOF) dimension (W_1), but not less than 4 % of W_1



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