



TABLE 901 D

AGGREGATE PHYSICAL PROPERTY REQUIREMENTS FOR ASPHALT MIXES

| MATERIAL | S P E C I F I C A T I O N | TEST METHOD | | | | | |
|--|---|--|--|---------------------------------------|---|--------------------|--------------------|
| | | T 11 | T 96 | T 104 | D 4791 | MSMT 216 | T 279 |
| | | MATERIAL FINER THAN No. 200 SIEVE % max | LOS ANGELES ABRASION (LA) % max | SODIUM SULFATE SOUNDNESS % max | FLAT and ELONGATED (a) (h) % max | DFV (c) min | BPN (c) min |
| 4.75mm, 9.5mm, 12.5mm, and 19.0mm | M323 | — | 45 | 12 | 10 | 25 (b) | — |
| 4.75mm, 9.5mm, 12.5mm, and 19.0mm - HDFV | M323 | — | 45 | 12 | 10 | 45 (e) | — |
| 25.0mm and 37.5mm | M323 | — | 45 | 12 | 10 | — | — |
| GAP GRADED STONE MATRIX ASPHALT — 9.5mm, 12.5mm, and 19.0mm | M323 | — | 30 | 12 | 20/5 (g)(i) | 45 (e) | — |
| OPEN GRADED FRICTION COURSE 9.5 mm, 12.5 mm, 12.5 mm PEM (j) | MSMT 409 | 0.5 | 30 | 12 | 20/5 (g)(i) | 45 (e) | — |
| SLURRY SEAL (SS) and MICRO-SURFACING (MS) | — | — | — | 12 | — | 45 (f) | 16 |
| CHIP SEAL SURFACE TREATMENT | M 80, CLASS A | 1.0 (d) | 45 | — | — | — | — |

- (a) Dimensional ratio of calipers shall be 5:1.
- (b) Dynamic Friction Value (DFV) shall be 30.0 when any aggregate being blended has a DFV less than 25.0. DFV shall be 25.0 or greater when the aggregate from each source has a DFV of 25.0 or greater. Determine proportions of blended aggregate under MSMT 416. Not applicable for Gap Graded Stone Matrix surface mixes or any other surface mix requiring high polish aggregate.
- (c) DFV and British Pendulum Number (BPN) determined on parent rock. Reclaimed asphalt pavement (RAP) shall have a DFV of 30.0.
- (d) 1.0 for samples taken at the point of production. Samples taken at any point after shipment shall have no more than 1.5 percent finer than 0.075 mm sieve.
- (e) DFV shall be 50 when any aggregate being blended has a DFV less than 45. DFV shall be 45 when the aggregate from each source has a DFV of 45 or greater. Carbonate rock shall have a minimum of 25 percent insoluble residue retained on the 0.075 mm sieve
- (f) No blending allowed.
- (g) Dimensional ratio of calipers shall be 3:1/5:1.
- (h) Testing for flat and elongated particles shall be conducted on the blend.
- (i) Test conducted on particles retained on the 4.75 mm sieve.
- (j) Porous European Mix