



**CSI:** DIVISION: 04 00 00—MASONRY  
Section: 04 22 00—Concrete Unit Masonry

### Product Certification System:

The ICC-ES product-certification system includes evaluating evidence in support of test data provided by the listee to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

**Product:** ARCH BLOCK, PENT BLOCK, HEX BLOCK

**Listee:** SPHERICAL BLOCK, LLC

**Evaluation:** Arch Block, Pent Block and Hex Block were evaluated to the following standards:

- ASTM C90-16a and ASTM C90-14, Specification for Loadbearing Concrete Masonry Units, ASTM International.

**Findings:** The Arch Block, Pent Block and Hex Block, when tested in accordance with the requirements in ASTM C90, have met the minimum physical requirements outlined in Tables 1 and 2 of ASTM C90; ASTM C90 is referenced under Article 2.3 of TMS-602, which is referenced in the applicable sections of the following code editions:

- 2021 and 2018 *International Building Code*®  
Applicable Section: 2103.1
- 2021 and 2018 *International Residential Code*®  
Applicable Section: R606.2.1

### Description of products:

The Arch Block is a solid rectangular-shaped tapered masonry unit that varies in thickness at each corner. The variable thickness allows the blocks to be stacked to form masonry arches (See Figure 1).

The Pent Block and Hex Block are hollow core triangular shaped masonry units. The unique shape of the Pent Block units is designed such that when they are stacked, the units form a geodesic dome based on a pentagon. The unique shape of the Hex Block units is designed such that when they are stacked, the units form a geodesic dome based on a hexagon (See Figures 2 and 3).

### Identification:

1. Packaging of the Arch Block, Pent Block and Hex Block carries a label indicating the manufacturer's name and address, the product name, the ICC-ES listing report (ESL-1266) and the ICC-ES Listing Mark, as applicable.
2. The report holder's contact information is the following:

**SPHERICAL BLOCK, LLC**  
**1718 MOLAND ROAD**  
**ALFRED STATION, NEW YORK, 14803**  
**(585) 466-6046**  
[www.masonryarches.com](http://www.masonryarches.com)

**Installation:** The products must be installed in accordance with the Spherical Block, LLC published installation instructions and applicable codes.

**Conditions of listing:**

1. The listing report addresses only conformance with the standards and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. Structures using these products must be designed by a Registered Design Professional, and design(s) shall be submitted to the local code official for approval.
4. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
5. The Spherical Block product models Arch Block, Pent Block and Hex Block are manufactured in Alfred Station, New York under a quality control program with inspections by ICC-ES.

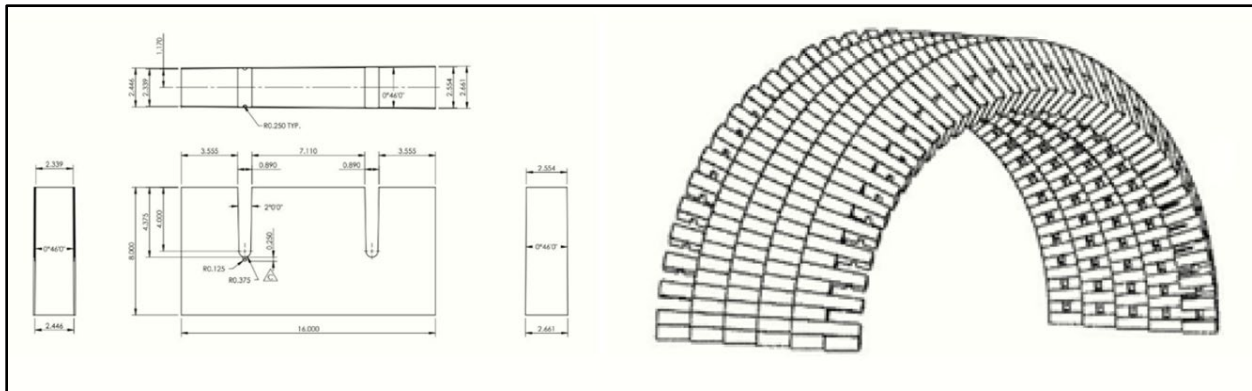


FIGURE 1—ARCH BLOCK

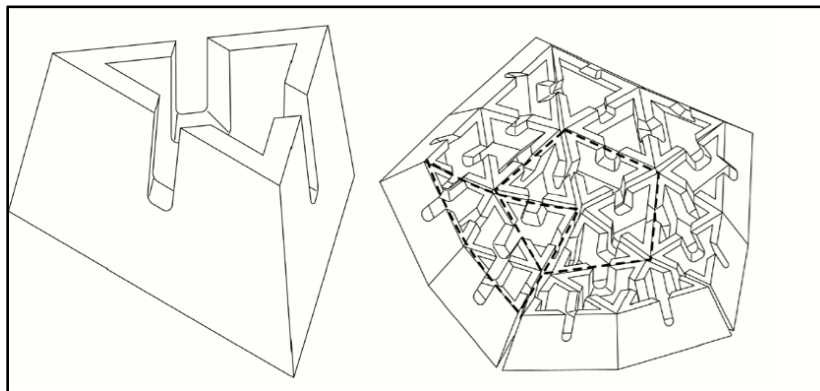


FIGURE 2—PENT BLOCK

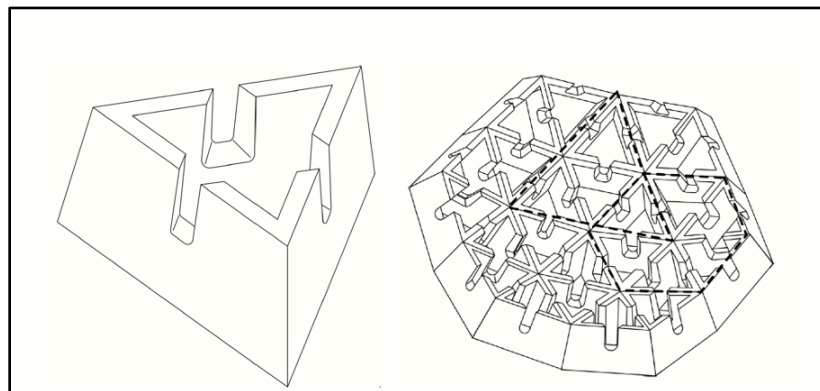


FIGURE 3—HEX BLOCK