



Concrete Precasters
Association of Ontario
Registration Program for
Water & Wastewater
Products

[January 2022]

Concrete Precasters Association of Ontario
15303 Concession Road 3-4 Finch, Ontario K0C 1K0
Tel: 866-853-0310 | Email: info@cpaontario.com



Concrete Precasters Association of Ontario Registration Program for Water & Wastewater Products

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Concrete Precasters Association of Ontario
Product Registration Program
for
Water & Wastewater Products

Foreword

This document pertains to the program of registration for precast concrete products including sewage containment tanks and related vessels for all classes and types of sewage treatment installations in the Province of Ontario. Its purpose is to assure the public and approving agencies that tanks or chambers achieving registration have been subjected to a rigorous testing and evaluation process, all for the benefit and protection of the Public and the Environment. Manufacturers of precast concrete products wishing to be included in the program must comply with the requirements of this document.

Established in 1991 as a non-profit corporation, the Concrete Precasters Association of Ontario was formed to provide a forum for manufacturers of precast concrete products to pool their knowledge, experience to bring advancement and proactive change to their industry. Many members have been producing precast concrete tanks for more than 50 years and with the input from installers, pumpers, approving and regulating agencies and the public, they have been continually improving the basic design and manufacture of precast concrete tanks.

The content of these pages reflects the commitment and dedication of the membership to ensuring public safety and protecting the environment while providing an economical yet high quality product.

This document has been prepared by the Concrete Precasters Association of Ontario, with input from the Ministry of Municipal Affairs and the Ministry of the Environment.

Comments and queries should be forwarded to:

Concrete Precasters Association of Ontario

15303 Concession Road 3-4

Finch, Ontario

K0C 1K0

Tel: 866-853-0310

Email: info@cpaontario.com

This document is also available on the CPA website

Concrete Precasters Association of Ontario
Product Registration Program
for
Water & Wastewater Products
Revised November 2021

Major Program Changes

- 1) The name of the program has been changed from ‘Certification Program’ to ‘**Registration Program**’ to accurately reflect its function and purpose.
- 2) CSA B66:16 was superseded by CSA B66:21 in October 2021. All references in this revised document are to the newer version of the standard.
- 3) All tanks must now be tested. Registration is no longer automatically awarded to short versions of vessels having similar lengths and widths.
- 4) The deadline for receipt of annual compliance reports has been changed to June 30th. Test reports must be dated within the 12-month period prior to the annual compliance deadline.

Changes to the CSA Standard in B66:21

- 1) Risers shall have a secondary safety device that can withstand 91kg of dead load.
- 2) Revision to the compartmentalization requirement
- 3) Clarification to vacuum test procedures
- 4) Clarification to top-load test procedures

Concrete Precasters Association of Ontario **Product Registration Program**

Background

In 2002, the Ontario Building Code was amended to recognize The Canadian Standards Association Standard CSA B66. This required tank manufacturers to conform to all requirements of the standard except the clause referring to ‘the certifying agency’ and the inferred requirement that the Standards Council of Canada must recognize such an agent. This exception allows manufacturers to pursue, and building officials to consider, alternative means of certification.

Much effort went into the creation of the CPA Registration Program for Water and Wastewater Products. The credibility of this program has resulted in its recognition by the Building and Development Branch of the Ministry of Municipal Affairs and Housing.

The following page ‘Branch Opinion’ clarifies that the Concrete Precasters Association of Ontario Product Registration Program may be accepted as verification of compliance with the requirements of the Ontario Building Code.

Branch Opinion

OBC Article 8.2.2.2. Tanks

OBC Article 8.2.2.2. & The Concrete Precasters Association of Ontario's Certification Program for Water and Wastewater Products

The Building and Development Branch has received requests for clarification concerning the role of the above program in verifying compliance of septic tanks with the Canadian Standards Association's standard CSA B66-00, "Prefabricated Septic Tanks and Sewage Holding Tanks" (CSA B66-00).

As of August 4, 2002, the Ontario Building Code (OBC), as amended by Ontario Regulation 220/02, requires that septic tanks installed under Article 8.2.2.2. of the OBC must conform with CSA Standard B66 "Prefabricated Septic Tanks and Sewage Holding Tanks." Under this amendment, the marking on the septic tanks does not need to include the symbol or logo of the certifying agency. While the process employed by CSA-endorsed certification bodies is currently used to verify compliance, the amendment provides building officials the ability to consider other means to verify compliance.

The Concrete Precasters Association of Ontario (CPA) has been working for several years to establish a made-in-Ontario, septic tank certification program. The CPA certification program provides a useful tool for building officials in assessing compliance with these requirements. Branch staff have followed the development of this program, and have reviewed its key elements. These elements include:

- an open and accessible central registry containing specific information about septic tanks and their manufacturers;
- an administrator who manages the program;
- core quality assurance elements including annual compliance reporting prepared by certifying engineer; requirements for product testing and quality control consistent with the CSA B66-00; and provision of product drawings and testing reports; and
- follow-up procedures for maintenance of product certification.

Information about the program is posted on the CPA website at www.cpaontario.com, and any inquiries related to its components may be obtained directly from the CPA at (613) 472-6039.



David Brezer
Manager
Code Interpretation, Registration and Training

Issued April 24, 2003

PART 1

Concrete Precasters Association of Ontario Product Registration Program for Water & Wastewater Products

Introduction

The Concrete Precasters Association of Ontario Concrete Product Registration Program has been put together to assure the quality of precast concrete products. Currently, the program is limited to precast concrete tanks intended for the treatment or containment of wastewater. The program involves the publication of and keeping current a central registry of precast concrete manufacturers including a comprehensive list of each company's certified products. The registry is a public document available to all concerned parties.

The Registration Committee

The Concrete Precasters Association Product Registration Program is overseen and directed by the 'Registration Committee':

Scott Robinson
Unit Precast Ltd.
CPA Designate

Bob Thompson
Valley Sanitation Services
Ontario Association of Sewage Industry Services

Matt Wilkinson
Wilkinson Heavy Precast Limited
CPA Standards Committee

Powers of the Registration Committee

To be effective, the Association has given the Registration Committee the following Powers:

- 1) Negotiate and liaise with regulators and stake holders
- 2) Amend the registration program at its discretion.
- 3) Direct the administrator in matters of policy.
- 4) The registration committee may request that a manufacturer perform any part of a product test on a registered product at any time. The administrator may be called upon to witness the re-test and prepare a report.
- 5) Add manufacturers and/or their products to the central registry upon confirmation from the administrator that all registration requirements have been satisfied.
- 6) Delete manufacturers and/or their products from the central registry when such action is deemed to be warranted.
- 7) Amend matrix of committee as required.
- 8) Respond to any concerned party submitting written comments or questions.
- 9) The decision of the registration committee would be final in the resolution of a dispute.

Central Registry

A central registry has been established for access by regulators, inspectors, users and designers. Public information regarding individual producers will include:

- 1) Name of the manufacturer.
- 2) Address of the head office.
- 3) Location of all production facilities.
- 4) The model number, volume and/or working capacity and external dimensions of all products listed with this program.

Product Registration

To be registered with this program, individual products must be ‘certified’ by a professional engineer as being in conformance with the requirements of CSA B66:21. Proof of conformance must be demonstrated to the satisfaction of the **Program Administrator** before a recommendation to list a product can be made to the **Registration Committee**. Once a product has been listed within the CPA program, retention of such status shall be achieved through inspection and testing of products selected at random from a manufacturer’s inventory.

The Administrator

An Administrator retained by the Association shall coordinate and manage the Registration Program. This **Administrator** will report to the **Registration Committee** and his/her duties include:

- 1) Receive from manufacturers, **product registration applications, engineering reports, annual compliance reports, product drawings, product test reports**, etc. and check them for accuracy, professionalism and conformance with the requirements of the registration program.
- 2) Recommend product for registration to the registration committee, only after being satisfied with the evaluation submitted by the **Certifying Engineer**.
- 3) Maintain and keep current the central registry.
- 4) Maintain ongoing dialogue with the committee and keep them informed of program activity.
- 5) Document and maintain comments about product quality or performance and report to the registration committee.

The current administrator of CPA's product registration program is:

Mr. Dominic Girotti, P.Eng.
1491 Cataract Road
Welland, Ontario
L3B 5N5
Tel: 905-984-0979
Email: registration@cpaontario.com

Major Elements of The Concrete Precasters Association Registration Program:

Product Testing:

1. All models and sizes of tanks intended for use with all classes of on-site sewage treatment systems shall be subjected to the appropriate test(s) described in CSA B66:21.
2. The **Certifying Engineer** shall witness the tests.
3. Random testing and product inspection shall be performed annually and a **product test report for annual compliance** shall be submitted for each product tested.

Product Test Reports:

There are two versions of product test report found at the back of this document.

The first is entitled **Product Test Report for Original Registration**. A copy of this form must be completed in full and submitted to the **Program Administrator** for each tank that you wish to register.

The **Certifying Engineer** shall inspect the set-up of the reinforcing within the mould and witness the casting of the test tank. The **Certifying Engineer** shall mark the tank at the time of casting, or otherwise assure himself that the test tank is actually the one observed in production. The tank shall be subjected to the appropriate quality and performance tests set out in CSA B66:21. The **Certifying Engineer** shall witness the testing and complete a **Product Test Report for Original Registration** for each tank tested. This form would also be used when applying to change the design of a registered tank. See page 18 for design changes that would affect registration.

The second version is entitled **Product Test Report for Annual Compliance**. This version is to be used when performing random testing of stock tanks. This random testing is to be done on tanks that have a CPA listing. This version of test report is only valid for the purpose of annual compliance and cannot be used when applying for a product's original registration.

Note to the Certifying Engineer

The **Product Test Reports** contain basic information and serve as minimal substantiation of conformance with B66. The **Certifying Engineer** is encouraged to generate a comprehensive file on the testing done on individual products and keep this information available should it be called for by regulating agencies.

Product Marking:

All tanks shall be marked in accordance with CSA B66:21 Section 11. A reproduction of the actual tank marking must be submitted with each test report.

Product Drawings:

The manufacturer may generate the product drawing. The **Certifying Engineer** must satisfy him/herself that the drawing accurately depicts the product and displays sufficient detail to prove conformance with CSA B66:21.

Each **Product Drawing** shall:

- 1) **Indicate the name of the product, its volume and working capacity in litres and the manufacturer's model number**
 - see definitions section of the CPA registration document for 'working capacity'
 - the manufacturer must designate a model number for each tank to be listed
- 2) **Be dated**
 - the date will be used to identify the drawing and must be referenced by the **Certifying Engineer** in all matters related to certification of the product
- 3) **Be fully dimensioned in millimeters and contain all detail and information necessary to prove conformance with all pertinent clauses in CSA B66:21**
 - overall external dimensions
 - concrete thickness of the walls, roof, floor, chamber divider, etc. Tapered walls and chamber dividers must be dimensioned to indicate their minimum and maximum thickness
 - the drawing must indicate whether a chamber divider is monolithic or cast separately
 - septic tanks must show the liquid depth from the floor to the working capacity liquid level
 - the difference between inlet and outlet inverts of a septic tank must be calculable
 - internal chambers or compartments must be dimensioned
 - air space volume of a septic tank must be calculable
 - all dimensions required to prove conformance with CSA B66:21 must be shown. Some examples would be: access opening dimensions, chamber divider opening sizes and locations, diameter of hatch handles, inlet and outlet device extensions
- 4) **State the assembled weight of the tank**
 - the assembled weight of the tank in kilograms exclusive of any risers that are not an integral part of the tank.

5) Details of the material and process used to ensure the water tightness of all joints between precast sections

- specify the material used i.e.: mastic sealant, rubber gasket, hydraulic grout, etc. indicate whether the tank is normally assembled at the manufacturing facility or the project site. If the tank is assembled at the project site, attach a copy of the assembly instructions as per B66:21 4.1.3.

6) State the manufacturer's recommended maximum burial depth

- recommended maximum burial must not be greater than that stated on the test report.

7) State concrete mix design parameters

- design compressive strength at 28 days (in MPa)
- percent air entrainment
- the water/cementations material ratio
- state whether the concrete mix is 'sulphate' resistant or 'non-sulphate' resistant

8) Provide details on reinforcing design

- indicate the type of reinforcing i.e.: welded wire fabric, deformed bars, fibres
- Indicate the bar spacing
- Specify the minimum concrete cover over the reinforcing

9) Specify all pipe/wall connections

- any connection point provided by the manufacturer shall have a flexible watertight seal.

10) Give the specifics of all roof openings and access covers

- attach separate sketches for the more intricate designs.
- tapered roof opening with tapered hatch, special openings that will accept a hatch and/or a riser, any type of frame and cover that is cast in or fastened to the tank.

Annual Compliance Report:

- 1) The **Certifying Engineer** shall select products at random from the manufacturer's inventory of certified products and inspect its conformance with the manufacturer's **product drawing** and CSA B66:21. The product selected shall be subjected to the testing set out in the version of CSA B66 referenced in the current Ontario Building Code. The **Certifying Engineer's** comments regarding this inspection and testing shall be part of the **annual compliance report**.
- 2) Specimens of at least 10% of a producer's certified products are to be tested annually. Example: a producer with 18 certified products must test a minimum of two products.
- 3) Concrete quality test reports in conformance with CSA B66:21 for the previous year shall be included in the **annual compliance report**.

CPA Product Registration Tag System:

- 1) An approved CPA product registration tag must be attached by the producer, in a prominent location, to all tanks listed within the CPA program and sold for use in Ontario as part of a sewage system.
- 2) The CPA product registration tag shall not be displayed in connection with any product that is not listed within the CPA registration program.
- 3) The CPA product registration tag must not be displayed on a flawed or damaged product.

The consequences for contravening any of the above could result in the offending producer's disqualification and removal from the CPA product registration program.

- 4) Once a manufacturer has one or more products listed with the CPA program, that manufacturer may purchase CPA product registration tags directly from the CPA.

For information, please contact:

Concrete Precasters Association of Ontario
15303 Concession Road 3-4
Finch, Ontario
K0C 1K0
Tel (866) 853-0310
Email: info@cpaontario.com

Concrete Precasters Association of Ontario

Product Registration Program

GENERAL INFORMATION FOR PRODUCERS

Enclosed you will find information on the Concrete Precasters Product Registration Program. This information is provided to help the producer understand the program and provide step-by-step instructions on how to acquire and maintain product registration.

Registration Program Costs and Funding

Manufacturers contract with the Engineer of their choice to act as their ‘**Certifying Engineer**’.

The **Certifying Engineer** generates the **original registration** and **annual compliance product test reports**.

The manufacturer must submit a **product drawing** containing all required information (see pages 10 - 11). The **Certifying Engineer** must seal the product drawing. The inclusion of the **Certifying Engineer’s** seal is not evidence of his or her endorsement of the design but rather that he/she confirms that the drawing is an accurate representation of manufacturing details.

Costs associated with the above are borne by the individual producer.

The cost to a producer for registration and product test report evaluations can be found on page 21.

The Concrete Precasters Association contracts with the Administrator to perform the duties prescribed. This cost is borne by the CPA and recouped through a division of expenses equitably divided between producers using the program.

The administrator logs the amount of time he spends on each registration. Individual manufacturers whose applications and submissions, due to inadequate or missing information, requiring an inordinate amount of time to process will be invoiced the extra work involved.

A Note to the Certifying Engineer

The **Program Administrator** will not recommend a product for registration unless its test report and evaluating materials demonstrate professionalism and an understanding of the programs requirements.

The CPA registration program is not the repository for the detailed account of the testing and evaluation that a product must undergo to receive registration. The producer or his **Certifying Engineer** should keep this type of documentation on file.

A Note to the User of this Document and Other Interested Parties

The merits of all precast concrete products identified or listed in the Concrete Precasters Association of Ontario Concrete Product Registration Program have been put forward and attested to by others. Verification of a products conformance with CSA B66 or any other standard is the responsibility of the **Certifying Engineer**. The CPA list of registered products is compiled from third party information and serves as the public record of products that have been successfully tested and shown to have met standards of quality in their manufacture.

For more information on the CPA Registration Program, please visit our website at www.cpaontario.com.

or contact the **Program Administrator**:

Mr. Dominic Girotti, P.Eng
Tel: 905-984-0979

DEFINITIONS

Administrator – the individual charged with the supervision and maintenance of the Registration Program.

Burial Depth – the maximum earth cover for which the tank has been designed and warranted by the manufacturer. It refers to the maximum depth of earth that can be placed above the top of the tank.

Certifying Engineer - a Professional Engineer registered in the Province of Ontario contracted by, and whose relationship is at arm's length from, the manufacturer.

Certified Product – a precast concrete tank that has been certified by a professional engineer as having met the design, manufacturing and testing criteria as laid out in the Canadian Standards Association publication B66:21.

Registered Product – a manufactured product that has met all requirements of the CPA Registration Program, and that is listed in the central registry.

CSA B66 – the latest edition of the document ‘Design material and manufacturing requirements for prefabricated septic tanks and sewage holding tanks’ published by the Canadian Standards Association (currently B66:21).

Joint – any point of contact between separately cast elements.

Product Test Report (for original registration) – the document displaying this title and that is part of this booklet. *Before completing and submitting a Product Test Report, please confirm with the **program administrator** that you are using the current version.*

Product Test Report (for annual compliance) – the document displaying this title and that is part of this booklet. *Before completing and submitting a Product Test Report, please confirm with the **program administrator** that you are using the most current version.*

Production Facility – any permanent location at which precast concrete products are produced. Manufacturers having more than one production facility must provide an **annual registration report** for each location at which listed products are produced.

Program Annual Compliance Deadline – 30th of June.

Registration – also referred to as ‘listing’ a product.

Working Capacity – the liquid volume of sewage that will remain in the septic chamber(s) when the tank is properly installed and in normal use.

PART 2

A PRODUCER'S GUIDE
to the
Concrete Precasters Association of Ontario
Registration Program

The Standards Committee of CPA has put this information package together as a guide for Precasters seeking to have their products included in the CPA Registration Program.

The CPA Registration Program, while being more technically specific and transparent to the public, is modeled on the previous MOE system of listing products (tanks) that have been certified by a professional engineer.

The Concrete Precasters Association is not a certifying agency and does not certify products. The **Program Administrator** is contracted by the CPA but working at arm's length from the association or any of its members. The **Program Administrator** receives information from the **Certifying Engineer**, tabulates it and posts it in the public forum, which is open to inspection by all interested parties. Currently, the program is limited to precast concrete septic tanks, sewage holding tanks and effluent dosing chambers.

The **Program Administrator** reserves the right to visit producer member plants and inspect products registered under this program.

The registration committee may, at its discretion, change or amend the CPA registration document and/or this producer's guide.

APPLICATION INSTRUCTIONS

HOW TO GET A PRODUCT LISTED

For each individual product that you intend to register:

- 1) **Prepare a ‘Product Drawing’.**
- 2) **Produce a test tank.** The **Certifying Engineer** should mark the test tank at the time of casting such that it can be positively identified later. The **product test report for original registration** requires the **Certifying Engineer** to confirm that the test tank was the actual specimen that he witnessed in production
- 3) **Test the concrete that was used** in the casting of the test tank and provide documentation showing:
 - compressive strength @ 28 days
 - percent air entrainment
 - water cement ratio
- 4) **Perform test procedures** as outlined in CSA Standard B66:21 sections 10.1, 10.2.3 or 10.2.4, 10.3, and 10.4
- 5) **The Certifying Engineer shall:**
 - **submit your ‘Product Drawing’** bearing the engineers stamp attesting that the drawing is representative of the product that was teste
 - **submit a completed copy of the ‘Product Test Report For Original Registration’** found at the back of this booklet
 - **submit an exact rendition of the marking as per CSA B66:21 11.2**, that will be displayed on the tank
- 6) **Complete and attach the following documents to your submission**
 - application for registration
 - a remittance calculation
 - release of documents form

Note: A manufacturer with more than one production site must register and certify production at each site separately.

Send all the above along with your Product Registration Application and Engineers Report to:

Mr. Dominic Girotti, P.Eng.
1491 Cataract Road
Welland, Ontario
L3B 5N5
Tel: 905-984-0979

At the same time, please send:

- a copy of your remittance calculations and
- a cheque for payment in full of your registration fee and all test report evaluation charges to:

Concrete Precasters Association of Ontario
15303 Concession Road 3-4
Finch, Ontario
K0C 1K0

HOW TO KEEP YOUR CPA PRODUCT REGISTRATION CURRENT

- 1) Your **Certifying Engineer** must select product(s) at random from your inventory of certified products, inspect the product to confirm its design, material and manufacturing requirements are in conformance with CSA B21, and test the product for strength and water tightness.
- 2) Submit a **product test report for annual compliance** for each of the products selected and tested. Test reports must be dated within the 12-month period prior to the **annual compliance** deadline.
- 3) Submit a **product drawing** for each of the products selected and tested.
- 4) Submit concrete quality/strength test reports in accordance with CSA B66:21 6.2.1 . Test reports must be dated within the 12-month period prior to the **annual compliance** deadline.
- 5) Submit an exact rendition of the marking as per CSA B66:21 11.2, which will be displayed on each product.
- 6) Send all the above to the **Program Administrator**.
- 7) Complete the remittance calculation form and send payment to the CPA office.

Note: The number of tanks a manufacturer must test for an annual compliance report is dependent on the number of different models that producer has listed with CPA.

The number of different tank models you have listed with the CPA <u>Registration Program</u>	Minimum number of tanks to test for your annual <u>Compliance Report</u>
1 – 9	One
10 – 19	Two
20 – 29	Three
30 – 39	Four
40 – 49	Five

The **annual compliance report** must be received by the administrator each year prior to the annual 30 June deadline. Failure to provide an acceptable **annual compliance report** each year by June 30 will result in the producer and his/her her products being de-listed.

To get re-listed the producer must, within one year submit:

- an acceptable **annual compliance report**
- standard fees as per the **remittance calculation** form
- an additional \$500 late compliance fee

Producers de-listed from the CPA Registration Program for more than one year that wish to reapply for CPA Registration must submit an original registration and have all products re-evaluated.

Design Changes Affecting Registration

A product's listing under this program is valid only if its design is consistent with the **product drawing** and **product test report** submitted by the manufacturer at the time of registration.

The following are examples of design changes that would void the listing of a product:

- 1) Any change to a wall, floor, roof, partition or chamber divider that would affect the tank's ability to resist internal or external stresses.
- 2) Any increase in the cross-sectional area of an access opening.
- 3) The addition of any opening that penetrates the envelope of the structure that would affect water tightness or the tank's ability to resist internal or external stresses.

APPLICATION FOR REGISTRATION

Concrete Precasters Association of Ontario Product Registration Program for Water and Wastewater Products

Company Name _____

Address of
Production Site _____

Contact Person _____ **Tel#** ____ - ____

Fax# ____ - ____

Email _____

Certifying Engineer _____ **Tel#** ____ - ____

Fax# ____ - ____

Email _____

By registering your company with the CPA Product Registration Program, you are agreeing to accept and abide by all of the terms and requirements of the program as they are found in the document entitled 'Concrete Precasters Association of Ontario Registration Program for Water and Wastewater Products'.

Signature: _____

I have the authority to bind the corporation

Date: _____

Note: Manufacturers that produce listed products at more than one location must register each site separately.

- attach a signed copy of the **Release of Documents** form when applying for registration.
- remit your registration fee and all test report evaluation charges at the time of registration.
- make cheques payable to Concrete Precasters Association of Ontario.

- 1) **Submit payment directly to the CPA office.**
- 2) **Submit application to Mr. Dominic Girotti, P.Eng., Program Administrator.**



CPA Registration Program Costs

	<u>CPA Members</u>	<u>Non-Members</u>
<u>1) Annual Registration Fee (per plant)</u>	<input type="checkbox"/> \$146.90	<input type="checkbox"/> \$339.00
<u>2) Processing Charges to Evaluate Products</u>		
The number of products to be evaluated for which product drawings and test reports are attached: _____		
	# products x \$84.75 _____	# products x \$113.00 _____
	TOTAL REMITTED	\$ _____

RELEASE OF DOCUMENTS

The policy of the Concrete Precasters Association of Ontario Product Registration Program will be to direct inquiries about specific product designs to the manufacturer. In the normal course of events, details of this nature will be released only with the manufacturer's permission. However, the CPA reserves the right to release documents, drawings or any other material on file should it be necessary to protect the interest of the CPA or the integrity of the Registration Program.

*In circumstances where CPA is compelled to release information and/or documents as aforementioned, the undersigned shall hold CPA, the **Program Administrator** and the Registration Committee, harmless of whatever propriety interest we may have in any part of our registration documentation.*

_____ Company	_____ Signed authority to bind the corporation	_____ Date
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Make your cheque payable to and mail to: **Concrete Precasters Association of Ontario**
G.S.T. No. R139696967
15303 Concession Road 3-4
Finch, Ontario K0C 1K0