

Sampling and Testing Guide-Minimum Frequency

**CONCRETE BRIDGE FLOOR REPAIR & OVERLAY & SURFACING**  
Section 2413

Matls. IM 204  
Appendix M

April 15, 2008  
Supersedes October 16, 2007

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-Fine (4110)		AS	209												
Aggregates-Coarse (4115)		AS	209												
Portland Cement (4101)	Quality	AS	401												
Mixing Water (4102)	Quality	Lab Tested						V	RCE	1/source	1 qt.	CTRL		Not needed for potable Municipal Water	
Air Entraining Admixture (4103)	Quality	AS	403												
Water Reducing Admixture (4103)	Quality	AS	403												
Retarding Admixture (4103)		AS	403												
Curing Compound (4105)	Lab Tested		405					V	DME	1/batch	1 pt	CTRL		Sample lots not previously reported	
<b>PLANT INSPECTION</b>															
Aggregate-Fine (4110)		AS	Cert A												
Aggregate-Coarse (4115)	Quality	AS	Cert A					V	DME	1/project	50 lb	CTRL		DME may adjust frequency	
Portland Cement (4101)	Quality	AS	Cert D					V	DME	1/project	15 lb	CTRL			
Air Entraining Admixture (4103)		AS	403					V	RCE	Each batch	1 pt	CTRL		Sample if not previously reported	
Water Reducing Admixture (4103)		AS	403					V	RCE	Each batch	1 pt	CTRL		Sample if not previously reported	
Retarding Admixture (4103)		AS	403					V	RCE	Each batch	1 pt	CTRL		Sample if not previously reported	
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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			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY		REPORT
<b>GRADE INSPECTION</b>														
Plastic Concrete (2413)	Air	318, 327						V	RCE	1/100 sy		RCE		Freq. 1/load for ready mix
	Slump	317, 327						V	RCE	1/100 sy		RCE		Freq. 1/load for ready mix
	Density	358						V	RCE	See Note		RCE		For Class O PCC only.(1)
	Thickness								RCE	3/50 sy		RCE		
	Cylinders							V	DME	3/project		DME		Primary Projects only (Information Only)
Concrete Sealer (2413.09)	Quality	AS 491.12												
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			

(1) Nuclear density testing frequency for each placement shall be one test within 5 feet (1500 mm) of the beginning and end of the placement and additional tests shall be equally spaced a maximum of 100 feet (30 000 mm) throughout the length of the placement. Each placement shall have a minimum of three nuclear density tests.