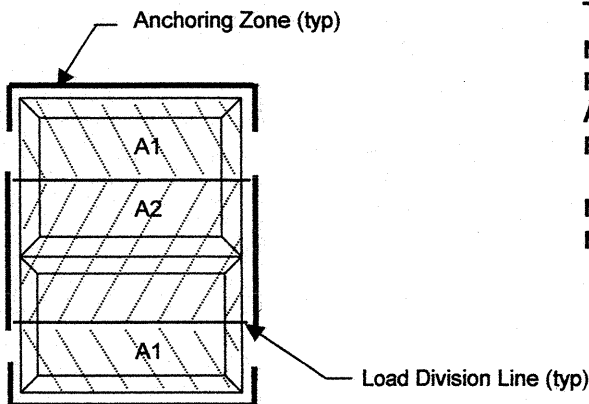


WINDOW FRAME ANCHORING

The 2001 FLORIDA BUILDING CODE requires window and door assemblies to be anchored according to the manufacturer's recommendations to achieve the design pressures specified (see Section 1707.4.4 Anchorage Methods). The sketches below represent the load paths used to calculate this anchoring.

WINDOW TYPE: Single or Double Hung

Load Path Sketch:



Anchoring Formula:

NA = Number of Anchors Required per Zone

P = Design Pressure (psf)

A1, A2 = Area (sq. feet) per zone

FV = Fastener Shear Value (lbs.)

$$NA1 = A1 * P / FV$$

$$NA2 = A2 * P / FV$$

Single or Double Hung window

Example:

48" wide X 72" high
 Design Pressure = 55 psf
 FV = 180 lbs.
 A1 = 6 sf
 A2 = 12 sf

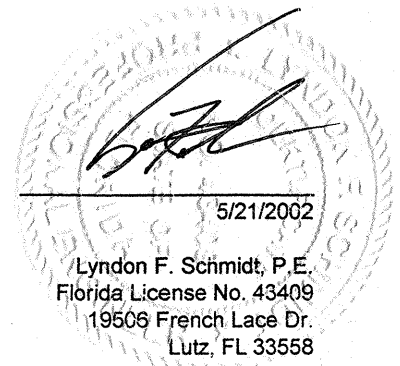
$$NA1 = A1 * P / FV$$

$$NA1 = (6)(55)/180 = 1.8 \text{ (round up to 2)}$$

$$NA2 = A2 * P / FV$$

$$NA2 = (12)(55)/180 = 3.7 \text{ (round up to 4)}$$

Therefore, a minimum of 2 anchors in each zone A1 and 4 anchors in zone A2 are required (8 total).



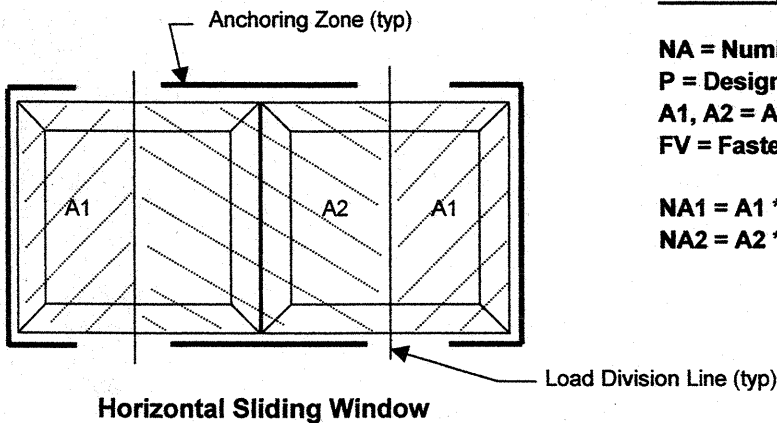
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WINDOW FRAME ANCHORING

The 2001 FLORIDA BUILDING CODE requires window and door assemblies to be anchored according to the manufacturer's recommendations to achieve the design pressures specified (see Section 1707.4.4 Anchorage Methods). The sketches below represent the load paths used to calculate this anchoring.

WINDOW TYPE: Horizontal Slider

Load Path Sketch:



Anchoring Formula:

NA = Number of Anchors Required per Zone
P = Design Pressure (psf)
A1, A2 = Area (sq. feet) per zone
FV = Fastener Shear Value (lbs.)

NA1 = $A1 * P / FV$
NA2 = $A2 * P / FV$


Example:

48" high X 72" wide
 Design Pressure = 55 psf
 FV = 180 lbs.
 A1 = 6 sf
 A2 = 12 sf

NA1 = $A1 * P / FV$
 NA1 = $(6)(55)/180 = 1.8$ (round up to 2)

NA2 = $A2 * P / FV$
 NA2 = $(12)(55)/180 = 3.7$ (round up to 4)

Therefore, a minimum of 2 anchors in each zone A1 and 4 anchors in zone A2 are required (8 total).

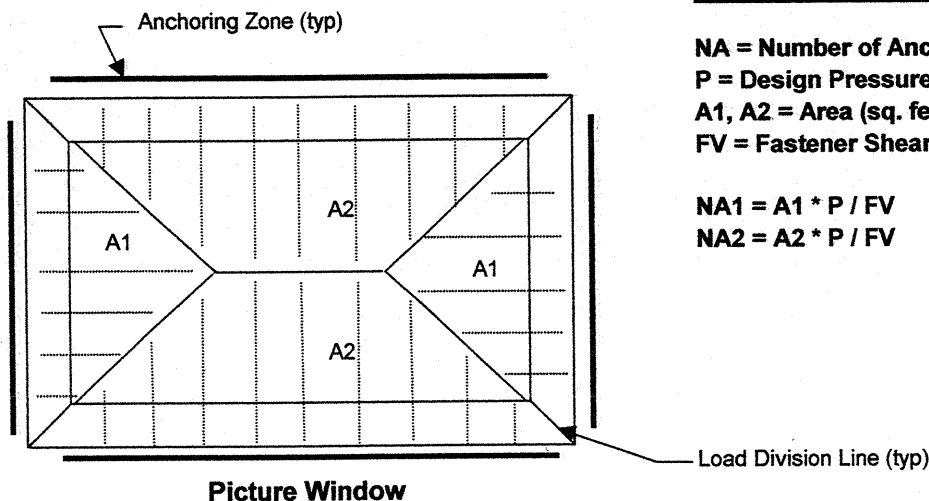

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WINDOW FRAME ANCHORING

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WINDOW TYPE: Picture

Load Path Sketch:



Anchoring Formula:

NA = Number of Anchors Required per Zone
P = Design Pressure (psf)
A1, A2 = Area (sq. feet) per zone
FV = Fastener Shear Value (lbs.)

NA1 = $A1 * P / FV$
NA2 = $A2 * P / FV$

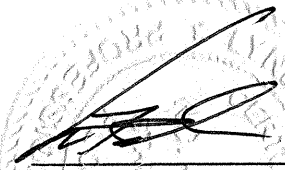
Example:

60" high X 78" wide
 Design Pressure = 60 psf
 FV = 180 lbs.
 A1 = 6.25 sf
 A2 = 10 sf

NA1 = $A1 * P / FV$
NA1 = $(6.25)(60)/180 = 2.1$ (round up to 3)

NA2 = $A2 * P / FV$
NA2 = $(12.5)(60)/180 = 4.2$ (round up to 5)

Therefore, a minimum of 3 anchors in each zone A1 and 5 anchors in each zone A2 are required (16 total).

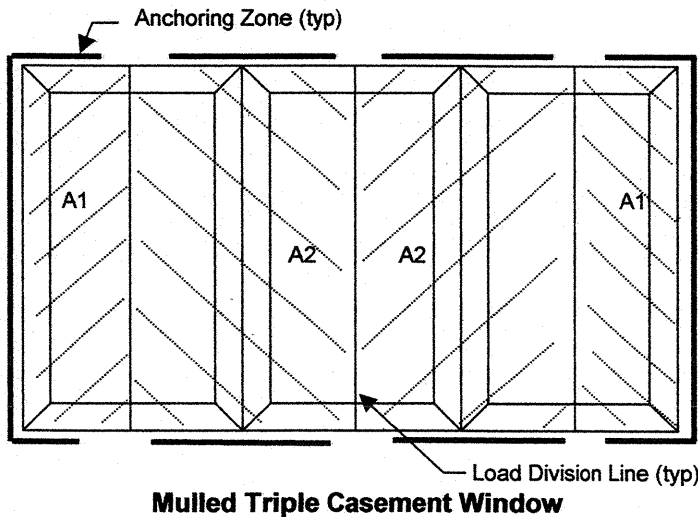

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WINDOW FRAME ANCHORING

The 2001 FLORIDA BUILDING CODE requires window and door assemblies to be anchored according to the manufacturer's recommendations to achieve the design pressures specified (see Section 1707.4.4 Anchorage Methods). The sketches below represent the load paths used to calculate this anchoring.

WINDOW TYPE: ENDVENT W/ CONTINUOUS HEAD & SILL

Load Path Sketch:



Muller Triple Casement Window

Anchoring Formula:

NA = Number of Anchors Required per Zone
P = Design Pressure (psf)
A1, A2 = Area (sq. feet) per zone
FV = Fastener Shear Value (lbs.)

NA1 = A1 * P / FV
NA2 = A2 * P / FV


Example:

72" high X 108" wide
 Design Pressure = 50 psf
 FV = 180 lbs.
 A1 = 9 sf
 A2 = 18 sf

NA1 = A1 * P / FV
 NA1 = (9)(50)/180 = 2.25 (round up to 3)

NA2 = A2 * P / FV
 NA2 = (18)(50)/180 = 5.0 (round up to 6)

Therefore, a minimum of 3 anchors in each zone A1 and 6 anchors in each zone A2 are required (18 total).


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