**PRODUCT DESCRIPTION**

**BASIC USE** A calcium silicate masonry unit used for masonry veneer construction. Veneer applications include traditional full-bed masonry installations and thin-clad installations. For thin-clad installations refer to ARRISCRAFT•DATA – Thin-Clad Calcium Silicate Units.

For interior and exterior use in residential, commercial and institutional applications.

**COMPOSITION AND MATERIAL** Renaissance® Masonry Units are manufactured calcium silicate masonry units containing no Portland cement. They are pressure-formed and autoclave cured, resulting in high-density, severe weathering modular masonry units, with one or more finished faces. Refer to ARRISCRAFT•NOTE – Calcium Silicate Masonry Units for further information. They may be site cut, trimmed and finished to custom lengths, shapes or sizes, as necessitated by site conditions.

**SHAPES AND SIZES** Renaissance® Masonry Units are available in imperial standard sizes. (Metric sizes are also available from the Cambridge, Ontario manufacturing facility. Ask your local representative for details).

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<th>CODE</th>
<th>HEIGHT</th>
<th>LENGTH</th>
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<tr>
<td>REN 358</td>
<td>3-5/8”</td>
<td>23-5/8”</td>
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<tr>
<td>REN 758</td>
<td>7-5/8”</td>
<td>23-5/8”</td>
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<tr>
<td>REN 1158</td>
<td>11-5/8”</td>
<td>23-5/8”</td>
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Renaissance® Masonry Units are also available in custom shapes and sizes, up to a maximum length of 23 5/8” and face rise of 11/5/8”. Bed depths are limited to a maximum of 3-5/8” with rocked faces, and 4-5/8” with smooth faced finished. Profiles such as margins, chamfers, notches and bullnoses are available at a premium price. Refer to the Renaissance® Custom Profiles Guide for further information or contact your local Arriscraft representative or dealer.

**TOLERANCES** Renaissance® Masonry Units are fabricated to the following tolerances:

- Unit Length: ± 1/16”
- Unit Height: ± 1/16”
- Deviations from square, with the measurement taken using the longest edge as the base will be ±1/16”
- Bed Depth Thickness: ± 1/8”
- Custom Unit Dimensions: ± 1/8”

Finished unit heads can be custom ordered or finished on site by the contractor. With Smooth, Sandblasted and Slate finishes, about 15% of units randomly placed on skids come with one acceptable head. Units ordered with finished heads will deviate from the standard dimension. Refer to Table 04230.1.A for the expected deviations when ordering finished heads.

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<tr>
<td>Grass</td>
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<tr>
<td>Rocked</td>
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<td>Slate</td>
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Due to the nature of these finishing operations, the custom dimensions tolerance of ± 1/8” will apply.

A factory applied coating may be present on the long mortar beds of the units. Consider the need to order finished beds for application where they may be exposed.

Renaissance® Masonry Units are shop inspected to be sound and free of cracks, chips or other defects that would either affect the serviceability or strength of the unit, or become exposed once installed and visible when viewed from a distance of not less than 10 ft. under diffused light. Units being provided with rusticated faces are inspected for cracks and blemishes only, as chippage considerations do not apply when the desired surface texture and unit shape is intended to be uneven.

**LIMITATIONS** Manufactured masonry products are generally intended for above grade installations. All manufactured masonry units, regardless of their composition, are inherently absorptive, and none are intended for use below grade. Units installed below grade will wick moisture from the soil that is in contact with the masonry units and create a condition known as “rising damp” in the masonry veneer.

In colder climates, masonry walls at grade may become exposed to de-icing compounds. Like all types of manufactured masonry units, calcium silicate masonry units should not be installed where they will be directly exposed to de-icing compounds used to melt snow and ice from pavements. For information about installing masonry at grade refer to the “At Grade Design Ideas” brochure.

The function of caps and copings is to prevent moisture from entering the building envelope through the top of the wall. As most manufactured masonry units are produced in relatively short lengths, if they are used as a cap or coping material, more mortar joints are required between the individual units. These mortar joints are the most likely entry points for moisture to infiltrate the building envelope. As such, it is generally recommended within the industry that longer components, such as quarried stone or metal parapet cap flashing be used to reduce the number of joints thereby limiting the areas that may allow moisture infiltration of the building envelope.

**COLORS AND FINISHES** Renaissance® Masonry Units are available from our Cambridge, Ontario and Fort Valley, Georgia manufacturing facilities in standard colors and finishes listed in Table 04230.2.A.

| Standard Finishes and Colors - Table 04230.2.A |
|-------------------------------|---------|---------|---------|---------|
| Colors | Sandblasted | Dressed | Rocked | Slate |
| Wheat | • | • | • | • |
| White | • | • | • | • |
| Aurora | • | • | • | • |
| Nutmeg | • | • | • | • |
| Olive | • | • | • | • |
| Sage | • | • | • | • |
| Paprika | • | • | • | • |
| Birchbark | • | • | • | • |
| Driftwood | • | • | • | • |
| Sandrift | • | • | • | • |
| Smooth | • | • | • | • |
| Rocked | • | • | • | • |

These units consist of a range of distinct colors. The distribution of colors within each unit will vary. Refer to actual color samples and panels for final color selection.

Custom colors are also available on a minimum order basis. Contact your local Arriscraft representative or dealer for assistance.
additional information.
These standard finishes are described below:
- Sandblasted Finish: A matte textured, relatively fine-grained uniform smooth surface.
- Rocked Finish: A bold rustic finish resulting from hand-chiseling the masonry unit to a set bed depth.
- Dressed Finish: A smooth finish which exposes any inherent mottled coloring of the unit. Visible finishing marks in a circular pattern are considered acceptable.
- Slate Finish: A natural slate-like texture.
- Smooth Finish: Similar to dressed, achieved by lightly honing the surface with a mechanical, fine abrasive head in a wide, circular motion.

As a manufactured product, Renaissance® Masonry Units are monitored for color consistency. Slight variations between batches may occur and it is recommended that the installer mix units from different skids during installation.

Consultants should review samples prior to selecting a particular color and finish.

TECHNICAL DATA

APPLICABLE STANDARDS Required properties for calcium silicate masonry are described in ASTM_C73, Standard Specification for Calcium Silicate Face Brick (Sand-Lime Brick). This standard classifies calcium silicate products as either moderate-weathering or severe-weathering depending on the material’s tested physical properties of compressive strength and 24-hour absorption.

Renaissance® Masonry Units meet the severe weathering requirements of this standard.

INSTALLATION

Renaissance® Masonry Units must be installed using approved materials and techniques for each specific installation. Construct masonry veneer with an adequate number of elastic movement joints, properly located to accommodate differential movement. Refer to ARRISCRAFT•NOTE – Building Movement Joints for further information.

Construct masonry veneer in accordance with TMS 402-11/ACI 530-11/ASCE 5-11 Building Code Requirements for Masonry Structures in the United States, and any local requirements stipulated by the authorities having jurisdiction. Mortar joints between units in any direction should be 3/8” thick. Mortar for unit masonry veneer should be a Type N Portland cement-lime mix, proportioned to a 1:1:6 ratio.

The ratio refers to:
- 1 part Portland cement (ASTM C150, Type I)
- 1 part hydrated lime (ASTM C207, Type S); and
- 6 parts masonry sand (ASTM C144).

When properly combined with the appropriate quantity of water, it will produce a general-purpose mortar, exhibiting good workability and board life in its plastic state, and good durability and flexibility in its hardened state, and conforming to ASTM C270, Standard Specification for Mortar for Unit Masonry. For further information, refer to ARRISCRAFT•NOTE – Mortar for Masonry Veneer.

Arriscraft International recommends construction masonry veneer with proper drainage mechanisms, including clear draining air spaces, through wall flashing membranes and weep hold vents. The air spaces must be at least 1” wide, and kept clear of debris, protrusions, mortar fins and droppings. Weep hold vents should be installed at the same level as through wall flashing membranes and spaced not more than 24” on centre horizontally. Refer to ARRISCRAFT•NOTE – Moisture Management for further information. Renaissance® Masonry Units must be connected to a structural substrate with an approved masonry connection system, designed by the consultant for each specific installation. Refer to ARRISCRAFT•NOTE – Connectors – Part I, Masonry Ties.

AVAILABLE AND COST

AVAILABILITY Renaissance® Masonry Units are available worldwide. Delivery times for orders will vary based on the complexity of what is required. Arriscraft International cannot be responsible for delays due to fire, acts of God, or any other cause beyond its control or which could not be reasonably foreseen. Contact Arriscraft International for a list of dealers in your area.

COST Quoted on a project basis for job-specific manufacturing to project requirements.

WARRANTY

Arriscraft International warrants its products against deterioration for the life of the building, provided the products have been erected and used according to accepted masonry standards, within the guidelines of local building codes and as recommended by the manufacture.

Complete warranty information is outlined on the Arriscraft International standard form of Product Warranty.

MAINTENANCE

Renaissance® Masonry Units should have excess mortar removed from their faces by brushing as they are placed within the wall at the point of tooling. Clean Renaissance® Masonry Units in accordance with the cleaning guidelines in ARRISCRAFT•CARE. Some masonry detergents and cleaning systems can change the color of masonry products. Acid-based cleaning agents will darken the color of the masonry units.

Always pre-test cleaning agents and methods on the job-site mock-up panel or a small inconspicuous area of the wall. The Consultant and /or Owner should approve the test area prior to the start of full-scale cleaning operations. Refer to ARRISCRAFT•CARE – Cleaning Guidelines and ARRISCRAFT•NOTE – Cleaning Masonry for further information. Arriscraft International does not recommend the application of water repellent or graffiti-proofing sealers to its masonry products.

TECHNICAL SERVICES

Arriscraft International offers consultation services to assist with the preparation of details, specifications and with pricing. Enquiries are addressed promptly and without obligation.

RELATED REFERENCES

Arriscraft International distributes an integrated technical information system including:
- ARRISCRAFT•CADD are sample details which are available in .dwg, .dxs, and .pdf formats.
- ARRISCRAFT•DATA are product data sheets.
- ARRISCRAFT•NOTE are technical discussions with respect to building construction issues and
- ARRISCRAFT•SPEC are master guide specification sections.

All of these technical resources are available to be downloaded from the Arriscraft International web site at www.arriscraft.com. Arriscraft International also makes available samples for color and finish, coursing charts and copies of test reports upon request.