**Basic Wind Parameters**

- Wind Load Standard: ASCE 7-16
- Wind Design Speed: 150.0 mph
- Risk Category: III
- Structure Type: Building
- Building Type: Enclosed

**General Wind Settings**

- Incl_LF: Include ASD Load Factor of 0.6 in Pressures
- DynType: Dynamic Type of Structure
- NF: Natural Frequency of Structure (Mode 1)
- Zg: Altitude (Ground Elevation) above Sea Level
- Bdist: Base Elevation of Structure
- SDB: Simple Diaphragm Building
- Reacs: Show the Base Reactions in the output
- MNFRS: Method Selected

**Topographic Factor per Fig 26.8-1**

- Topo: Topographic Feature
- Kzt: Topographic Factor

**Building Inputs**

- Roof: Building Roof Type
- L: Length Along Ridge
- RE: Roof Entry Method
- Theta: Roof Slope

**Exposure Constants per Table 26.11-1:**

- Alpha: Const from Table 26.11-1
- Zg: Const from Table 26.11-1

**Overhang Inputs:**

- Std: Overhangs on all sides are the same
- OHType: Type of Roof Wall Intersections

**Components and Cladding (C&C) Calculations per Ch 30 Part 4:**

- h: Mean Roof Height
- LF: Load Factor based upon STRENGTH Design
- Kzt: Topographic Factor is 1 since no Topographic feature specified
- EAF: Exposure Adjustment Factor per Table 30.7-2
- LHD: Least Horizontal Dimension: Min(B, L)
- a1: Min(0.1 * LHD, 0.4 * h)
- a: Max(a1, 0.04 * LHD, 3 ft [0.9 m])
- 2a: Parameter used to define zone width
- Lambda: Adjustment factor per Table 30.6-2 to Fig 30.4-1 pressures

**Wind Pressures for Components and Cladding per Fig 30.4-1**

<table>
<thead>
<tr>
<th>Description</th>
<th>Zone Width</th>
<th>Span</th>
<th>Area</th>
<th>1/3 Rule</th>
<th>Ptable</th>
<th>Ptable</th>
<th>P</th>
<th>P</th>
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</thead>
<tbody>
<tr>
<td>ft</td>
<td>ft</td>
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<tr>
<td>Zone 1</td>
<td>1</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>No</td>
<td>16.50</td>
<td>-64.50</td>
<td>24.59</td>
</tr>
<tr>
<td>Zone 1*</td>
<td>1'</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>No</td>
<td>16.50</td>
<td>-37.00</td>
<td>24.59</td>
</tr>
<tr>
<td>Zone 2</td>
<td>2</td>
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<td>1.00</td>
<td>1.00</td>
<td>No</td>
<td>16.50</td>
<td>-85.10</td>
<td>24.59</td>
</tr>
<tr>
<td>Zone 3</td>
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<td>1.00</td>
<td>1.00</td>
<td>No</td>
<td>16.50</td>
<td>-115.90</td>
<td>24.59</td>
</tr>
<tr>
<td>Zone 4</td>
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<td>1.00</td>
<td>1.00</td>
<td>No</td>
<td>40.50</td>
<td>-43.90</td>
<td>60.35</td>
</tr>
<tr>
<td>Zone 5</td>
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<td>1.00</td>
<td>1.00</td>
<td>No</td>
<td>40.50</td>
<td>-54.20</td>
<td>60.35</td>
</tr>
</tbody>
</table>

**Components and Cladding (C&C) Zone Summary per Ch 30 Pt 4:**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Figure</th>
<th>A &lt;=</th>
<th>A =</th>
<th>A =</th>
<th>A &gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>psf</td>
<td>psf</td>
<td>psf</td>
<td>psf</td>
</tr>
</tbody>
</table>
The table below provides wind pressures for Components and Cladding (C&C) zones based upon areas as outlined in Chapter 30 Part 4:

<table>
<thead>
<tr>
<th>Zone</th>
<th>Span Length</th>
<th>Effective Width</th>
<th>Pressure (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>30.4-1</td>
<td>24.59</td>
<td>22.95-21.01</td>
</tr>
<tr>
<td>1'</td>
<td>30.4-1</td>
<td>24.59</td>
<td>22.95-21.01</td>
</tr>
<tr>
<td>3</td>
<td>30.4-1</td>
<td>24.59</td>
<td>22.95-21.01</td>
</tr>
<tr>
<td>2</td>
<td>30.4-1</td>
<td>24.59</td>
<td>22.95-21.01</td>
</tr>
</tbody>
</table>

* A is effective wind area for C&C: Span Length * Effective Width

* Effective width need not be less than 1/3 of the span length

* Maximum and minimum values of pressure shown.

* + Pressures acting toward surface, - Pressures acting away from surface

* Per Para 30.2.2 the Minimum Pressure for C&C is 16.00 psf (0.766 kPa) [Includes LF]

* Interpolation can be used for values of A that are between those values shown.