

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes October 21, 2008

BASE REPAIR (2212), PAVEMENT REPAIR (PATCHES)
Sections 2529 & 2530

Matls. IM 204
Appendix T

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
SOURCE INSPECTION														
Aggregates Fine (4110)		AS 209												
Aggregates Coarse (4115)		AS 209												
Portland Cement (4101)	Quality	AS 401												
Fly Ash (4108)	Quality	AS 491.17												
GGBFS (Ground Granulated Blast Furnace Slag)	Quality	AS 491.14												
Curing Compound (4105)	Lab Tested	405												
Air Entraining Admixture (4103)	Quality	AS 403												
Granular Backfill	Gradation Quality	AS CERT AS CERT												
Drain Tubing	Quality	AS 443												
Epoxy Grout		AS 491.11												
Joint Seal (4136.02)	Lab Tested	AS 436.01 436.02												
Backer Rod (4136.02)		AS 436.04												
Steel Reinforcing	Quality	AS 451												
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	

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PLANT INSPECTION															
Aggregates-Coarse (4115)	Grad	302	306	336	CONTR	1/lot	IM 301	CONTR		V	RCE/ CONTR	Sample 1/wk Test 1 st day +20%	IM 301	RCE	
Moist				308	CONTR	1 / half day	1000 gm	CONTR							
Sp.	Gr.			307	CONTR	IM 527	1000 gm	CONTR							
Quality		AS		209											
Aggregate- Fine (4110)	Gradation	336	302, 306	336	CONTR	1/lot	IM 301	CONTR	830211	V	RCE/ CONTR	Sample 1/wk Test 1 st day+ 20%	IM 301 IM 301	RCE	
Moisture				308, 528	CONTR	1/lot	IM 301	CONTR	830211						See IM 528 if Moisture Probe is used
Sp.	Gr.			307	CONTR	IM 528	IM 301	CONTR	830211						
Quality		AS		209											
Portland Cement (4101)	Quality	AS		CERT D		Each Load									
Fly Ash	Quality	AS		CERT D		Each Load									
Air Entraining Admixture		AS		403						V	DME 1/batch		1 pt	CTRL	Sample lots not previously reported or as directed by DME
Water Reducing Admixture		AS		403						V	DME 1/batch		1 pt	CTRL	
Retarding Admixture		AS		403						V	DME 1/batch		1 pt	CTRL	
AS-Approved Source		Cert A-Type A Certification		RCE-Resident Construction Engineer/Project Engineer					IA-Independent Assurance						
ASD-Approved Shop Drawing		Cert C-Type C Certification		DME-District Materials Engineer					V-Verification						
S&T-Sampling & Testing		Cert D-Type D Certification		CTRL-Central Materials Office											
		CONTR-Contractor													

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GRADE INSPECTION														
Uncompacted HMA Mixture		Scale ticket with JMF number												Job Mix Formula (JMF) approved by DME
Plastic Concrete	Air Slump	318 317	327 327						V V	RCE RCE	1/30 cy 1/30 cy		RCE RCE	Minimum 1 per pour
Reinforcing Steel Epoxy-Coated Steel	Quality Quality	AS AS	451 451	Each	Shipment									
Calcium Chloride	Concentr.		373	RCE 1/lot			RCE							
Smoothness for Compacted HMA or Hardened Conc. (2529.10)			341	CONTR			CONTR							Approval by DME See Plans/Specs for exclusions
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