

# BC MB NB NL NS SK Aggregate Laboratory Certification Program (Updated May 2017)

Certification Programs	
<b>Type C - Aggregate Quality Control</b>	
<b>1. Basic Aggregate Certification</b>	
Reducing Samples of Aggregate to Testing Size	ASTM C702
Minerals Finer than 75µm Sieve in Mineral Aggregates by Washing	C117
Sieve Analysis of Aggregates	C136
Determining the Percentage of Fractured Particles in Processed Coarse Aggregate	D5821
Flat and Elongated Particles in Coarse Aggregate (Participation is mandatory for all CCIL certified aggregate labs except Type C test D4791 is not applicable to SK labs )	D4791
<b>Additional Aggregate Certification Programs</b>	
<b>Must also participate in Basic Aggregate Certification, Number 1 above</b>	
<b>Type D - Advanced Aggregate Testing</b>	
(Type D tests are optional. Select each one individually when completing an application for certification)	
<b>2. Aggregate Tests</b>	
	<b>ASTM/LS/CSA/AASHTO</b>
Scaling Resistance	C672
Los Angeles Abrasion and Impact	C131&535
Relative Density of Coarse Aggregate	C127
Relative Density of Fine Aggregate	C128
Soundness of Aggregates by MgSO4	C88
Petrographic Analysis of Coarse Aggregate	LS-609
Organic Impurities in Concrete Sand	C40
Insoluble Residue of Carbonate Aggregates	D3042
Freezing & Thawing of Coarse Aggregate	CSA A23.2-24A
Determination of Alkali-Carbonate Reactivity	CSA A23.2-26A
Micro-Deval Abrasion of Coarse Aggregate	D6928
Micro-Deval Abrasion of Fine Aggregate	D7428
Accelerated Mortar Bar Test	CSA A23.2-25A
Resistance of Concrete to Rapid Freezing and Thawing	C666
<b>3. Superpave Aggregate Consensus Properties</b>	
Sand Equivalent Test	AASHTO T176/ D2419
Uncompacted Void Content of Fine Aggregate	AASHTO T304
Flat and Elongated Particles in Coarse Aggregate	D4791
Determining the Percentage of Fractured Particles in Coarse Aggregate	D5821
<b>4. Soil Tests</b>	
Compaction Characteristics of Soils Using Standard Effort	D698
Compaction Characteristics of Soils Using Modified Effort	D1557
Liquid Limit, Plastic Limit & Plasticity Index of Soils	D4318
Determination of Permeability of Granular Soils	D2434
Particle Size Analysis of Soils	AASHTO T88
Specific Gravity of Soil Solids	D854