

Administration and Inspection Activities for Corrugated Steel Structural Plate

(As Specified in OPSS 1805)

1805.01 SCOPE

This CAIS covers the construction administration and inspection requirements for Corrugated Steel Structural Plate as specified in OPSS 1805, April 2026.

1805.02 REFERENCES

The references listed in OPSS 1805 shall apply to this CAIS, in addition to the following standards, specifications, forms, or publications.

Ontario Provincial Standard Specifications, Construction:

OPSS 912 Buried Corrugated Steel Structures with Span Greater than 3.0 m

Construction Administration and Inspection Specifications (CAIS):

CAIS 911 Coating Structural Steel and Railing Systems
CAIS 960 Buried Corrugated Steel Structures with Span Greater than 3.0 m

1805.03 DEFINITIONS

For the purpose of this CAIS, the definitions shall be as specified in OPSS 1805.

1805.04 DESIGN AND SUBMISSION REQUIREMENTS

1805.04.01 Design Requirement

Administrative Activities:

1	M	Check the design satisfies the requirements specified in the Contract Documents, CSA S6, Structural Manual, Division 1 and OPSS 960.	-
2	-	For design requirements additional administrative activities shall be as specified in CAIS 960.	-

1805.04.02 Submission Requirements

1805.04.02.01 Steel Mill Certificates

Administrative Activities:

1	-	Receive and Review the steel mill certificates at least 14 Days prior to fabrication of the corrugated steel structural plates.	-
2	-	Review the mill test certificates and provide comments to the MTO Contract Services Administrator (CSA) and MTO Regional Structural Section within 2 Business Days of receipt.	-
3	-	Ensure a final copy of all Contractor submissions is sent to the MTO CSA and MTO Regional Structural Section.	-

1805.04.02.02 Certification of Production Facility

Administrative Activities:

1	M	Receive Manufacturer's Certification as specified in the Contract Documents and Working Drawings	-
2	M	If coating of the corrugated steel structural plates is to be completed by a separate manufacturer, Receive Certification from the separate manufacturer at least 14 Days prior to fabrication of the corrugated steel structural plates.	-
3	M	Receive and Review the Certificate of Compliance as specified in the Contract Documents, and verify that it is no more than 3 years old, including verification of materials and coating.	-
4	M	Verify the validity of the Manufacturer's certification documents and ensure that submissions are made annually for multi-year contracts.	-

1805.05 MATERIALS

1805.05.01 Corrugated Steel Structural Plate

Administrative Activities:

1	SSI M	Check that all corrugated steel structural plates meet the requirements of CSA G401, OPSS 1805, and the Contract Documents.	-
2	-	When plates are specified to be coated with hot dip galvanizing, Check that hot dip galvanizing is according to OPSS 1805 and CSA G401.	-
3	-	When plates are specified to be coated with a thermoplastic copolymer coating, Check that coating is according to CSA G401.	-
4	-	When plates are specified to be coated with an epoxy duplex system coating, Check that coating is according to OPSS 911.	-

Inspection Activities:

1	-	When plates are specified to be coated with an epoxy duplex system coating, Check that epoxy duplex system coating is as specified in OPSS 911. For epoxy duplex system coating, additional inspection and administrative activities shall be as specified in CAIS 911.	-
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1805.06 EQUIPMENT- NOT USED

1805.07 PRODUCTION

1805.07.01 Fabrication

Administrative Activities:

1	-	Check that all corrugated steel structural plates used on the Contract are supplied from a manufacturer that produces the material according to CSA G401.	-
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1805.07.02 Coatings

Administrative Activities:

1	SSI	Check that all corrugated steel structural plates used on the Contract are coated in accordance with OPSS 1805.07.02.	-
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1805.07.03 Markings

Inspection Activities:

1	-	After coating of the corrugated steel structural plates, Check that temporary markings for the purposes of assembly and installation are as specified in CSA G401 and OPSS 1805.	25%
2	-	After coating of the corrugated steel structural plates, Check that permanent markings are as specified in CSA G401 and OPSS 1805. Check that markings are located on each extreme end of the structure and are located such that markings will be visible after the completion of the Work.	100%

1805.07.04 Defects, Deficiencies, and Repairs

1805.07.04.01 Inspection

Administrative Activities:

1	-	Check that the Contract completes regular inspections for any defects or deficiencies of the corrugated steel structural plate.	-
2	-	Receive and Review the repair proposal for damage to any individual element of the structural plate. If defects or deficiencies meet the conditions identified in Table 1 of OPSS 1805, the defect or deficiency can be repaired according to standard repair methods as specified and such repairs do not require proposals or Owner approval prior to repair.	-

1805.07.04.02 Documentation of Inspection and Repairs

Administrative Activities:

1	-	Check that the documentation of repairs includes the information required by OPSS 1805.07.04.02.	-
2	-	Provide the repair documentation to MTO CSA and MTO Regional Structural Section within 2 Business Days of receipt.	-

1805.07.04.02.01 Repair Proposal

Administrative Activities:

1	-	Check that the repair proposal includes all information in accordance with OPSS 1805.	-
2	-	Ensure a final copy of all Contractor submissions is sent to the MTO CSA, MTO Regional Structural Section, and MTO Quality Assurance Section.	-
3	-	Communicate to Contractor that the repair may proceed, upon approval from the MTO Regional Structural Section and MTO Quality Assurance Section.	-

1805.07.04.03 Assessment of Repair

Inspection Activities:

1	SSI	Check the completed repair work to confirm adherence with OPSS 1805 and the Contract Documents.	100%
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1805.07.05 Access for Quality Assurance

Inspection Activities:

1	-	Check that electrical power, scaffolding, and weather protection are adequately provided to facilitate safe and continuous inspection of the work	-
2	-	Check that all debris, equipment, or obstructions have been removed prior to inspection to ensure clear and safe access.	-

1805.07.06 Storage

Inspection Activities:

1	-	Check that storage of corrugated steel structural plate elements prior to shipment to the Working Area is as specified by OPSS 1805, CSA G401, the Working Drawings and supporting documentation, and as specified in the Contract Documents.	50%
2	-	For carryover contracts where corrugated steel structural plates are not yet installed, check that corrugated steel structural plates are stored in a climate-controlled facility.	50%
3	-	Confirm that temporary storage sites are appropriately prepared to prevent corrosion or deterioration of stored elements.	25%

1805.07.07 Manufacturer's Certificate of Conformance

Administrative Activities:

1	M	Receive and Review the MTO Form PH-CC-821, Manufacturer's Certificate of Conformance with the MTO Form PH-CC-701, Request to Proceed after fabrication of the corrugated steel structural plates and at least 3 Business Days prior to transportation to the Working Area.	-
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1805.07.08 Delivery

Administrative Activities:

1	M	Receive and Review MTO Form PH-CC-701, Request to Proceed, at least 3 Business Days prior to each shipment of elements to the Working Area.	-
2	M	Ensure the MTO Form PH-CC-702, Notice to Proceed, is completed and provided to the Contractor before the corrugated steel structural plates are transported to the Working Area.	-
3	-	Check that all lifting, transportation, and delivery procedures are in accordance with the Working Drawings and supporting documentation from OPSS 960. Additional administrative activities shall be as specified in CAIS 960.	-

Inspection Activities:

1	-	Inspect shipping arrangements to ensure that corrugated steel structural plates are loaded and secured properly to prevent damage or exposure to stresses not intended in the design.	25%
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1805.08 QUALITY ASSURANCE

1805.08.01 Inspection

Inspection Activities:

1	SSI	Check that the structure complies with all requirements in the Contract Documents, and that all repairs have been satisfactorily completed before acceptance.	100%
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1805.08.02 Acceptance

1805.08.02.01 General

Inspection Activities:

1	SSI	Check that the structure complies with all requirements in the Contract Documents, and that all repairs have been satisfactorily completed before acceptance.	100%
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1805.08.02.02 Coating

Inspection Activities:

1	SSI	Check that the corrugated steel structural plate coating complies with all requirements in the Contract Documents, and that all repairs have been satisfactorily completed before acceptance.	100%
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1805.08.03 Defects and Deficiencies

Inspection Activities:

1	M	Check all corrugated steel structural plates for any defects and deficiencies specified in OPSS 1805. Check that all defects and deficiencies are documented and repaired as specified in OPSS 1805 or rejected.	100%
2	M	Conduct a visual inspection and/or other measures as required, including any other testing deemed necessary to assess the effectiveness and acceptability of repairs.	100%

Administrative Activities:

1	-	Check that all defects and deficiencies meet the requirements specified in OPSS 1805	-
2	-	Check that defects and deficiencies repairable by standard methods are repaired according to the Contract Documents.	-
3	-	Check that corrugated steel structural plates with defects and deficiencies causing rejection according to the Contract Documents, are not included in the Work.	-
4	-	Reject any corrugated steel structural plates that are rejectable as specified in OPSS 1805. Notify MTO Quality Assurance Section and MTO Regional Structural Section.	-
5	-	Receive and Review any repair proposals. Notify MTO Quality Assurance Section and MTO Regional Structural Section to Determine the acceptability of the proposal.	-

WARRANT: Always with OPSS 1805, Material Specification for Corrugated Steel Structural Plate