



IECS ENVIRONMENTAL INC.

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Cable Concrete CC40A Specifications

A. DESCRIPTION

B. Cable Concrete® is an articulated concrete block revetment system, developed by IECS Group, to control various types of erosion due to water, wind, or vehicular traffic. This 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 Percentage.

SYSTEM	Minimum BLOCK WEIGHT		Minimum BLOCK HEIGHT	
	<i>kg/sm</i>	<i>lbs/sf</i>	<i>mm</i>	<i>inches</i>
CC40A	185.55-205.05	38-42	95-108	3 3/4" - 4 1/4"

C. CONCRETE

The minimum required concrete strength shall be 25 MPA @ 28 days. The concrete mix used shall be an approved mix design with 5-8 % air entrainment. Customize/specialty concrete mix designs available upon request.

D. CABLES

The cables shall be made of type 302/304 stainless steel aircraft cable, 1x19 construction. Cables shall be integral (poured into) to the concrete block and shall traverse through each block in both longitudinal and lateral directions, providing a flexible interlocked system.

System	Revetment Cable	Lengthwise		Widthwise	
		mm	inches	mm	inches
CC40A	Stainless Steel	4	5/32"	4	5/32"

E. INSTALLATION

Installation equipment shall have a lifting capacity, capable of completely lifting the concrete mat and the lifting bar during unloading, stockpiling and installing etc.

Prepared areas shall be graded to a smooth plane finish. Any roots, debris and stones must be removed and regraded. Specified geotextile to be placed according to manufacturing recommendations. The mats shall be laid on the geotextile in such a manner to produce a smooth plane surface. Intimate contact with the subsurface is critical to the systems performance in the field.

The gap between each mat shall not be greater than 2", preferably 1" or it must be closed using a cement mixture.

It is recommended that after the installation of the mat system, that it be covered with desired backfill. If vegetation is required, the mat system shall be backfilled and seeded. This will allow moisture to traverse back and forth from sub grade to vegetation. Vegetation will lend support and an even grade for maintenance vehicles (mowers) to traverse over it. Any surface application should not be placed prior to the inspection of the system.

F. PAYMENT

Payment shall be by the square metre and shall include Cable Concrete 40A mats.

Lifting bar rental and delivery are separate cost items.

Upgrades or additional items shall be considered additional costs.