



Designation: D6884 – 26

Standard Practice for Installation of Articulating Concrete Block (ACB) Revetment Systems¹

This standard is issued under the fixed designation D6884; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 The purpose of this standard is to provide recommended guidelines for the proper installation and inspection of articulating concrete block (ACB) revetment systems.

1.2 This practice offers a set of instructions for performing one or more specific operations. This document cannot replace education or experience and should be used in conjunction with professional judgment. Not all aspects of this practice may be applicable in all circumstances. This ASTM standard is not intended to represent or replace standard of care by which adequacy of a given professional service must be judged, nor should this document be applied without considerations of a project's many unique aspects. The word "standard" in the title of this document means only that the document has been approved through the ASTM consensus process.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard. Use of units other than inch-pound shall not be considered non-conformance with this practice as long as the selected parameters are met as a minimum.

1.3.1 The gravitational system of inch-pound units is used when dealing with inch-pound units. In the system, the pound (lbf) represents a unit of force (weight), while the units for mass is slugs. The slug unit is not given, unless dynamic ($F = ma$) calculations are involved.

1.4 *This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

¹ This practice is under the jurisdiction of ASTM Committee D18 on Soil and Rock and is the direct responsibility of Subcommittee D18.25 on Erosion and Sediment Control Technology.

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1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D653 Terminology Relating to Soil, Rock, and Contained Fluids

D698 Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))

3. Terminology

3.1 For definitions of common technical terms in this standard, refer to Terminology D653.

4. Summary of Practice

4.1 The proper installation of articulated concrete block revetment systems is essential to the adequate functioning and performance of the system during the design hydrologic event. This standard provides guidelines for maximizing the correspondence between the design intent and the actual field-finished conditions of the project.

4.2 This standard addresses the preparation of the subgrade, geotextile or filter layer placement, block system placement, backfilling and finishing, and inspection.

5. Significance and Use

5.1 An articulating concrete block system is comprised of a matrix of individual concrete blocks placed together to form an erosion-resistant system with specific hydraulic performance characteristics. These systems in practice are commonly referred to as ACB revetment systems. The system includes a

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.