

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 Equation P_{alt} .

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

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}
Horizontal and Vertical Pressure*

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

*For vertical pressure, the above values are negative (upward).

Overhang Vertical Pressure*

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

*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*

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