

2026 CCIL Asphalt Correlation

ON QC Mix Compliance (MC) Instructions

Review your shipping address shown in the portal and update it if there are any changes through the request for services. When you receive your samples, review the shipment before signing off with the shipper.

SAMPLES

In your shipment, you should have received only 2 of the following bulk samples, (With no duplicates e.g., **MC-I-N** and **MC-I-N**):

MC-I-N,
MC-II-N,
MC-III-N,
MC-IV-N.

Each of these samples shall be tested individually, i.e., do not combine them.

TESTING

On receipt, each sample shall be warmed, and a representative portion obtained by quartering or using a riffle splitter. 2 replicates of this representative portion shall then be tested as per LS-264 (latest revision), "Method of Test for Theoretical Maximum Relative Density of Bituminous Paving Mixtures".

Sufficient material from each sample shall then be heated to the appropriate temperature to prepare 3 briquettes. The briquette specimens shall be prepared as per LS-261 (latest revision), "Method of Test for Preparation of Marshall Specimens".

Trough, moulds and hammers shall be preheated to $135 \pm 5^{\circ}\text{C}$.

For **MC-I-N**, use a briquette mass $1235 \pm 25 \text{ g}$ and the compaction temperature of **140°C**

For **MC-II-N**, use a briquette mass $1235 \pm 25 \text{ g}$ and the compaction temperature of **135°C**

For **MC-III-N**, use a briquette mass $1230 \pm 25 \text{ g}$ and the compaction temperature of **135°C**

For **MC-IV-N**, use a briquette mass $1250 \pm 25 \text{ g}$ and the compaction temperature of **133°C**

Note 1: With the manual hammer, the following should be noted: (a) the compaction pedestal must be secured; (b) the timing of blows for the **75 blows** should be 60 blows per minute (plus or minus 5 blows); (c) the hammer should be allowed to rebound between successive blows.

Thereafter the specimens shall be tested for:

1. Bulk relative density, LS-262 (latest revision) "Bulk Relative Density of Compacted Bituminous Mixes"
2. Marshall stability and flow, D6927 (latest revision), "Marshall Stability and Flow of Asphalt Mixtures"
3. Air voids, LS-265, (latest revision) "Determination of Percent Air Voids in Compacted Dense Bituminous Pavement Mixtures"
4. Voids in mineral aggregate, LS-266 (latest revision), "Determination of V.M.A. in Compacted Bituminous Mixtures"

Note 2: For calculation of the VMA use the values for aggregate bulk relative densities and asphalt cement provided on Pages 3 and/or Page 4. An example of a completed work sheet is shown on page 5. A copy of this sheet must be submitted with the laboratory worksheets. The VMA values shall be reported in the designated spaces on the Mix Compliance Report form.

2026 CCIL Asphalt Correlation

ON QC Mix Compliance (MC) Instructions

Note 3: Please identify the method used for the determination of flow by selecting from the dropdown feature on the Reporting Form.

An example of a completed report form is shown on Page 6.

All test results shall be reported online and submitted by **2026 January 16, Friday**.

Remember: Your lab's worksheets must be submitted through the portal with your correlation report. Please combine all worksheets for each portal report into a single pdf prior to uploading. You are required to keep all original worksheet hard copies in a secure dedicated location such as a sealed envelope that is available to CCIL upon request. Do not courier/mail/fax/e-mail the worksheets to CCIL.

DO NOT send reports and worksheets by fax.

2026 CCIL Asphalt Correlation

ON QC Mix Compliance (MC) Instructions

MIX COMPLIANCE - % VMA WORK SHEET (Materials I and II)

LABORATORY No: _____ LABORATORY NAME: _____

MATERIAL I

Coarse Aggregate 1	(CA1)	46.0%
Fine Aggregate 1	(FA1)	37.0%
Fine Aggregate 2	(FA2)	17.0%

BRD Coarse Aggregate	(CA)	2.684
BRD Fine Aggregate 1	(FA1)	2.681
BRD Fine Aggregate 2	(FA2)	2.758

Compacted Mix BRD (Db) SAMPLE # _____

(1) _____

(2) _____

(3) _____

% AC 5.00 % (by mass of total mix)

Combined Aggregate BRD (Gb): _____

% VMA = (1) _____ (2) _____ (3) _____

MATERIAL II

Coarse Aggregate 1	(CA1)	24.0%
Fine Aggregate 1	(FA1)	63.0%
Fine Aggregate 2	(FA2)	13.0%

BRD Coarse Aggregate 1	(CA1)	2.671
BRD Fine Aggregate 1	(FA1)	2.662
BRD Fine Aggregate 2	(FA2)	2.758

Compacted Mix BRD (Db) SAMPLE # _____

(1) _____

(2) _____

(3) _____

% AC 5.50 % (by mass of total mix)

Combined Aggregate BRD (Gb): _____

% VMA = (1) _____ (2) _____ (3) _____

2026 CCIL Asphalt Correlation

ON QC Mix Compliance (MC) Instructions

MIX COMPLIANCE - % VMA WORK SHEET (Materials III and IV)

LABORATORY No: _____ LABORATORY NAME: _____

MATERIAL III

Coarse Aggregate	(CA1)	38.0%
Fine Aggregate 1	(FA1)	25.0%
Fine Aggregate 2	(FA2)	22.0%
Recycled Aggregate	(RAP)	15.0%

BRD Coarse Aggregate	(CA)	2.671
BRD Fine Aggregate 1	(FA1)	2.662
BRD Fine Aggregate 2	(FA2)	2.681
Recycled Aggregate	(RAP)	2.682

Compacted Mix BRD (Db) SAMPLE # _____

(1) _____
(2) _____
(3) _____

%AC 5.00 % (by mass of total mix)

Combined Aggregate BRD (Gb): _____

% VMA = (1) _____ (2) _____ (3) _____

MATERIAL IV

Coarse Aggregate	(CA1)	41.5%
Fine Aggregate 1	(FA1)	46.8%
Fine Aggregate 2	(FA2)	11.7%

BRD Coarse Aggregate	(CA1)	2.781
BRD Fine Aggregate 1	(FA1)	2.652
BRD Fine Aggregate 2	(FA2)	2.743

Compacted Mix BRD (Db) SAMPLE # _____

(1) _____
(2) _____
(3) _____

%AC 5.00 % (by mass of total mix)

Combined Aggregate BRD (Gb): _____

% VMA = (1) _____ (2) _____ (3) _____

2026 CCIL Asphalt Correlation

ON QC Mix Compliance (MC) Instructions

MIX COMPLIANCE - % VMA WORK SHEET (EXAMPLE)

LABORATORY No: 175 LABORATORY NAME Apex Construction

MATERIAL I

Coarse Aggregate	(CA)	45.2%
Fine Aggregate #1	(FA1)	54.8%

BRD Coarse Aggregate	(CA)	BRD	2.697
BRD Fine Aggregate #1	(FA1)	BRD	2.659

Compacted Mix BRD (Db) SAMPLE MC-I-21

(1) 2.372

(2) 2.369

(3) 2.374

% AC 5.27% (by mass of total mix)

Combined Aggregate BRD (Gb): 2.676

% VMA = (1) 16.0 (2) 16.1 (3) 16.0

2026 CCIL Asphalt Correlation

ON QC Mix Compliance (MC) Instructions



Mix Compliance Report - Certification Program

- ▶ CCIL Confidential Lab # CCIL 999
- ▶ Lab Name: Demo Lab
- ▶ Tested by:
 - ☐ Lab Technician
 - ☐ Supervisor / Manager
 - ☒ Not listed

Please specify

Super Technician

Mix Compliance Report

Test	A-MC-(N) (i)	A-MC-(N) (ii)	A-MC-(N) (iii)	- Avg	B-MC-(N) (i)	B-MC-(N) (ii)	B-MC-(N) (iii)	- Avg
BRD - LS-262/D2726	2.376	2.380	2.379	2.378	2.421	2.430	2.426	2.426
MRD - LS-264/D2041	2.485	2.484		2.484	2.501	2.504		2.503
% Voids				4.3				3.1
% VMA	15.6	15.8	15.7	15.7	14.2	14.4	14.3	14.3
Stability (N)	10864	11625	11425	11305	9424	9821	9655	9633
Flow (0.25mm units)	10.4	10.2	10.3	10.3	9.6	10.2	9.9	9.9

Flow Measurement

Automated Method

Comments