The City of Eagle Mountain’s Building Division uses the following design criteria when reviewing projects submitted for a building permit within City limits.

1. **BUILDING CODES:** The Building Division enforces the following building codes with State amendments.
   - 2015 International Building Code
   - 2015 International Residential Code
   - 2015 International Plumbing Code
   - 2015 International Mechanical Code
   - 2015 International Fuel Gas Code
   - 2016 International Existing Building Code
   - 2015 International Fire Code
   - 2014 National Electric Code

2. **SNOW LOADS:**
   a) **Ground Snow Load:** Site-specific depending upon elevation. The majority of the City is at or above 4,900 feet. Table 1 may be used to find the minimum ground snow loads. For elevations not shown in Table 1 refer to Section 15A-3-107 of the Utah Amended Code.

<table>
<thead>
<tr>
<th>Elevation (feet)</th>
<th>( P_g ) (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 4800</td>
<td>47</td>
</tr>
<tr>
<td>4900</td>
<td>50</td>
</tr>
<tr>
<td>5000</td>
<td>53</td>
</tr>
<tr>
<td>5100</td>
<td>57</td>
</tr>
<tr>
<td>5200</td>
<td>62</td>
</tr>
</tbody>
</table>

   *Table only valid if site elevation is within 100 feet of listed elevation.*
   
   b) **Roof Snow Loads:**
      - Shall be determined per Chapter 7 of ASCE 7-10.
      - At locations where the roof snow load exceeds 30psf, a percentage of the snow load must be considered in the effective seismic weight of the structure per Section 15A-3-107 of the Utah Amended Code.

3. **WIND:**
   a) **Speed:** All wind speeds listed below are 3-second gust at 33 feet above the ground.
      - Residential: 115 mph
      - Commercial (see IBC Table 1604.5):
        - Risk Category I = 105 mph
        - Risk Category II = 115 mph
        - Risk Category III & IV = 120 mph
   b) **Exposure:** Site specific (per Chapter 26 of ASCE 7-10). Typically “B” or “C”.
4. **SEISMIC:**
   a) **Seismic Design Category:**
      - Residential: D2
      - Commercial: D
   b) **Site-specific:** Because ground motions tend to vary substantially throughout the City, the mapped spectral accelerations ($S_0$ & $S_1$) should be obtained by considering the site-specific latitude and longitude values for the site and obtaining the ground motions from the “U.S. Seismic Design Maps” application developed by the USGS (http://earthquake.usgs.gov/designmaps/us/application.php).

5. **SOILS:**
   a) **Frost Depth:** 30 inches.
   b) **Site Class:** Site specific. See geotechnical report for site class.

6. **FLOOD HAZARDS:** See Flood Map.

7. **RAINFALL:** Average annual rainfall is 22 inches.

8. **CLIMATE ZONE:** 5B

9. **WEATHERING:** Severe

10. **TERMITE:** None to Slight

11. **WINTER DESIGN TEMP:** 0°F

12. **ICE SHIELD UNDERLAYMENT:** Yes

13. **AIR FREEZING INDEX:** ≤ 1000

14. **MEAN ANNUAL TEMP:** 45°F

*Last Revised: 12/2016*