

## Sampling & Testing Guide-Minimum Frequency

April 20, 2010  
Supersedes October 21, 2008

### HOT MIX ASPHALT Section 2303 ~~B~~ 2213

Matls. IM 204  
Appendix F (US) Units

MATERIAL OR CONSTRUCTION ITEM	TESTS	METHOD OF ACCEPTANCE & RELATED IMs	QUALITY CONTROL					INDEPENDENT ASSURANCE, & VERIFICATION S&T						REMARKS
			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	
<b>SOURCE INSPECTION</b>														
Aggregates-Coarse (4127)		AS 209												
Aggregates-Fine (4127)		AS 209												
Hydrated Lime (4127)		AS 491.04												
Asphalt Binder		AS 437												
Emulsions & Cutbacks		AS 437												
Release Agent		AB 491.15												
<b>PLANT INSPECTION</b>														
Aggregates (2303)	Quality							V	DME 1/	20,000 Ton	50 lb.	CTRL		
Combined Aggregate (4127)	Gradation		RCE/ CONTR	1/lot	IM 301	CONTR		V	RCE/ CONTR	Sample 1/day, Test 1 <sup>st</sup> day + 20% Systems Approach*	IM 301	DME/ RCE	IM 216	
Moisture			CONTR	1 / half day	1000 gm	CONTR		IA						Dryer Drum Plants Only
AS-Approved Source ASD-Approved Shop Drawing S&T-Sampling & Testing			Cert A-Type A Certification Cert C-Type C Certification Cert D-Type D Certification				RCE-Resident Construction Engineer/Project Engineer DME-District Materials Engineer CTRL-Central Materials Office CONTR-Contractor				IA-Independent Assurance V-Verification			

\*A project approach may be applied at the discretion of the DME at the frequency 1/project.

**NOTE:** RCE/CONTR indicates that the Contractor shall assist in the sampling at the direction of and witnessed by the Project Engineer.

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			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY		REPORT
<b>PLANT INSPECTION</b>														
Mineral Filler								V	DME 1/	project	11 lb	DME	821278	
Asphalt Binder	DSR  Quality	AS Cert D						V  V IA	RCE/ CONTR  DME	Sample 1/day Test 1 <sup>st</sup> 1/week 1/20,000 T of Mix Systems Approach	4 oz tin  1 qt	DME  CTRL		Log all shipments
Cutback		AS 329												Log all shipments
Emulsion Residue		AS 360						V	RCE 1/	project	1 qt	DME		Plastic bottle required
<b>GRADE INSPECTION</b>														
Uncompacted Mixture:	Lab Density & Lab Voids	321, 325G	350	RCE/ CONTR	As per 2303	30 lb	CONTR		V  IA	RCE/ CONTR	As per 2303 Test 1/day Systems Approach	30 lb	DME	
	AASHTO T283	Article 2303, Section E.2 IM 510 App C							V	RCE/ CONTR	Test 1 <sup>st</sup> Sample at 500 tons Take 2 <sup>nd</sup> Sample at 2 <sup>nd</sup> Lot (test as needed)	70 lb	CTRL	
Compacted Mixture	Density, Thickness & Voids	320, 337	321					V  IA	RCE/ CONTR DME	Lot  1 lot/project*	7/lot	RCE  DME		
Smoot	hness		341	CONTR	100%	100%	CONTR	V	DME 10%			DME		
AS-Approved Source ASD-Approved Shop Drawing S&T-Sampling & Testing		Cert A-Type A Certification Cert C-Type C Certification Cert D-Type D Certification			RCE-Resident Construction Engineer/Project Engineer DME-District Materials Engineer CTRL-Central Materials Office CONTR-Contractor				IA-Independent Assurance V-Verification					

\* A system approach may be applied at the discretion of the DME.

**NOTE:** A Verification sample for asphalt binder quality and aggregate quality not required under 2000 tons of mix.

**NOTE:** RCE/CONTR indicates that the Contractor shall assist in the sampling at the direction of and witnessed by the Project Engineer.