1303.2200 SIMPLIFIED WIND LOADS.

Subpart 1. **Section 2200.**

A. This section applies to the wind loads for the main wind force-resisting systems only.

B. In order to utilize wind loads from this part, the building shall meet the following requirements:

(1) 60 feet or less in height;

(2) height not to exceed least horizontal dimension;

(3) enclosed building;

(4) roof shape - flat, gabled, or hip;

(5) roof slope of 45 degrees maximum;

(6) simple diaphragm building;

(7) not a flexible building;

(8) regular shape and approximately symmetrical;

(9) no expansion joints or separations; and

(10) no unusual response characteristics (for example: vortex shedding, galloping, or buffeting).

Subp. 2. **Simplified design wind pressures.** P_s represents the net pressures (sum of internal and external) to be applied to the horizontal and vertical projections of building surfaces. For the horizontal pressures, P_s is the combination of the windward and leeward net pressures. P_s may be determined from the following equation:

$$P_s = K_{zt} (V_{ult}^2/115^2)P_{alt}$$

where:

K_{zt} = Topographic factor as defined in Chapter 26 of ASCE 7.

P_{alt} = Alternative simplified design wind pressure from Table P_{alt}.

TABLE P_{alt} [a]

Horizontal and Vertical Pressure[b]

Exp B	25 psf
Exp C	30 psf
Exp D	35 psf

Overhang Vertical Pressure[c]

Exp B	-40 psf
Exp C	-48 psf
Exp D	-56 psf

[a]Values are for ultimate wind design *(V_{ult})*. Multiply by 0.6 for allowable stress design (ASD).

[b]For vertical pressure, the above values are negative (upward).

[c]Negative values are upward.

Statutory Authority: *MS s 16B.59; 16B.61; 16B.64; 326B.02; 326B.101; 326B.106; 326B.13*

History: *32 SR 10; L 2007 c 140 art 4 s 61; art 13 s 4; 39 SR 91; 44 SR 537*

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