

## Section 4137. Asphalt Binder

### 4137.01 GENERAL REQUIREMENTS.

- A. Meet the requirements for the type and grade specified in the contract documents.
- B. Use the performance grade specified in the contract documents and meet the requirements of AASHTO M 320. Determine performance grade according to AASHTO ~~PP-6~~ R 29.
- C. Do not add acids to modify asphalt binders.
- D. For asphalt binder grades with a temperature spread of 92° or greater, use binders that meet the PG+ requirements established by the Combined State Binder Group as follows:

**Table 4137.01-1: PG+ Requirements**

Temperature Spread <sup>1, 2</sup>	92	98	104
Elastic Recovery: AASHTO T 301 at 77° F. (RTFO Aged AASHTO T 240)	65% min.	65% min.	65% min.
DSR Phase Angle; degrees (original binder)	77.0 max.	75.0max.	73.0 max.

<sup>1</sup> Temperature spread is determined by subtracting low temperature from high temperature; for example PG 64-28: 64 - (-28) = 92

<sup>2</sup> When a grade change is required to compensate for binder in recycled materials, the virgin binder provided shall meet the above requirements for the original grade specified in the contract documents.