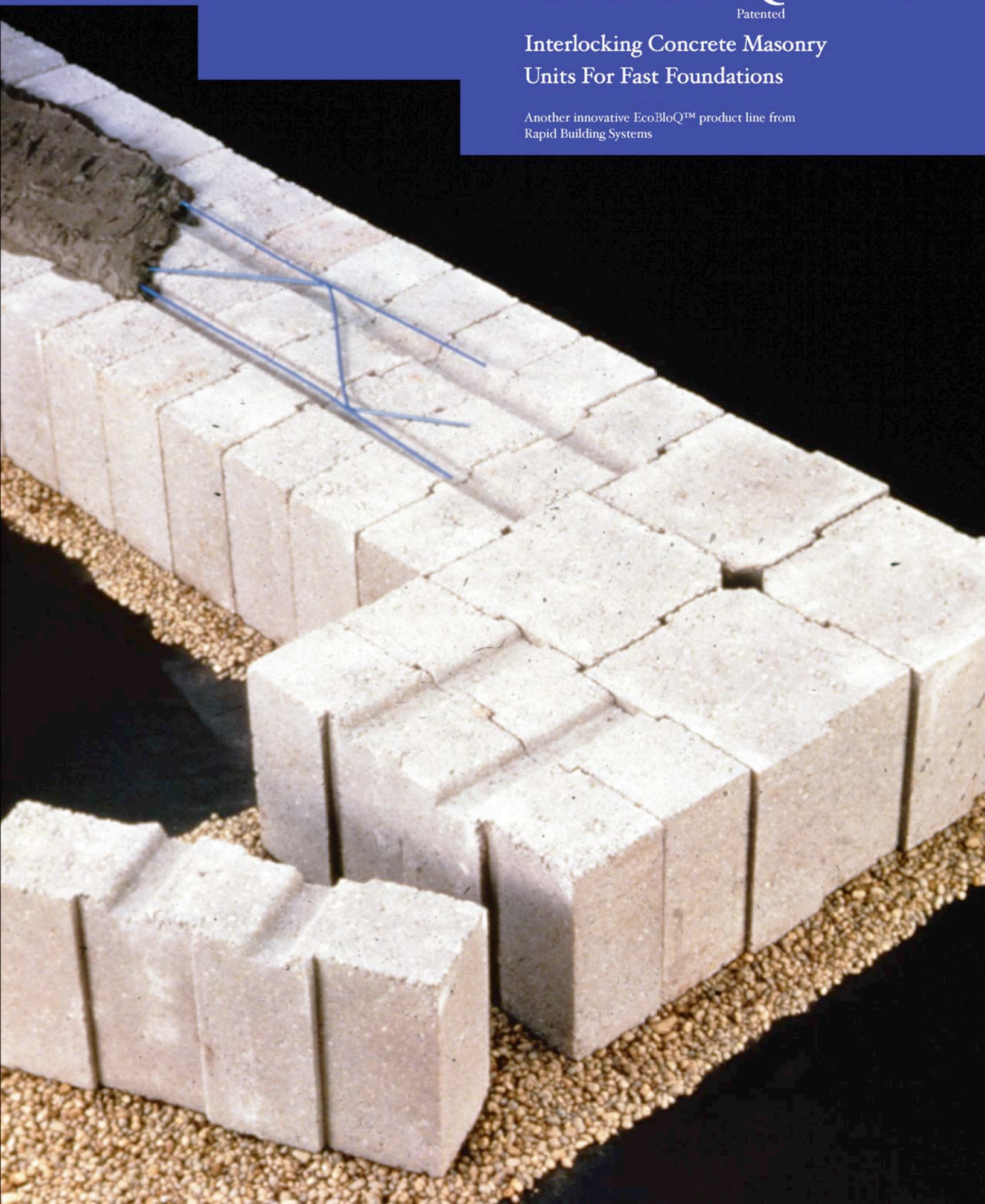
FooterBloQ™

Patented

04200 / RBS
BuyLine

Interlocking Concrete Masonry Units For Fast Foundations

Another innovative EcoBloQ™ product line from
Rapid Building Systems



Save Time – Save Labor When You Install The FooterBloQ™ System

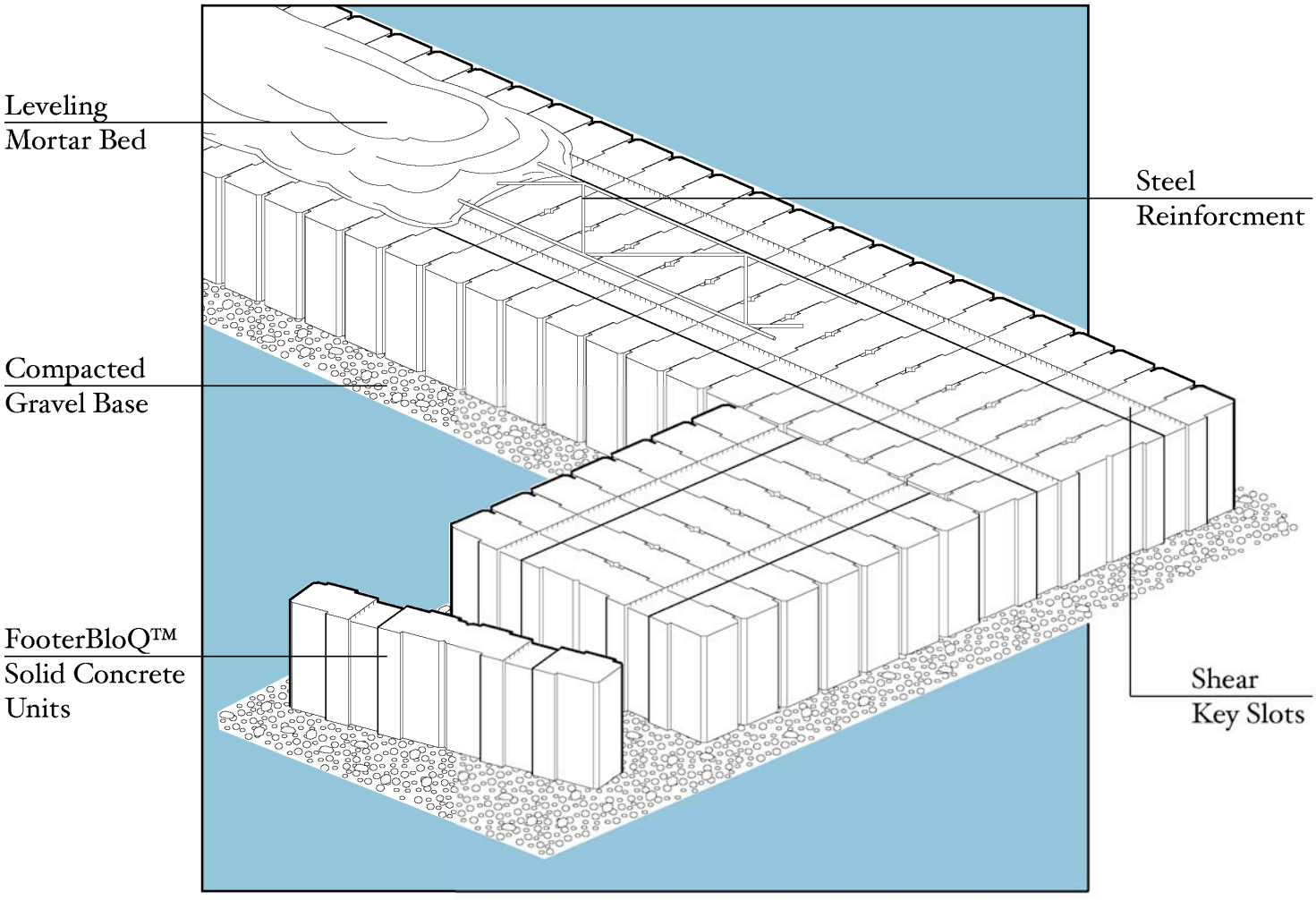
FooterBloQ™ is Versatile, Fast and Economical

- No formwork or stripping
- No waiting for footings to cure
- Lower costs by using less labor
- System interlocks for design freedom
- Re-bars or wire trusses install swiftly for easy reinforcement where required.

Your Building Goes Up Faster

FooterBloQ™ is a cost-saving solution to a variety of applications where speed of construction, foundation quality or concerns about access of ready-mix trucks are a factor.

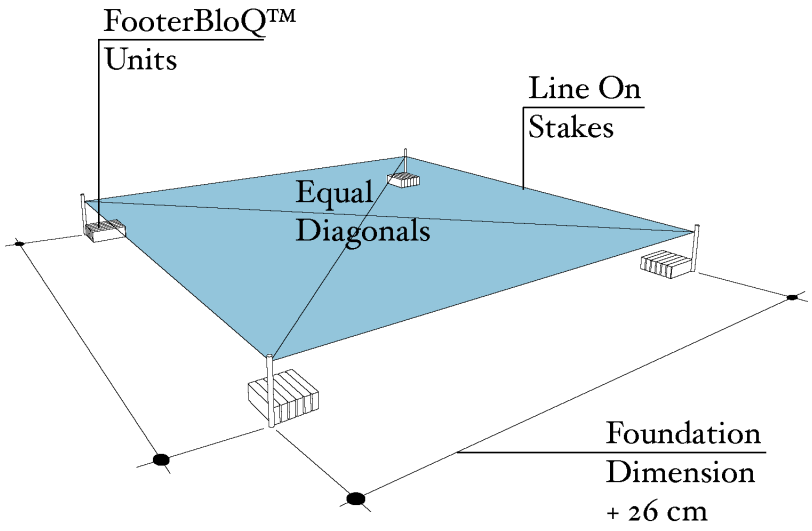
At least one day can be saved from the construction schedule of a typical house, because wall work can start immediately over FooterBloQ™. Comparative labor data indicates that FooterBloQ™ can significantly reduce labor requirements.

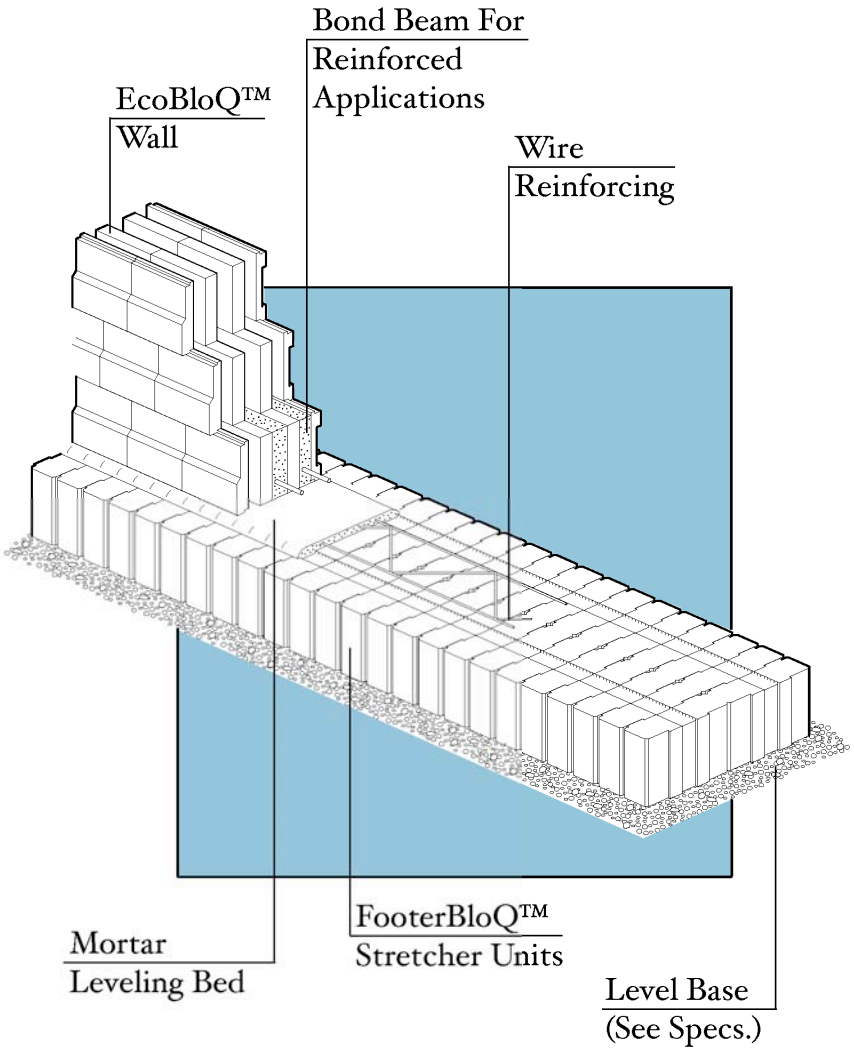


Easy Installation

The hallmark of FooterBloQ™ is achieved by its interlocking units which go together dry, without the use of mortar, shutterwork, and without long concrete chutes. All that is required is a capable soil base that can be quickly leveled off with gravel or lean concrete.

Once the excavation is prepared, simply establish the corner points and string a line between them. Working from the corners, interlock the FooterBloQ™ units, completing the leveling process as you go. Final leveling is accomplished with a mortar bed receiving the first foundation wall course over the FooterBloQ™ keys.





A Variety of Cost-Saving Applications

- **Residential Jobs** -
  FooterBloQ™ is economical for foundation walls and basements in single and multiple units.

- **Low-rise Commercial** -
  FooterBloQ™ permits rapid layout and construction of malls, office condominiums, warehouses, and manufacturing buildings.

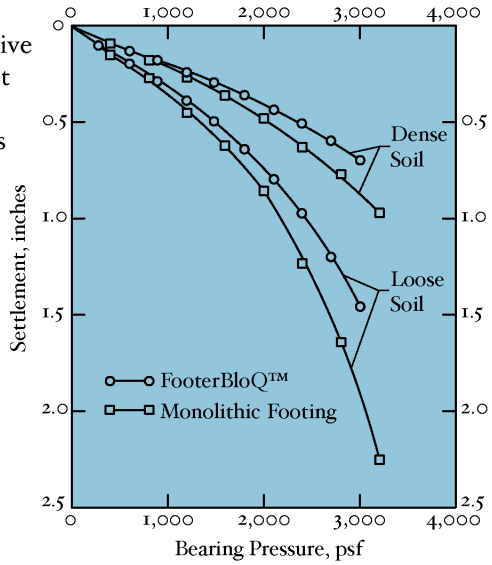
Design Freedom is maintained with the 8,75 cm module of FooterBloQ™, which conforms to virtually any architectural layout and plan configuration.
Because FooterBloQ™ is manufactured under controlled conditions in modern factories, quality is assured so that characteristics such as compressive strength are predefined, avoiding the unpredictability of site-cast conditions.

A Proven System

Designed to meet U.S. Building Codes and subjected to comprehensive testing and analysis by researchers from the Civil Engineering Department of Virginia Tech University (VPI & SU). FooterBloQ™ has demonstrated that *"it is as capable as monolithic footings to carry building loads...without excessive settlement".**

*From *Segmental Footing System Evaluation* - Dept. of Civil Engineering, VPI & SU, 1987

Comparative Settlement Results of Load Tests



SPECIFICATIONS

FEATURE	FooterBloQ™
Dimensions	53 x 9 x 18 cm
Unit Weight	17,3 Kg
Compressive Strength	19,3 MPa
Water Absorption	288 Kg / M^3
Units / Meter	11,4
Wall Thickness*	33 cm
Allowable Load**	6.000 Kg / m

* Maximum thickness of wall above FooterBloQ™, foundation reinforcement to be incorporated in wall above FooterBloQ™.

** Based on 120.000 N / m^2 soil capacity.

Another Innovation from:

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FOOTERBLOQ™ GUIDE SPECIFICATIONS

1.0 GENERAL - Work under this section includes furnishing and installing concrete masonry footings together with all inserts and reinforcements as shown or specified in the construction documents. Unless otherwise herein stipulated or applicable, requirements of ACI 531-1 shall govern concrete masonry work.

2.0 MATERIALS - Footings shall be constructed of solid, interlocking concrete masonry units meeting the standard requirements of "RBS FooterBloQ™" and conforming to ASTM C-145, as applicable, for Grade N, Type II or Type I units. Mortar shall be Type M or S per ASTM C-270. Truss and ladder type reinforcement shall be galvanized and have a minimum 3/16" diameter longitudinal wires.

2.1 - Physical Characteristics of FooterBloQ™ units delivered to the site shall not be inferior to:

- Compressive strength = 3,000 psi (average) 2,800 psi (unit) 20.7 MPa (average) 19.3 MPa (unit)
- Maximum water absorption = 10 lb/cu.ft. (160 kg/m3) (as measured on oven-dry units)

2.2 - Dimensional tolerances of FooterBloQ™ units shall not differ by more than 0.0625" (1.5 mm) from the manufacturing dimensions specified by the Licensor of the system (RBS).

2.3 - Concrete unit additives, such as air-entraining agents, water repellents, silica and integral pigments utilized in FooterBloQ™ units shall require documentation of their inclusion in applicable ASTM Standards, or test and experience records substantiating that said admixtures are not detrimental to the durability and/or performance of the FooterBloQ™ system, but in any case their proportions may not exceed 10% of the cement weight in the block mix.

2.4 - Mortar shall be Type M or S per ASTM C-270, and Grout shall comply with ASTM C-476.

2.5 - Reinforcements shall comply with ASTM A-615 or A616 for deformed bars, and ASTM A-153 for anchors and ties. RBS approved adhesive shall be used in lieu of wire reinforcing.

3.0 - CERTIFICATION - FooterBloQ™ units furnished shall bear manufacturer's certification corresponding to allowable compressive strength, absorptivity, and other quality control requirements for compliance under the FooterBloQ™ trademark. Contractor shall furnish acceptable test evidence that FooterBloQ™ units and associated elements comply with the requirements of this Specification. Present certificates for approval prior to material use on the job.

4.0 INSPECTION, SAMPLING AND TESTING - Purchaser may inspect, test and reject masonry units in accordance with ASTM C-140.

5.0 EXCAVATION - Base for concrete masonry unit footings shall be undisturbed soil at least 15 cm below frost line at construction site, with 10 cm compacted granular material, as approved by Engineer or as required by local building regulations. Earth base shall be free of uncompacted fills, debris, mud or snow prior to masonry footer installation, and in acceptable condition to building official. If sloping footings are required, neatly cut footing steps in 18 cm increments no closer than every 1.25 m, and in all cases level soil at bottom of excavation. Small level variations (+/- 3 cm) may be adjusted with compacted granular material or with mortar. Larger adjustments (+/- 5 cm) must be made with compacted pea gravel or lean concrete. Top surface of FooterBloQ™ may be considered level to +/- 2 cm.

6.0 INSTALLATION - Protect FooterBloQ™ units from rain and wetness prior to, during, and after erection, until footings are fully coped and flashed. After due verification that all field conditions are ready and acceptable for masonry work, and ensuring that items provided under other sections are properly sized and located, establish lines, levels and coursing in the horizontal and vertical directions. Verify foundation dimensions and wall angle prior to erecting a line set 4" outside of actual foundation wall dimensions (+/- 2 cm in 12 m). Start by laying and leveling the corner units first, and proceed to interlock the stretchers between the corners. The interlocking units shall be laid against each other with no mortar in the joints, except that mortar should be used as final filler between FooterBloQ™ units where footing length is not within module, or wherever hooked dowel anchors have been specified. Where masonry foundation walls are to be erected over FooterBloQ™, cover the tops of the footer units, to the width of the wall, with a full mortar bed to be utilized as finish leveling base for the first course of the foundation wall. Install joint reinforcement in the mortar bed in alignment with the FooterBloQ™ shear keys, ensuring that the main longitudinal wires have a minimum 2 cm mortar cover.

7.0 REINFORCING - In Seismic zones, or wherever required by local conditions or building regulations, install continuous deformed steel bar reinforcement of required size, number, and lap length, within first course of foundation wall (bond beam). Concrete masonry bond beam units or standard web-knock-out units may be used for re-bar installation. Install horizontal reinforcing bars on chairs or on raised block webs within bond beam course, together with any required dowels or vertical anchoring devices, and fill course with grout or concrete and tamp flush.

8.0 CLEAN-UP - Remove alignment stakes and strings, as well as scaffolding and equipment, clean-up debris, refuse and surplus materials, and remove from construction site. Leave footing in condition to receive sloped sill parging and exterior drain tile as shown on the drawings or as required.

9.0 - QUALITY ASSURANCE - In general, all masonry work shall be performed to comply with assembly dimensional tolerances and quality control requirements of ACI 530 and ACI 530.1