

**COMPLETE
ENGINEERING.
UNPARALLELED
PERFORMANCE.**



**INTERNATIONAL
EROSION CONTROL
SYSTEMS**

WWW.IECS.COM



Offering a rare combination of complete engineering, manufacturing, and direct distribution of our product line is what distinguishes IECS as an industry leader in the design-build civil construction market.

International Erosion Control Systems Inc. has been providing solutions for storm water management, erosion control issues and pre-cast structures since 1984. Our Cable Concrete® erosion mattress system is unparalleled in performance and backed by extensive engineering and testing.

IECS takes on unique erosion control and pre-cast challenges in all areas of the world with commitment to quality products and service at the forefront. We are always looking to improve our product line, and build upon our success. With more than 3,600 installations worldwide and over 16.5 million square feet of Cable Concrete® on the ground IECS is an industry leader in the design-build industry.



ARTICULATED CONCRETE BLOCK SYSTEM

Engineered as an alternative to loose rock rip rap, Cable Concrete® is an articulated concrete block revetment system, developed by International Erosion Control Systems, to control various types of erosion due to water, wind, or vehicular traffic.



WHAT CAN YOU EXPECT FROM IECS?

Innovative thinking and manufacturing of customized products specific to every site's unique challenges. IECS is a multi-tool in an engineer's toolbox during the design phase of any given project.

- Over 30 years of experience
- Family owned and operated
- Responsive customer service with the flexibility to meet your project needs
- Customized manufacturing abilities to fit the requirements of any project
- Quick turnaround time and large inventory of all product lines
- Design/build capabilities
- Turnkey solutions for ACB design; from detailed design review; on-site assistance, and final installation site review – FREE OF CHARGE

AVAILABLE PRODUCTS

International Erosion Control Systems Inc. has a complete line of solutions for storm water management, erosion control issues and pre-cast structures.



CABLE CONCRETE



SPECIALTY PRECAST








PRECAST HEADWALLS



LG RETAINING SYSTEMS

FEATURES + BENEFITS

 <p>Up to 40% open area</p> <p>Provides a complete vegetation regrowth habitat, and enhances aesthetics while providing permeability and water treatment measures.</p>	 <p>Cables cast in both directions into wet cast air entrained concrete</p> <p>Provides increased block-to-block connection strength and allows for easy on-site modifications.</p>	 <p>Completely stainless steel cable/clamping system</p> <p>Built to withstand harsh environments and provide superior corrosion resistance to salt and uv degradation.</p>	 <p>Pre-attached site specific non-woven geotextile</p> <p>Makes for quick and easy on-site installation.</p>	 <p>Cable loops on all 4 sides</p> <p>Delivers quick, secure and safe mat-to-mat connection.</p>
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SEE THE DIFFERENCE WITH CABLE CONCRETE

Cable Concrete is the stable choice when it comes to erosion control design requirements. This prevailing technology is an engineered system designed to be superior to loose rock.



REDUCE INCOMING DELIVERIES BY UP TO 18:1

Reduce wear and tear on your local roads and greatly reduce scheduling delays (truck slides).

40% OPEN AREA FOR VEGETATION REGROWTH



Provides access, land usability and ability to perform cosmetic maintenance.



LARGE ANCHORED & FULLY INTERCONNECTED SYSTEM

Increases stability, performance and eliminates movement compared to loose non-connected systems or loose rock which can be displaced.



APPLICATIONS

Unlike other products, Cable Concrete can provide a wide range of solutions to a variety of applications such as:

- Riverbank Protection
- Channel Lining
- Lagoon Protection
- Access Roads
- Culvert Inlet/Outlet Protection
- Pond Lining
- Low Water Crossings
- Overflow/Weirs
- Spillways
- Pipeline Protection
- Dam Overflow/Intakes
- Boat Ramps

“We have been very satisfied with the overall performance of the ‘Cable Concrete’ product for our erosion control needs, and will continue to specify this product where it can provide an ideal solution.”

– Project Engineer, Amec Foster Wheeler



COUGAR CREEK BANK STABILIZATION

CANMORE, AB



After the devastating 2013 flood suffered in Alberta, Canada, remedial works were conducted to rebuild the Cougar Creek Channel. IECS extensively engineered Cable Concrete to the specific design dimensions of the new channel and the hydraulics pertaining to the Cougar Creek watershed. Cable Concrete was then implemented to line the banks to protect the channel from further erosion should another flood occur.

CABLE CONCRETE® SPECIFICATIONS

SYSTEM	MINIMUM BLOCK WEIGHT		MINIMUM BLOCK HEIGHT		OPEN AREA %
	kg/sm	lbs/sf	mm	inches	
CC G2	122.22-136.89	25-28	80-88	3 1/8- 3 7/16	40
CC 35	180.65-195.30	37-40	114.3-127.0	4 1/2-5	20
CC 45	229.47-253.88	47-52	139.7-152.4	5 1/2-6	20
CC 70	351.53-380.83	72-78	215.9-228.6	8 1/2-9	20
CC 90	439.12-463.83	90 -95	215.9-228.6	8 ½ - 9	20

LEED CERTIFIED: Cable Concrete is not only a great solution for soil erosion and habitat restoration but also for designing LEED certified projects. By using Cable Concrete in your design, your project can qualify for the following LEED credits:

- CREDITS**
- 5.1 Protect or Restore Habitat
 - 5.2 Maximize Open Spaces
 - 6.1 Storm Design Quantity Control
 - 6.2 Storm Design Quality

RESEARCH & DEVELOPMENT

IECS is committed to product excellence. As a leader in the ACB industry, we have done extensive engineering, research and product testing to ensure you get the very best in performance. Here are some of the R&D initiatives we have taken part in:

- Detailed hydraulic analysis program developed from university testing conforming to ASTM D7276-16, D7277-16 & FHWA-RD-89-199
- Block wave impact testing compared to analytical results generated by the "Anamos Stability Revetment Program" developed by Delft Hydraulics
- Wave Impact testing in accordance with Coastal Engineering Manual, US Army Corps of Engineers EM 1110-1100
- Conforms to HEC 23 & NCMA TEK 11 design guideline manuals for ACB Systems

HERE'S WHAT SOME OF OUR CUSTOMERS ARE SAYING

Our clients and ourselves have been satisfied with not only the performance of the product in application, but also with the level of service IECS has provided during the planning, design, and construction phases of these projects."

– Project Manager, Worley Parsons

We support International Erosion Control Systems' Cable Concrete product. We have successfully used this product on previous projects and would like to have the option of specifying it on future projects."

– Water Resource Engineer, Stantec

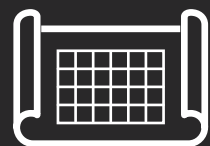


IECS continues to set the bar in the world of specialty precast challenges, offering segmental systems for most structural designs.

Pre-casting the typical “cast-in-place” specification is a solution that can save the construction world time and money by greatly reducing shoring, dewatering and weather variables.



FEATURES + BENEFITS



Design build/ professional structural engineering

Offers engineers and contractors precast design alternatives.



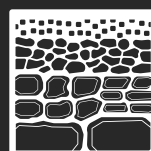
Manufactured to suit contractors lifting capabilities

Saves contractor additional costs of crane rental.



Greatly improves construction scheduling

Eliminates weather variables and assists contractors to meet strict deadlines.



Reduce sediment control measures

Dramatically decreases work time spent in sensitive areas.

SPECIALTY ITEMS AVAILABLE

- Chambers
- Footings
- Abutments
- Piers
- Deck & Approach slabs
- Weirs
- Wing walls
- Planter boxes
- Pipe weights
- Inlet/outlet Structures

OTHER SPECIALTY ITEMS AVAILABLE UPON REQUEST

CHANGE HOW YOU THINK ABOUT PRECAST

Continuing to reinvent what precast can be, IECS welcomes all challenges, big or small. We have shown time and again the ability to think “outside the box” and manufacture to site-specific needs and obstacles.



EASIER INSTALL WITH SEGMENTAL DESIGN/BUILD

Save on shoring, dewatering, and bypass pumping.



REDUCE CONSTRUCTION TIME

Decrease the time for road closures & traffic congestion.



IECS provided competitive pricing and excellent customer service.

All pieces were delivered on time.”

– Chief Estimator, Civil Division Eastern Canada, Ellis Don Corporation

CASE STUDY

GO TRANSIT – LANSDOWNE METROLINX BRIDGE REHABILITATION TORONTO, ON

For a rehabilitation project of the Lansdowne Metrolinx Bridge for GO Transit, IECS manufactured custom Precast Ballast Walls and Distribution Slabs. These slabs included over one hundred and thirty 25mm dowels fitted into adjoining 60mm pockets for the general contractor EllisDon. Due to the high demand of this rail line, an extremely tight schedule was in order and IECS delivered precision work ensuring no delays during installation.





RETAINING SYSTEM

LG Retaining Systems is the reliable choice for stable retaining walls due to their large size and weight. Manufactured with a reinforced locking curb for a solid fit and high aesthetic finish, the LG Retaining System is quick and easy to install, saving time and money.



PRECAST HEADWALLS

International Erosion Control Systems is a pioneer in the Precast Headwall market. In 1996, we introduced the first ever OPSD 804.04 style Precast headwall and have since continued to develop different systems to construct this unit to accommodate customers' needs on a per job basis.



FEATURES + BENEFITS



Minimal site preparation required

Allows you to start placing blocks quicker.



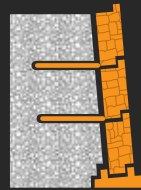
Quick and easy installation with the use of hydraulic equipment

Lessens the required amount of man power and labour.



High aesthetic finish

Ideal for residential, commercial, and civil projects.



Built in 5° lean back for added stability

No need for ground shaping or poured footings.

FEATURES + BENEFITS



Manufactured to conform to OPSD

Ensures a high quality product, built to industry standards.



Modified headwalls built to project specs

Increase your profitability while eliminating subcontracting.



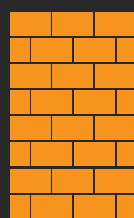
Fast turnaround time on precast headwalls

Get your product on-site when you need it.



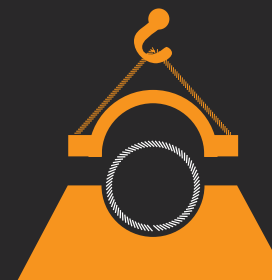
40% LARGER BLOCKS THAN COMPETITION ON AVG.

Less blocks and time are required to complete an installation.



GRID TIE BACK TECHNOLOGY

Makes for a more stable install with less materials.



'DOG HOUSE' STYLE COVER SYSTEM

Allows contractor to work to/or from headwall while installing pipe for easy installation.



SEGMENTAL DESIGN

Available to accommodate any site access issues.

AVAILABLE MODELS

OPSD 804.040*

4 piece stackable precast headwall with Dog House Pipe Cover.

9 piece segmental precast headwall ideal for severe slopes, hard to reach areas, confined space and large or heavy structures.

OPSD 804.030*

1 piece unit without wing walls.

OPSD 804.020*

2 piece system without wings walls.

*All IECS HW's styles are available in all sizes

OUR GLOBAL PRESENCE

International Erosion Control Systems Inc. has been servicing the Global erosion sediment control (ESC) markets with local presence available. We reinvest in local economies by creating local manufacturing jobs.

HEAD OFFICE

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Rodney, ON N0L 2C0

ALBERTA OFFICE

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Calgary, AB TC2 3G3

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Humboldt, SK S0K 2A0

USA OFFICE

3030 N. Rocky Point Drive, Suite 150
Tampa, Florida 33607

AFRICA OFFICE

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Victoria Island, Lagos



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