

**Administration and Inspection Activities for
Performance Graded Asphalt Cement**

(As Specified in OPSS 1101)

1101.01 SCOPE

This CAIS covers the construction administration and inspection requirements for performance graded asphalt cements as specified in OPSS 1101, November 2020.

1101.02 REFERENCES

This CAIS refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Material:

OPSS 1101 Performance Graded Asphalt Cement (PGAC)

Construction Administration and Inspection Specifications (CAIS):

CAIS 100 MTO Contract Administration General Conditions (CAGC)

MTO Standard Special Provisions:

SSP 199S66 Quality Conformance Requirements

MTO Forms:

PH-CC-250 PGAC Test Reporting Sheet
PH-CC-824 Limiting Grade Report for Extended BBR Test
PH-CC-835 DENT Test Reporting Sheet - Load in lbf
PH-CC-836 DENT Test Reporting Sheet - Load in N
PH-CC-883 Bituminous Referee Testing Request

MTO Guidelines:

Field Guide for the Acceptance of Hot Mix Asphalt and Bridge Deck Waterproofing

1101.03 DEFINITIONS

For the purpose of this CAIS, the definitions shall be as specified in OPSS 1101.

1101.04 DESIGN AND SUBMISSION REQUIREMENTS

1101.04.01 Submission Requirements

1101.04.01.01 PGAC Product Documentation

Administrative Activities:

1	M	14 Days prior to the first use of each grade of Performance Graded Asphalt Cement (PGAC) specified in the Contract Documents, receive and Review the required PGAC product documentation as specified in OPSS 1101.	-
---	---	---	---

1101.04.01.02 PGAC Supply Documentation

Administrative Activities:

1	M	Prior to HMA production, and for each subsequent delivery, for each grade of PGAC specified in the Contract Documents, receive and Review the required PGAC supply documentation as specified in OPSS 1101.	-
---	---	---	---

1101.05 MATERIALS

Administrative Activities:

1	-	Review the PGAC product and supply documents and Check that the product meets the requirements as specified in OPSS 1101.	-
---	---	---	---

1101.08 QUALITY ASSURANCE

1101.08.01 Sampling

Inspection Activities:

1	M	Witness the PGAC samples being taken during production of HMA, at the HMA plant, and from the storage tank that is feeding the production of the HMA according to AASHTO R 66 and the plant's Health and Safety Plan. Record tank identifier and location of spigot from which sample is being taken. <u>Additionally, take a photograph of the PGAC being sampled from the sampling spigot into the labelled sample container. The photograph shall show the date when the sample was taken. Upload the photograph in CMS using the "References" section for the sample record.</u>	100%
2	M	Check that sampling frequency, quantity, and labelling is as specified in OPSS 1101 and the Contract Documents.	100%
3	M	Maintain continuous possession of the samples until they are sealed and delivered to MTO's designated laboratory.	100%

4	-	If the plant has more than one tank, conduct random plant visits in addition to sampling visits and record which tank is feeding the mix.	25%
---	---	---	-----

Administrative Activities:

1	M	Discuss the asphalt plant's Health and Safety Plan and procedures for sampling PGAC at the pre-pave meeting.	-
2	-	Notify the Contractor when each sample of PGAC is required.	-
3	-	Arrange for delivery of PGAC samples to MTO's designated laboratory.	-

1101.08.02 Lot Size

Administrative Activities:

1	M	Prior to HMA production and after discussion with the Contractor, determine the size and location of PGAC lots for each grade of PGAC for QA testing according to OPSS 1101 and the Field Guide for Acceptance of Hot Mix Asphalt and Bridge Deck Waterproofing.	-
2	-	Receive, Review and reply to requests, from the Contractor, to make the first tanker load a separate lot when switching performance grades. Only one request will be considered for the duration of the Contract.	-
3	-	Terminate the current PGAC lot: <ul style="list-style-type: none"> • If the source of PGAC is changed, or • When HMA production for the Contract ceases for a period of 20 Days or more and termination is deemed appropriate. 	-

1101.08.03 Acceptance Testing

Administrative Activities:

1	M	Receive and Review all test results for PGAC on Owner standard form PH-CC-250, PH-CC-824, and PH-CC-835/836.	-
2	M	Complete Owner standard form PH-CC-250 based on the PGAC requirements specified in OPSS 1101. Provide the Contractor with the test results for each lot as they become available. Submit the completed PH-CC-250, in excel format. For non-WBCMS Contracts, submit the completed PH-CC-250, in excel format, to the Regional Quality Assurance Section and bituminous@ontario.ca .	-

1101.08.04 Basis of Acceptance

Administrative Activities:

1	M	Using the requirements in OPSS 1101 and the test results, determine whether the PGAC lot should be categorized as acceptable, minor borderline, major borderline or rejectable. Discuss categorization of PGAC lot with the Regional Quality Assurance Section.	-
2	-	If the test results met the criteria of more than one category, contact the Regional Quality Assurance Section for selection of only one category for the lot.	-
3	-	If asphalt cement anti-stripping treatment is used and the Contractor submitted a request when production began, contact the Regional Quality Assurance Section to determine if an allowance will be made to the acceptance of the PGAC test results based on the impact of the anti-stripping treatment.	-
4	M	Notify the Contractor of the category for each lot.	-

1101.08.05 Referee Testing

Administrative Activities:

1	M	If referee testing of PGAC is requested by the Contractor, Check that it is within the time constraint and the test results category meet the requirements specified in OPSS 1101. Using Owner standard form PH-CC-883, coordinate the referee testing according to the Field Guide for Acceptance of Hot Mix Asphalt and Bridge Deck Waterproofing-CAIS 100.	-
2	M	Receive and Review all referee laboratory test results for PGAC on Owner standard form PH-CC-250, PH-CC-824, and PH-CC-835/836.	-
3	M	Complete Owner standard form PH-CC-250 based on the PGAC requirements specified in OPSS 1101. Provide the Contractor with the referee test results for each lot as they become available. Submit the completed PH-CC-250, in excel format. For non-WBCMS Contracts, submit the completed PH-CC-250, in excel format, to the Regional Quality Assurance Section and bituminous@ontario.ca .	-
4	-	Using the requirements in OPSS 1101 and the referee test results, determine whether the PGAC lot should be categorized as acceptable, minor borderline, major borderline or rejectable. Discuss categorization of PGAC lot with the Regional Quality Assurance Section.	-
5	-	If referee results met the criteria of more than one category, contact the Regional Quality Assurance Section for selection of only one category for the lot.	-

6	-	If referee testing did not confirm total conformance of the PGAC to the Contract Documents, the Contractor shall be charged the cost of the referee testing specified in the Contract Documents.	-
---	---	--	---

1101.08.06 Disposition of HMA Produced with Borderline and Rejectable Lots

Administrative Activities:

1	M	Receive and Review non-conformance reports from the Contractor for PGAC samples that do not conform to the requirements of OPSS 1101. If the Contractor has not issued a non-conformance report, initiate the non-conformance report as specified in SSP 199S66 and in CAIS 100, MTO Contract Administration General Conditions (CAGC) under Quality Process Management.	-
2	M	Using the category for the lot and the requirements in OPSS 1101, Determine whether the disposition of the HMA in the PGAC lot will be accepted at full payment, accepted with a payment reduction, or rejected.	-
3	-	If the lot is subject to a payment reduction, calculate the payment reduction according to OPSS 1101.	-
4	M	Notify the Contractor of the disposition of the HMA within the PGAC lot and any payment reduction that applies.	-
5	-	For lots with rejectable PGAC, determine whether the work will be repaired or subject to a payment reduction acceptable to MTO. Notify the Contractor of the requirement to repair the work or that the work will be accepted with a payment reduction.	-

WARRANT: Always with OPSS 1101, Material Specification for Performance Graded Asphalt Cement.