

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 40 percent passing the #4 (4.75 mm) sieve for binder courses with Ndesign \geq 90.
- 3/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign \geq 90.
- 4/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer."

Delete Article 1030.04(a)(4) of the Standard Specifications.

Revise Article 1030.04(b)(1) of the Standard Specifications to read:

"(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

VOLUMETRIC REQUIREMENTS High ESAL						
Ndesign	Voids in the Mineral Aggregate (VMA), % minimum					Voids Filled with Asphalt Binder (VFA), %
	IL-25.0	IL-19.0	IL-12.5	IL-9.5	IL-4.75 ^{1/}	
50	12.0	13.0	14.0	15.0	18.5	65 – 78 ^{2/}
70					65 - 75	
90						
105						

1/ Maximum Drain-down for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 76-83 percent"

Delete Article 1030.04(b)(4) of the Standard Specifications.

Revise the Control Limits Table in Article 1030.05(d)(4) of the Standard Specifications to read:

"CONTROL LIMITS					
Parameter	High ESAL Low ESAL	High ESAL Low ESAL	All Other	IL-4.75	IL-4.75
	Individual Test	Moving Avg. of 4	Individual Test	Individual Test	Moving Avg. of 4
% Passing: ^{1/}					
1/2 in. (12.5 mm)	\pm 6%	\pm 4%	\pm 15%		
No. 4 (4.75 mm)	\pm 5%	\pm 4%	\pm 10%		
No. 8 (2.36 mm)	\pm 5%	\pm 3%			
No. 16 (1.18 mm)				\pm 4%	\pm 3%
No. 30 (600 μ m)	\pm 4%	\pm 2.5%			
Total Dust Content	\pm 1.5%	\pm 1.0%	\pm 2.5%	\pm 1.5%	\pm 1.0%

No. 200 (75 µm)					
Asphalt Binder Content	± 0.3%	± 0.2%	± 0.5%	± 0.3%	± 0.2%
Voids	± 1.2%	± 1.0%	± 1.2%	± 1.2%	± 1.0%
VMA	-0.7% ^{2/}	-0.5% ^{2/}		-0.7% ^{2/}	-0.5% ^{2/}

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement"