

## Product Evaluation

### RE: Review of Cable Concrete (CC40A)

#### **PRODUCT**

Cable Concrete Articulated Concrete Block Revetment System is manufactured by IECS Environmental INC located in Rodney, Ontario and it is supplied by its branch in Calgary.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

Cable Concrete (CC40A) is an Articulated Concrete Block (ACB) Revetment System which controls various types of erosion due to water, wind, or vehicular traffic. Cable Concrete CC40A access mats consist of precast concrete blocks connected by cables allowing each individual block to be flexible and form the terrain of the ground. Product web link: <http://iecs.com/>

##### **DESCRIPTION:**

Cable Concrete (CC40A) system is made up of 2.44m x 4.88m long (8'x16') mats placed side by side and clamped together to provide one homogeneous erosion protection system. Smaller mats are available as required. The mats consist of concrete blocks interlocked by integrally woven stainless-steel cables, which are poured within each block. Geotextile fabric is attached to the base of each concrete mat. The blocks typically have 292.10mm (11.5") square top faces and 393.70mm (15.5") square bottoms. The system has a 10% Open Area. CC40A is available in various thickness varying for 95 mm to 108mm (3.75" to 4.25").

##### **POTENTIAL USAGE:**

CC40A is an articulated concrete block revetment system, developed to control various types of erosion due to water, wind, and or vehicular traffic. Added herringbone traction grooves provide added grip in access application such as boat ramps and stormwater access roads.

##### **STANDARDS:**

ASTM D6884-03 (10) Installation of ACB Revetment Systems  
ASTM D6684 - 04 (Reapproved 2010) - Materials and Manufacture of Articulating Concrete Block (ACB) Revetment Systems

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has some experience with ACB Revetment System.

##### **APPLICATION STANDARDS:**

Alberta Transportation does not have a standard for Articulated Concrete Block (ACB) Revetment System.

##### **RECOMMENDATIONS:**

Cable Concrete CC40A be listed as a potential Product under Alberta Transportation Products List, - Erosion and Sediment Control Systems – Miscellaneous Erosion and Sediment Control – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

##### **RESTRICTIONS ON USE:**

Caveat: Appropriate thickness of the Block for specific site shall be determined by a Professional Engineer (registration with APEGA).



Product ID: 8134-3-4  
Initiation Date: July 14, 2022  
Revision Date: February 1, 2023  
Expiry Date: January 2026

**TRIAL PROJECTS**

Rishi Adhikari  
cc New Products Evaluation Group – Roger Skirrow