### Asphalt Mix Gradation (Nmas)

1. 37.5 mm
2. 25.0 mm
3. 19.0 mm
4. 12.5 mm
5. 9.5 mm
6. 4.75 mm

### Traffic Level Classification
- **LT**: Low Volume (<1 Million ESALs)
- **MT**: Medium Volume (1-8 Million ESALs)
- **HT**: High Volume (>8 Million ESALs)

### Asphaltic Binder Grades
- **58-28**
- **58-34**

### Binder Designation
- **S**: Standard
- **H**: Heavy
- **V**: Very Heavy
- **E**: Extremely Heavy

### Layers
- **LOWER LAYERS:**
  - 58-28 S

- **OVERLAYS:**
  - 58-28 S, H, or V**

- **UPPER LAYERS:**
  - **Southern Asphalt Zone:**
    - 58-28 S, H, or V**
  - **Northern Asphalt Zone:**
    - 58-34 S, H, or V**

* New construction, reconstruction, or pavement replacement projects with 100 or more million ESAL's.
** Binder designation is to be used on >8 Million ESAL projects with slow moving traffic and SMA projects.
*** Binder designation is to be used on >30 Million ESAL projects.
**QUICK REFERENCE GUIDE**

**ASPHALT BID/MIX SPECIFICATIONS**

### Former "E" Mixes

<table>
<thead>
<tr>
<th>Former &quot;E&quot; Mixes</th>
<th>Updated Classification</th>
<th>Class (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-0.3</td>
<td>LT</td>
<td>&lt; 300,000</td>
</tr>
<tr>
<td>E-1</td>
<td>LT</td>
<td>300,000 to &lt; 1 M</td>
</tr>
<tr>
<td>E-3</td>
<td>LT</td>
<td>1 M to &lt; 3 M</td>
</tr>
<tr>
<td>E-10</td>
<td>LT</td>
<td>3 M to &lt; 10 M</td>
</tr>
<tr>
<td>E-30</td>
<td>LT</td>
<td>10 M to &lt; 30 M</td>
</tr>
<tr>
<td>E-30X</td>
<td>LT</td>
<td>≥ 30 M</td>
</tr>
</tbody>
</table>

**SMA**

**Asphaltic Binder Grade**

**Traffic Level**

**Binder Designation**

**MIX TABLE:**

**BID ITEM EXAMPLE:**

3 LT 58-28 S

**STEP 1:** Select the Nmas gradations for your project

**STEP 2:** Select the traffic level (based on ESALs)

**STEP 3:** Select the asphaltic binders (based on project location)

**STEP 4:** Select the binder designation level

**STEP 5:** Repeat steps for any additional layers

**EXAMPLE EXPLANATION:**

**GRADATION:** 19.0 mm

**TRAFFIC:** Light Traffic <1 Million ESALs

**ASPHALTIC BINDER GRADE:** 58-28

**BINDER DESIGNATION:** S (standard)