PRODUCT DESCRIPTION

BASIC USE Thin calcium silicate units used in thin adhered veneer installations for both interior and exterior applications. Appropriate for use in residential, commercial and institutional building projects.

COMPOSITION AND MATERIAL Thin-Clad ARRIS-tile Renaissance® Units are manufactured calcium silicate units containing no Portland cement. They are pressure formed and autoclave cured, resulting in high-density, severe-weathering modular units, with one or more finished faces.

SHAPES AND SIZES Thin-Clad ARRIS-tile Renaissance® Units are available in a variety of standard sizes:

Code	Height	Length	Bed
RS358 TILE	3-5/8"	23-5/8"	3/4"
RS758 TILE	7-5/8"	23-5/8"	3/4"
RS115 TILE	11-5/8"	23-5/8"	3/4"

To comply with the industry-accepted standard of 15 lbs/ft² for adhered veneer units, the thickness of the Thin-Clad ARRIS-tile Renaissance® Units is limited to a maximum of 3/4" with rocked finishes and 1-3/8" with smooth finishes.

Corner units with 3-5/8" returns can be provided for smooth and rocked textures. Return corner units are 22-7/8" long.

Additional custom shapes and sizes are available, up to a maximum length of 23-5/8" and face rise of 11-5/8". An alternate bed depth of 2" is available. Profiles such as margins, chamfers, notches and bullnoses are available at a premium price. Refer to the Thin Clad Profiles Guide for further information or contact your local Arriscraft representative or dealer.

TOLERANCES Thin-Clad ARRIS-tile Renaissance® Units are fabricated to the following tolerances:
- Unit height and length: +/- 1/16"
- Deviation from square, with the measurement taken using the longest edge as the base will be +/- 1/16"
- Unit bed: +/- 1/16" for smooth, +/- 1/4" for rocked
- Custom unit dimensions: +/- 1/8"

Units shall exhibit a texture approximately equal to the approved sample when viewed under diffused daylight illumination at a 20 foot distance. Minor chipping resulting from shipment and delivery shall not be grounds for rejection. Minor chips shall not be obvious under diffused daylight illumination from a 20 foot distance.Units with rocked faces are inspected for cracks and blemishes only, as the same chippage considerations do not apply when the desired surface texture and unit shape are intended to be uneven.

LIMITATIONS Thin-Clad ARRIS-tile Renaissance® Units are not intended for use in flooring or paving applications. Adhered installation methods are not appropriate for applications where the adhering mortar will be in tension. For example, Thin-Clad ARRIS-tile Renaissance® Units should not be installed in soffit applications.

Thin-Clad ARRIS-tile Renaissance® Units are generally intended for above-grade installations. Manufactured masonry units, regardless of their composition, are inherently absorptive, and as such, are not intended for use below grade. Units installed below grade will tend to absorb moisture from the soil that is in direct contact with the masonry units effectively creating a condition known as "rising damp" in the masonry veneer.

In colder climates, Thin-Clad ARRIS-tile Renaissance® Units installed at- or below-grade may become exposed to de-icing compounds. As with other 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 Arriscraft "At-Grade Design Ideas" brochure.

COLORS AND FINSHES Thin-Clad ARRIS-tile Renaissance® Units are available from our Fort Valley, Georgia manufacturing facility in the colors and finishes listed in Table 1.

Table 2 – Standard Finishes and Colors

Color		Finish		
		Standard		Custom
		Smooth	Rocked	Satin
Monochromatic	Champagne	•	•	•
	Limestone	•	•	•
	Suede	•	•	•
Monochromatic Range	Café	•	•	•
	Graphite	•	•	•
Striated	Ginger	•	•	
	Oak Ridge	•	•	
Striated Range	Sunset	•	•	•
	Garnet	•	•	•
	Magnolia	•	•	
	Merlot	•	•	•
	Montecito	•	•	•

- Monochromatic colors consist of a single hue.
- Monochromatic range colors consist of a single hue with a subtle distribution of tones that vary from unit to unit.
- Striated colors are a multi-hued blend.
- Striated range colors are a multi-hued blend and will contain a distribution of colors or shades that vary from unit to unit.

Custom colors are also available on a minimum order basis. Contact your local Arriscraft representative or dealer for additional information.

The standard finishes are described below:
- Smooth finish: achieved by lightly honing the surface with a mechanical, fine abrasive head in a wide, circular motion.
- Rocked finish: a surface finish resulting from mechanical splitting and hand-chiseling of the masonry unit to a set depth to achieve a bold rustic appearance.
- Satin Finish: A uniform fine grained finish similar to sandblasted

As a manufactured product, Thin-Clad ARRIS-tile Renaissance® 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 units are described in ASTM C73-10, Standard Specification for Calcium Silicate Face 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. Thin-Clad ARRIS-tile Renaissance® Units meet and exceed the requirements necessary to comply with the severe-weathering classification.

INSTALLATION

DELIVERY Thin-Clad ARRIS-tile Renaissance® Units are delivered to the site in protective packaging.

HANDLING Lift skids with proper and sufficiently long slings or forks with protection to prevent damage to units. Protect edges and corners.

STORAGE Store Thin-Clad ARRIS-tile Renaissance® Units in a manner designed to prevent damage and staining. Stack units on timbers or platforms at least 3" above grade. Place polyethylene or other plastic film between wood and other finished surfaces of units when stored for long periods of time. Cover stored units if exposed to extreme weather conditions. Do not use de-icing compounds to remove ice from masonry surfaces.

INSTALLATION Thin-Clad ARRIS-tile Renaissance® Units must be installed using approved materials and techniques for each specific installation. Refer to the ARRISCRAFT•CADD Library for applicable details. Options are available for drainage plane, insulated drainage plane, ASHRAE 90.1 compliant, and barrier wall system installations. Construct Thin-Clad ARRIS-tile Renaissance® Unit walls in accordance with all applicable codes and standards and any local requirements stipulated by the authorities having jurisdiction.

A suitably solid substrate should be provided to support the Thin-Clad ARRIS-tile Renaissance® Units. Suitable substrate options include steel stud, poured concrete, concrete masonry unit (CMU), and wood stud. Installation on other substrates may be possible. Contact Arriscraft Technical Services for information on installation over specific substrates. Design substrate for a maximum allowable deflection of L/600 (L/720 preferred).

Wall configuration is to be designed and constructed conforming to LATICRETE® MVIS installation instructions, including, but not limited to:
- LATICRETE® Hi-Bond Masonry Veneer Mortar
- LATICRETE® Air & Water Barrier
- LATICRETE® Premium Masonry Pointing Mortar
- LATAPOXY® 310 Stone Adhesive
- LATICRETE® MVIS Silicone Sealant™

When properly installed utilizing the MVIS system, LATICRETE® provides a system warranty. Elimination or substitution of any materials may negate the system warranty.

LATICRETE® Hi-Bond Masonry Veneer Mortar is a polymer-fortified mortar that meets the requirements of ANSI A118.4. Mortar should be applied to achieve 100% coverage. Mortar should be burned into the backs of the units and substrate to optimize bond. Traditional unit masonry mortars are not appropriate for this application.

Inclusion of LATICRETE® Air & Water Barrier is recommended for exterior applications. For interior applications, LATICRETE® Air & Water Barrier is not necessarily required. LATICRETE® Air & Water Barrier is an ABAA-approved water barrier.

LATICRETE® Premium Masonry Pointing Mortar should be applied using a grout bag or grout gun to fill the joints between the Thin-Clad ARRIS-tile Renaissance® Units. The joints should then be tooled when thumbprint hard to a smooth, tightly compressed surface like a traditional masonry application. Joint filling methods, such as the float method, commonly used in tile installations, should not be used with Thin-Clad ARRIS-tile Renaissance® Units.

Unless utilizing LATAPOXY® 310 Stone Adhesive in the system, the spot-daub or ribbon methods should not be used. If LATAPOXY® 310 Stone Adhesive is to be used contact Arriscraft Technical Services for further information.

LATICRETE® MVIS Silicone Sealant™ is a silicone sealant that can be used for movement joint applications around windows and doors and sealing underneath flashing. A good quality backer rod should be used with any application of the sealant.

Construct tile veneers with an adequate number of elastic movement joints, properly located to accommodate differential movement. Refer to ARRISCRAFT•NOTE (Vol. IV, No. 1) Movement Joints for Thin Adhered Veneer for further information.

Other installation systems may be applicable. Contact Arriscraft Technical Services with any questions.

AVAILABILITY AND COST

AVAILABITY Thin-Clad ARRIS-tile Renaissance® Units are available worldwide. Delivery times for orders will vary based on the complexity of the order. Arriscraft 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 for a list of dealers in your area.

Following initial order and receiving full sets of architectural and structural drawings and specifications, shop drawings will require approximately 5-6 weeks to prepare. Additional time should be allotted for review and comment.

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

WARRANTY

Arriscraft warrants its products against deterioration for the life of the building, provided the products have been erected and used according to accepted standards, within the guidelines of local building codes and as recommended by the manufacturer. Complete warranty information is outlined on the Arriscraft standard form of Product Warranty.

MAINTENANCE

Clean Thin-Clad ARRIS-tile Renaissance® Units in accordance with the cleaning guidelines in Thin-Clad•CARE. Various proprietary masonry cleaning detergents and acid-based cleaning systems may alter the color of Thin-Clad ARRIS-tile Renaissance® 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 Thin-Clad•CARE and ARRISCRAFT•NOTE (Vol. 2, No. 2) Cleaning Masonry for further information.

Arriscraft does not recommend the application of water repellent or graffiti-proofing sealers to its masonry products.

TECHNICAL SERVICES

Arriscraft offers consultation services to assist with the preparation of details, specifications, profile drawings, shop drawings, and pricing. Enquiries are attended to promptly and without obligation.

RELATED REFERENCES

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

These technical resources are available for download at www.arriscraft.com.

Arriscraft also makes available samples for color and finish, coursing charts, and copies of test reports upon request.