Before

After

CABLE CONCRETE®

Articulated Concrete Block System

- Engineered erosion solutions
- Low installation cost
- Maximizes vegetation regrowth
- Pre-attached filter cloth ensures consistent placement
- Quick and efficient delivery
- Cable Concrete® manufactured and distributed throughout Canada and abroad

For more information, contact:

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Construction Materials

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IECS
INTERNATIONAL EROSION CONTROL SYSTEMS INC.
Ph: 1-800-821-7462 • Fx: 1-866-496-1990
www.iecs.com

What is it?

Cable Concrete® is one of the most proven, fully engineered forms of erosion control available. This system of integrating flexible stainless steel revetment cables within high strength concrete permits unparalleled erosion protection.

A Standard Cable Concrete® mat covers an area of 2.44m x 4.88m (8 ft. x 16 ft.) and is available in various weights; 25, 35, 45 and 70 lb/sq. ft. This allows you to economically meet the requirements of your particular project.

Key Features:

- Fully engineered, ensure the proper factor of safety for your designs
- Easy to install with minimal site preparation above ground or under water
- Open area ranging from 20-40% promotes permeability and maximizes vegetation regrowth
- Available with pre-attached non-woven geotextile filter cloth
- Freeze thaw resistance ensures the structural integrity of the system
- Trapezoidal block shape allows for articulation ranging from 20˚- 60˚ depending on the block size
- Flexible, versatile and stable – mat sizes can be customized to suit and cut in any direction
- Clamp mats together on all four sides to create one uniform system

Potential LEED Credits:

- SS Credit 6.1 Stormwater Design: Quantity Control
- SS Credit 6.2 Stormwater Design: Quality Control
- SS Credit 5.1 Site Development and Restore Habitat
- MR Credit 5.1 Regional Materials

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

Research and Design

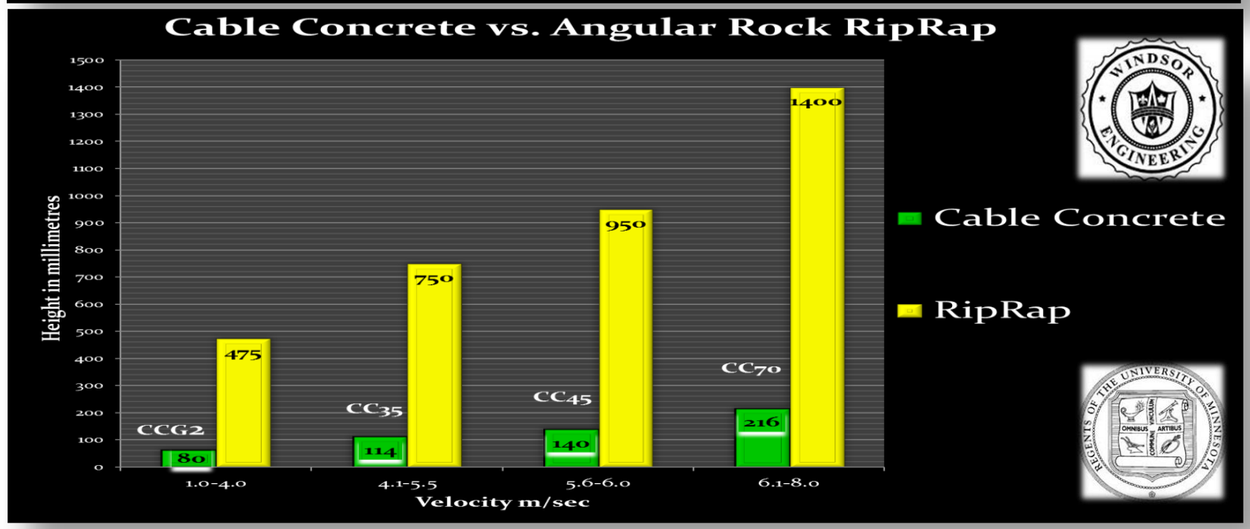
Since the mid 1980's IECS has partaken in a wide variety of industry leading engineering analysis ensuring the uppermost level of performance and stability of Cable Concrete®, encompassing the following;

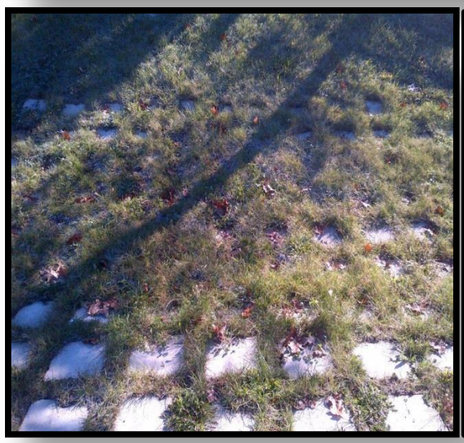
- **"Minimizing Embankment Damage During Overtopping Flow", Federal Highway Administration Report No. FHWA-RD-88-181 (November, 1988)**
- **"Hydraulic Stability of Articulated Concrete Block Revetment Systems During Overtopping Flow", Federal Highway Administration Report No. FHWA-RD-89-199 (November 1989)**
- **Wave impact testing and measurement in accordance with "Coastal Engineering Manual", U.S. Army Corps of Engineers Manual EM 1110-1100 (as amended up to August, 2008)**
- **Block wave impact testing was also compared to analytical results generated by the Anamos Stability of Block Revetment program developed by Delft Hydraulics (The Netherlands)**
- **Conforms to HEC-23 & NCMA - TEK-11 design guidelines for "Articulated Concrete Block Systems"**

U.S. Department of Transportation Federal Highway Administration

US Army Corps of Engineers®

Cable Concrete® offers a detailed hydraulic analysis software program and design manuals to assist in designating the appropriate block selection while ensuring the precise factor of safety is met for your specific project parameters.



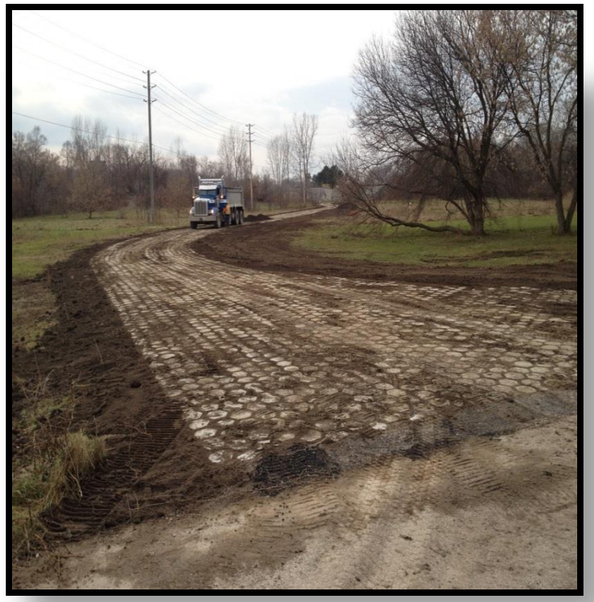


Industry Leading Performance

IECS has carried out extensive research into wave and open channel flow conditions on our product Cable Concrete® at the Colorado State University. Cable Concrete® blocks were flume tested in a 100 foot long by 4 foot wide test section.

wl | delft hydraulics

Before



After

CABLE CONCRETE® G2

Articulated Concrete Block System

- Low installation cost
- Cable Concrete G2 manufactured and distributed throughout Canada and abroad.
- More economical than hand placed systems
- Quick and efficient delivery

For more information, contact:

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Ph: 1-800-821-7462 • Fx: 1-866-496-1990
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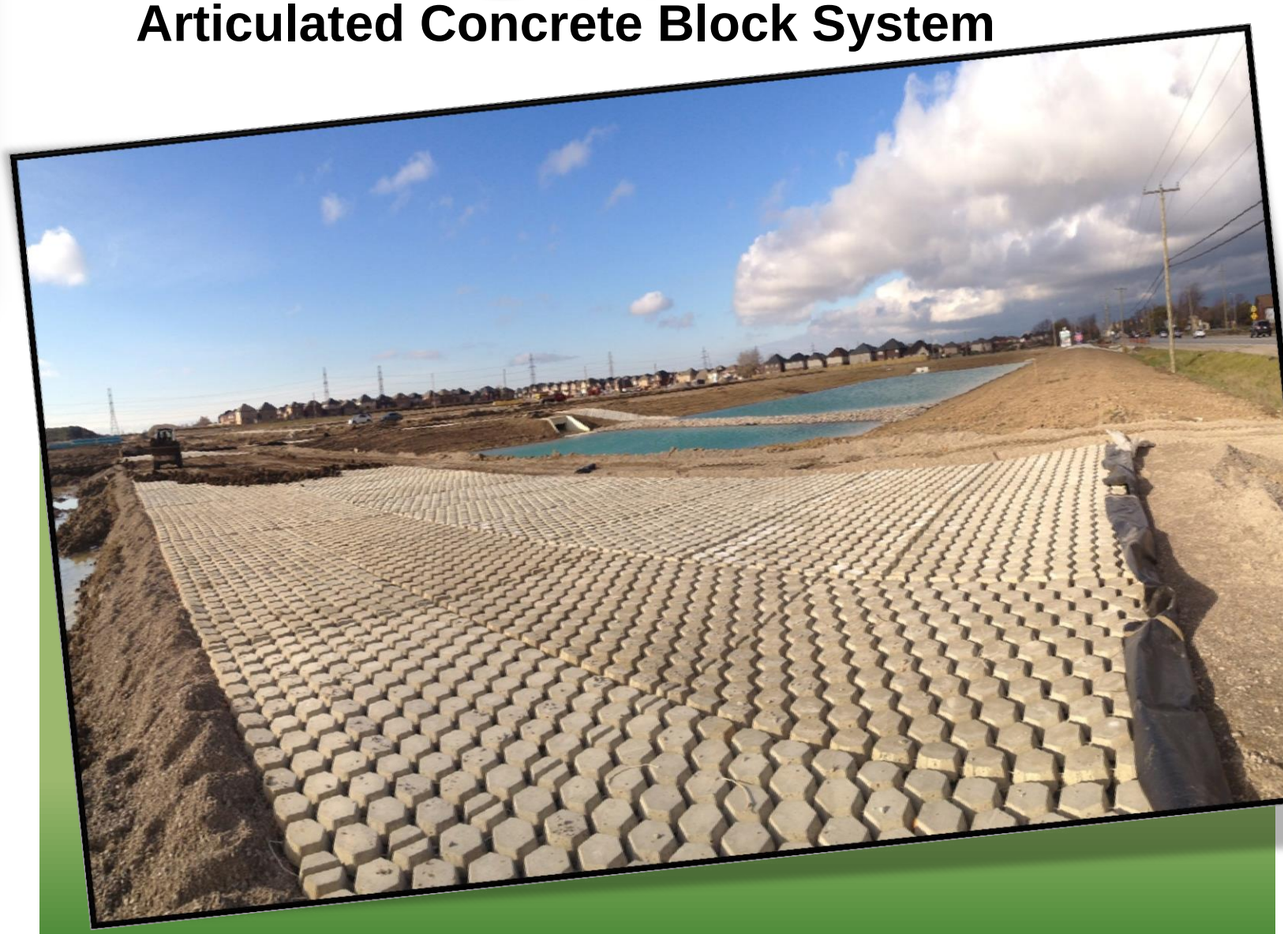


CABLE® CONCRETE G2

What is it?

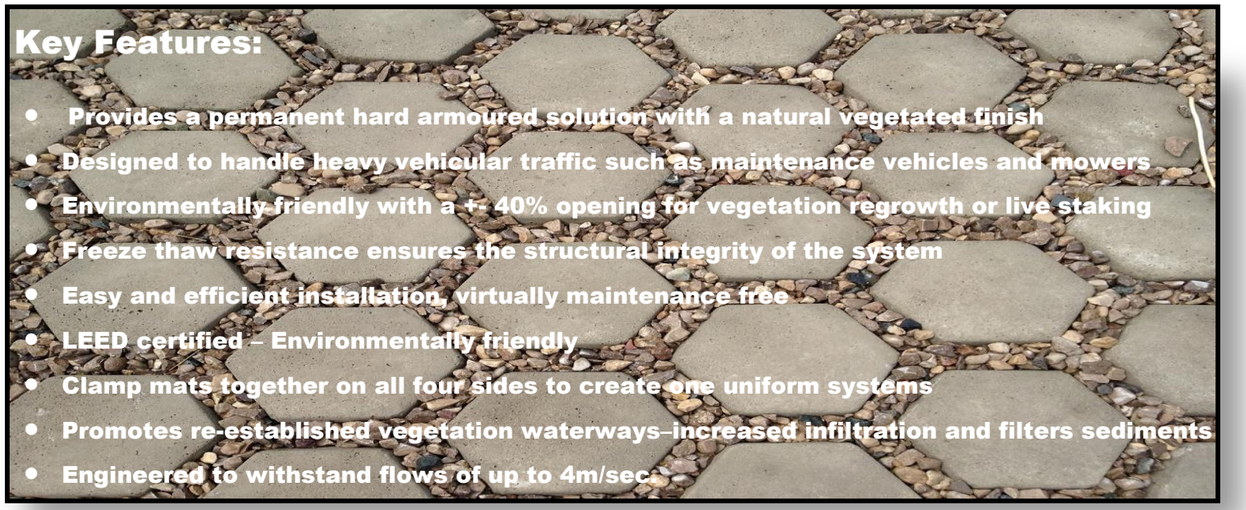
Cable Concrete G2 is an articulated concrete block revetment system, developed by International Erosion Control Systems Inc. Specifically designed for permeable paving applications such as vehicular access roads, pedestrian pathways, low flow and gentle slope applications to control various types of erosion due to water, wind, and vehicle traffic.

The standard mats are 2.44m x 6.1m long (8'x20') placed side by side to provide a protective system. The mats can easily be cut at provided cut lines to obtain lengths of 2, 3 and 4 metres when required.

The mats consist of concrete blocks interlocked by polyester or stainless steel cables, which are poured through each block in both directions. Spacing between blocks provide ± 40% opening for vegetation or granular backfill. The blocks typically have 190.5mm (7.5") hexagonal top faces and 228.6mm (9.0") hexagonal bottoms.

Potential LEED Credits:

- SS Credit 6.1 Stormwater Design: Quantity Control
- SS Credit 6.2 Stormwater Design: Quality Control
- SS Credit 5.1 Site Development and Restore Habitat
- MR Credit 5.1 Regional Materials



Key Features:

- Provides a permanent hard armoured solution with a natural vegetated finish
- Designed to handle heavy vehicular traffic such as maintenance vehicles and mowers
- Environmentally friendly with a +- 40% opening for vegetation regrowth or live staking
- Freeze thaw resistance ensures the structural integrity of the system
- Easy and efficient installation, virtually maintenance free
- LEED certified – Environmentally friendly
- Clamp mats together on all four sides to create one uniform systems
- Promotes re-established vegetation waterways–increased infiltration and filters sediments
- Engineered to withstand flows of up to 4m/sec.

CABLE® CONCRETE G2

Cable Concrete G2 Specifications

SYSTEM	Minimum BLOCK WEIGHT		Minimum BLOCK HEIGHT		Open Area
	kg/sm	*lbs/sf*	*mm*	*inches*	*Percent*
CC G2	122.22-136.89	25-28	80-88	3 1/8"-3 7/16"	40%

Industry Leading Performance

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