



**BAUTEX SYSTEMS, LLC**  
**5602 CENTRAL TEXAS DRIVE**  
**SAN MARCOS, TEXAS 78666**  
**(512) 637-1200**  
[www.bautexsystems.com](http://www.bautexsystems.com)

## EVALUATION SUBJECT

**Bautex Blocks BB616-10 – (1) 4-hour Fire-Resistance Rated Load Bearing Wall System (2) Surface Burning Characteristics**

### CSI Section:

**03 11 19 Insulating Concrete Forming**

## 1.0 RECOGNITION

### 1.1 Compliance with the following standards:

- ASTM E119-12 (ANSI/UL 263); ASTM E84 – 12 (ANSI/UL 723)

### 1.2 Properties assessed:

- Fire Tests of Building Construction and Materials
- Surface Burning Characteristics of Building Materials

## 2.0 LIMITATIONS

Use of the Bautex Blocks BB616-10 recognized in this report is subject to the following limitations:

**2.1** Bautex Block Wall System structures shall be installed in accordance with this report.

**2.2** The manufacturer’s published installation manual and this report shall be available at all times at the jobsite during construction. Where there is a conflict, the most restrictive shall govern.

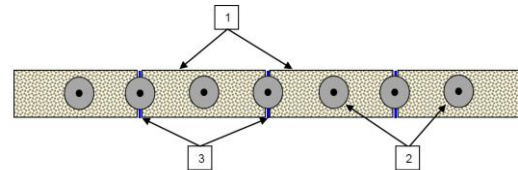
**2.3** Bautex Block BB 616-10 units and Bautex Wall Anchors BWA 22-10 shall be manufactured by Bautex Systems, LLC in San Marcos, Texas under a quality control program with inspections by Quality Control Consultants, LLC under the supervision of IAPMO UES.

**2.4** Additional recognition on the use of the Bautex Blocks BB616-10 is available in IAPMO UES ER-559.

## 3.0 DESCRIPTION

**3.1 Bautex Blocks:** Bautex Block BB 616-10 units are factory molded blocks manufactured of a proprietary blend of cement, EPS beads and additives. The Bautex Block units are nominally 16-inches-high (406 mm), 32-inches-long (813 mm) and 10-inches-thick (254 mm) with cores approximately six-inch (152 mm) in diameter spaced nominally 16-inches (406 mm) on-center both vertically and horizontally. Individual blocks weigh approximately 45 pounds (20.4 kg).

**3.2 Fire Tests of Building Construction and Materials:** Bautex Blocks BB616-10 were assembled to form a symmetrical 10-foot-high load bearing or non-load bearing wall including normal weight concrete and reinforcing bars (figure 1 of this report). The maximum allowable axial compression load is 10,500 pounds/foot. When tested in accordance with ASTM E119 the wall assembly achieved a 4-hour fire resistance rating.



**Figure 1**

**Item #1 Block** – 10" x 32" x 16" Bautex Blocks BB616-10 with 6 inch diameter hollow cores spaced 16 inches on center, both vertically and horizontally.

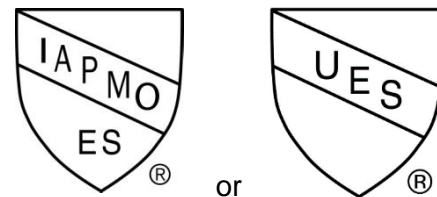
**Item #2 Concrete** – The cores were filled with normal weight concrete having a 4,000-psi minimum compressive strength. No. 4 Grade 60 or higher reinforcing bars shall be placed in each core. The concrete mix design shall be in accordance with the Engineers’ specifications, but in their absence the maximum size aggregate shall be 3/8” washed pea gravel or river rock preferred with a minimum 8” slump.

**Item #3 Proprietary Foam adhesive** – The blocks were adhered together using Wind-Lock Foam2Foam Professional Foam Adhesive filled into the joints.

**3.3 Surface Burning Characteristics of Building Materials:** Bautex Blocks BB616-10 exclusive of the adhesive have a flame spread index of 25 or less and smoke-developed index of 450 or less when tested in accordance with ASTM E84-12.

## 4.0 IDENTIFICATION

Bautex Block units are identified on the pallets by labels which shall include the IAPMO UES Listing Report Number IAPMO UES UEL-5034, and IAPMO UES ER-559. Bautex Logo, description of material, quantity of material, Bautex address, and a QR code indicating the date and time of packaging. Either mark of conformity may be used as shown below.



**IAPMO UES UEL-5034**

*The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.*





## 5.0 SUBSTANTIATING DATA

Data submitted includes the Manufacturer's descriptive literature and installation instructions. Testing was performed by laboratories in compliance with ISO/IEC 17025, and includes:

5.1 Report of fire testing in accordance with ASTM E119.

5.2 Report of testing for surface burning characteristics in accordance with ASTM E84.

## 6.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on the fire resistance ratings for Bautex Block Wall System BB616-10 Blocks to assess to assess performance according to the testing shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.3 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

**Brian Gerber, P.E., S.E.**  
Vice President, Technical Operations  
Uniform Evaluation Service

**Richard Beck, PE, CBO, MCP**  
Vice President, Uniform Evaluation Service

**GP Russ Chaney**  
CEO, The IAPMO Group

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)