

1.1 Department of Labor and Industry

1.2 Proposed Permanent Rules Adopting Changes to Minnesota Provisions of the State  
1.3 Building Code

1.4 1303.2200 SIMPLIFIED WIND LOADS.

1.5 [For text of subpart 1, see Minnesota Rules]

1.6 Subp. 2. **Simplified design wind pressures.**  $P_s$  represents the net pressures (sum  
1.7 of internal and external) to be applied to the horizontal and vertical projections of building  
1.8 surfaces. For the horizontal pressures,  $P_s$  is the combination of the windward and leeward  
1.9 net pressures.  $P_s$  may be determined from Equation P<sub>alt</sub> the following equation:

1.10 
$$P_s = K_{zt} (V_{ult}^2 / 115^2) P_{alt}$$
 (Equation P<sub>alt</sub>)

1.11 
$$P_s = K_{zt} (V_{ult}^2 / 115^2) P_{alt}$$

1.12 where:

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

1.14  $P_{alt}$  = Alternative simplified design wind pressure from Table P<sub>alt</sub>.

1.15 **TABLE P<sub>alt</sub>**

1.16 **Horizontal and Vertical Pressure<sup>\*b</sup>**

1.17	Exp B	25 psf
1.18	Exp C	30 psf
1.19	Exp D	35 psf

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

1.21 **Overhang Vertical Pressure<sup>\*c</sup>**

1.22	Exp B	-40 psf
1.23	Exp C	-48 psf
1.24	Exp D	-56 psf

1.25 \*Negative values are upward.

- 2.1 <sup>a</sup>Values are for ultimate wind design ( $V_{ult}$ ). Multiply by 0.6 for allowable stress design
- 2.2 (ASD).
- 2.3 <sup>b</sup>For vertical pressure, the above values are negative (upward).
- 2.4 <sup>c</sup>Negative values are upward.

# Office of the Revisor of Statutes

## Administrative Rules



**TITLE:** Proposed Permanent Rules Adopting Changes to Minnesota Provisions of the State Building Code

**AGENCY:** Department of Labor and Industry

**REVISOR ID:** R-4521

**MINNESOTA RULES:** Chapter 1303

The attached rules are approved for  
publication in the State Register



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