

PRODUCT DESCRIPTION

BASIC USE Thin calcium silicate units used as a stone assembly on a metal grid support framework. Assembly is site fabricated. Appropriate for use in residential, commercial and institutional building projects.

COMPOSITION AND MATERIAL Thin-Clad ARRIS-clip 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-clip Renaissance® Units are available in a variety of standard sizes:

Code	Height	Length	Bed
Metric			
REN09 CLIP	90 mm (3-1/2")	590 mm (23-1/4")	35 mm (1-3/8")
REN19 CLIP	190 mm (7 1/2")	590 mm (23-1/4")	35 mm (1-3/8")
REN29 CLIP	290 mm (11 3/8")	590 mm (23-1/4")	35 mm (1-3/8")
Imperial			
RS358 CLIP	92 mm (3-5/8")	600 mm (23-5/8")	35 mm (1-3/8")
RS758 CLIP	194 mm (7-5/8")	600 mm (23-5/8")	35 mm (1-3/8")
RS115 CLIP	295 mm (11-5/8")	600 mm (23-5/8")	35 mm (1-3/8")

Modular metric sizes are available upon request.

Corner units with 92 mm (3-5/8") returns can be provided for smooth and rocked textures. Return corner units are 581 mm (22-7/8") long.

Additional custom shapes and sizes are available, up to a maximum length of 600 mm (23-5/8") and face rise of 295 mm (11-5/8"). An alternate bed depth of 51mm (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-clip Renaissance® Units are fabricated to the tolerances listed in Table 1.

Table 1 - Tolerances

Dimension	Smooth		Rocked	
	Standard	Custom	Standard	Custom
Height	+/- 1/16"	+/- 1/8"	+/- 1/16"	+/- 1/8"
Length	+/- 1/16"	+/- 1/8"	+/- 1/16"	+/- 1/8"
Bed	- 1/16" to +1/8"	+/- 1/8"	+/- 1/4"	+/- 1/8"
Kerf Depth	1/2" min.	1/2" min.	1/2" min.	1/2" min.
Kerf to Face	+/- 1/16"	+/- 1/16"	+/- 1/4"	+/- 1/4"

Units shall exhibit a texture approximately equal to the approved sample when viewed under diffused daylight illumination at a 6 Metre (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 6 Metre (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-clip 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-clip 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.

COLOURS AND FINISHES Thin-Clad ARRIS-clip Renaissance® Units are available from our Fort Valley, Georgia manufacturing facility in the colours and finishes listed in Table 2.

Table 2 – Standard Finishes and Colours

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

Custom colours 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-clip Renaissance® Units are monitored for colour 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 colour 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-clip Renaissance® Units meet and exceed the requirements necessary to comply with the severe-weathering classification.

INSTALLATION

DELIVERY Thin-Clad ARRIS-clip 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-clip Renaissance® Units in a manner designed to prevent damage and staining. Stack units on timbers or platforms at least 76 mm (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-clip 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 sealed rainscreen, open rainscreen and ASHRAE 90.1 compliant wall systems. Construct Thin-Clad ARRIS-clip 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 anchors and Thin-Clad ARRIS-clip Renaissance® Units. Suitable substrate options include 16 gauge steel stud, poured concrete, concrete masonry unit (CMU), and wood stud. Other steel stud gauges may be appropriate. Installation on other substrates may be possible. Contact Arriscraft Technical Services for information on installation over specific stud gauges or substrates. Design substrate for a maximum allowable deflection of L/360.

Thin-Clad ARRIS-clip Renaissance® Units are provided with kerfs cut into the top and bottom of the units. Using the Gridworx™ installation system to anchor the units to the substrate is one method of anchoring the units to the wall system. Refer to the installation recommendations provided by Gridworx (www.gridworxwalls.com). However, other engineered anchoring systems may be used. Contact Arriscraft Technical Services for assistance.

When properly installed utilizing the Gridworx™ system, Precision Wall Systems provides a system warranty. Elimination or substitution of any materials may negate the system warranty. When filling the joints between Thin-Clad ARRIS-clip Renaissance® Units in a sealed rain screen installation, we

recommend using a good quality backer rod and joint sealant. The installer must ensure units are adjusted in situ to align the faces prior to sealing. Dow Corning® 790 Silicone Building Sealant or LATICRETE® MVIS Silicone Sealant™ can be used to seal joints.

An open rain screen application for use with Thin-Clad ARRIS-clip Renaissance® Units is also available. Joint treatment for open rain screen is a combination of continuous coloured L-brackets for horizontal joints and coloured vertical water blockers for vertical joints.

Construct clip veneers with an adequate number of elastic movement joints, properly located to accommodate differential movement. Refer to ARRISCRAFT•NOTE (Vol. IV, No. 2) Movement Joints for Clipped or Anchored Thin Veneer for further information.

AVAILABILITY AND COST

AVAILABILITY Thin-Clad ARRIS-clip 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-clip 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 colour of Thin-Clad ARRIS-clip 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 colour and finish, coursing charts, and copies of test reports upon request.

For additional information on Gridworx products visit www.gridworxwalls.com.