### Illinois Modified Test Procedure

**Effective Date:** January 1, 2002  
**Revised Date:** April 5, 2021

**Standard Practice**  
for  
**Designing Stone Matrix Asphalt (SMA)**

Reference AASHTO R46-08 (2017)

<table>
<thead>
<tr>
<th><strong>AASHTO Section</strong></th>
<th><strong>Illinois Modification</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Document</td>
<td>This AASHTO document shall only be used in conjunction with a Special Provision that includes Illinois' SMA mix design and ingredient materials details.</td>
</tr>
</tbody>
</table>
| 2.1               | Revise reference to the individual standards as follows:  
M 325 (Illinois Modified)  
R 30 (Illinois Modified)  
Illinois Test Procedure 19  
Illinois Test Procedure 27  
Illinois Test Procedure 85  
T 166 (Illinois Modified)  
T 209 (Illinois Modified)  
T 283 (Illinois Modified)  
T 305 (Illinois Modified)  
T 312 (Illinois Modified) |
| 4.4               | Replace with:  
*Evaluating Moisture Susceptibility* – The moisture susceptibility of the mixture, designed and compacted in accordance with T 312 to a $V_a$ content of $7.0 \pm 1.0$ percent, is evaluated in accordance with T 283. |
| 5.3.1             | Replace with the following:  
The mixing temperature shall be according to IL Modified AASHTO T 312. |
| 5.3.2             | Replace with the following:  
The compaction temperature shall be according to IL Modified AASHTO T 312. |
| Note 3            | Delete |
| 5.5               | Revise to read:  
*Compaction of Specimens* – The compaction temperature is determined according to IL Modified AASHTO T 312. Laboratory samples of SMA are short-term conditioned according to IL Modified AASHTO R 30 and then compacted to either 50 or 80 gyrations according to the Standard Specifications, based on traffic level. |
| Note 5            | Delete |
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<td>11.1</td>
<td>Revise to read: Moisture susceptibility of the selected mixture is determined in accordance with T 283 using samples compacted in accordance with T 312 to a $V_a$ content of $7.0 \pm 1.0$ percent. The retained tensile strength level of the SMA shall be as specified in T 325 at $7.0 \pm 1.0$ percent $V_a$.</td>
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