



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

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and 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

Listee: SPHERICAL BLOCK, LLC

Evaluation: Arch Block was evaluated to the following standards:

- ASTM C1314-18, Standard Test Method for Compressive Strength of Masonry Prisms and ASTM C90-14, Specification for Loadbearing Concrete Masonry Units, ASTM International.

Findings: The Arch Block, when tested in accordance with the requirements in ASTM C1314 and ASTM C90, has been shown to comply with the minimum physical requirements outlined in Table 2 of TMS 602-16 for masonry units with a net compressive strength of 2,000 psi (13.79 MPa) when masonry bed joints not exceeding $\frac{5}{8}$ inch (16 mm) are constructed with Type S or M mortar conforming with ASTM C270. TMS 602-16 is referenced under Article 3.1.3.2 of TMS-402-16, which is referenced in the applicable sections of the following code editions:

- 2021 and 2018 *International Building Code*®
Applicable Section: 2101.2
- 2021 and 2018 *International Residential Code*®
Applicable Section: R606.1

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).

Identification:

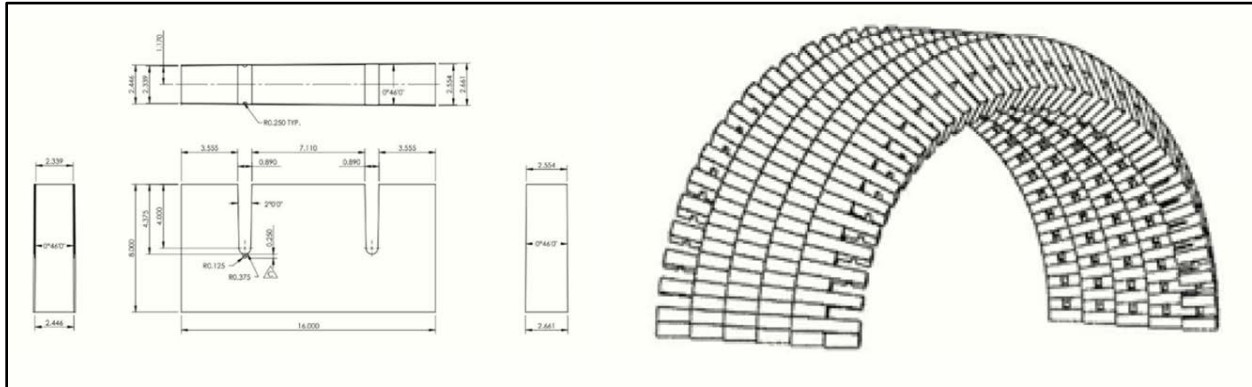
1. Packaging of the Arch Block carries a label indicating the manufacturer's name and address, the product name, the ICC-ES listing report (ESL-1304) and the ICC-ES Listing Mark, as applicable.
2. The report holder's contact information is the following:

SPHERICAL BLOCK, LLC
1718 MOLAND ROAD
ALFRED STATION, NEW YORK, 14803
(585) 466-6046
www.masonryarches.com

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, Arch Block, is manufactured in Alfred Station, New York under a quality control program with inspections by ICC-ES.

**FIGURE 1—ARCH BLOCK**