



## International Erosion Control Systems Inc.

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## Specifications

### A. DESCRIPTION

LG Retaining System is a concrete retaining wall system made up of footings and top blocks manufactured with a reinforced locking curb for a solid fit. Other sizes are available as required.

A minimum ½" (10mm) reinforcement rod is cast into the base of each footing. Each top block has 25% transverse duct openings. A geotextile placed behind the retaining wall permits hydrostatic pressure to uniformly drain.

Block Type	Dimensions	Approximate Weight
Footing	2m lg x 1m w x 200mm h	2000 lbs/907 kg
Top Block	2m lg x 1/2m w x 1m h	4000 lbs/1814 kg
Split Top Block	1m lg x 1/2m w x 1m h	2000 lbs/907 kg
¾ Top Block	1 1/2m lg x 1/2m w x 1m h	3000 lbs/1360 kg
Half Top High Block	2m lg x 1/2m w x 1/2m h	2000 lbs/907 kg
Corner Block	1m lg x 1m w x 1m h	5000 lbs/2268 kg

### B. 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.

### C. GEOTEXTILE

The standard geotextile material recommended is a 6–8 oz.equivalent needle punched non-woven fabric. Geotextile is placed directly behind the retaining wall system. If overlap occurs-minimum of two (2) feet.

### D. CLAMPS

Stainless steel cable clamps shall be used to connect blocks and connect required anchors.

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## **E. ANCHORING**

LG Retaining System is designed to withstand certain earth forces before anchoring is required. This information is founded by engineered rapid drawdown testing. The data shows limits of the retaining wall system based on unanchored and anchored blocks.

Anchoring LG Retaining System blocks offers additional safety to the retaining wall system. If an application arises in which maximum limits of the retaining wall system are greater, then anchoring becomes an item to be specified by the governing project engineer.

## **F. INSTALLATION**

Compacted engineered fill shall be placed under the footings. It is recommended that the footings be placed a minimum of 1/3 of its height below the bed. The toe of the retaining wall system shall be entrenched and buried, protecting from undermining. Approval of compacted engineered fill and sub base to be approved by others.

It is recommended that drainable backfill approved by engineer be used behind the retaining wall system. Backfill application should not be placed prior to the inspection of recommended anchoring.

## **G. PAYMENT**

Payment shall be by the unit price.

Geotextile, stainless steel clamps, anchors, and delivery are separate cost items.

Upgrades or additional items shall be considered additional costs.