

SUPPLEMENTAL SPECIFICATIONS FOR ASPHALT BINDER

Effective Date October 21, 2014

THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SUPPLEMENTAL SPECIFICATIONS AND THEY PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

Replace Section 4137 with the following:

4137.01 GENERAL REQUIREMENTS.

- **A.** Meet the requirements for the type and grade specified in the contract documents.
- B. Determine performance grade according to AASHTO R 29.
- C. Do not add acids to modify asphalt binders.
- **D.** For asphalt binder grades with a temperature spread of 92° or greater¹, use binders that meet the PG+ requirements established by of the Combined State Binder Group as follows:

Table 4137.01-1: PG+ Requirements

Temperature Spread 1,2	92	98	104		
Elastic Recovery: AASHTO T					
301 at 77° F.	65% min.	65% min.	65% min.		
(RTFO Aged AASHTO T 240)					
DSR Phase Angle; degrees (original binder)	77.0 max.	75.0max.	73.0 max.		
1 Temperature spread is determined by subtracting low					
temperature from high temperature; for example PG 64-28: 64					
- (-28) = 92					
2 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					

AASHTO R29 Grade	AASHTO T350 Minimum Percent Recovery (R _{3.2}) Test Temperature ²		DSR Phase Angle; degrees (original binder)
Ordao	58°C	64°C	
58-34P	30	25	77

64-28P	30	25	77
64-34P	55	45	75
70-22P	55	45	77
70-28P	55	45	75
70-34P	75	75	73
76-28P	75	75	73
76-34P	75	75	73
82-22P	75	75	73

- 1 Temperature spread is determined by subtracting low temperature from high temperature; for example PG 64-28: 64 (-28) = 92.
- 2 See figure 4137.01-01 for test temperatures.



