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 Building Stone is 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. They are then fabricated to the desired thickness to produce the thin units. The units may be site cut, trimmed and finished to custom lengths, shapes or sizes, as required on site.

SHAPES AND SIZES Thin-Clad Building Stone is available in a variety of standard sizes:

Code	Height	Length	Bed
ARRIS-stack			
AS21	54mm (2-1/8")	102 to 546 mm (4" to 21-1/2")	38 mm (1-1/2")
AS35	92 mm (3-5/8")	102 to 546 mm (4" to 21-1/2")	32 mm (1-1/4")
AS56	148 mm (5-13/16")	102 to 305 mm (4" to 12")	46 mm (1-13/16")
Coastal			
COA21	54mm (2-1/8")	102 to 600 mm (4" to 23-5/8")	38 mm (1-1/2")
COA35	92 mm (3-5/8")	102 to 600 mm (4" to 23-5/8")	32 mm (1-1/4")
COA62	157 mm (6-3/16")	102 to 305 mm (4" to 12")	46 mm (1-13/16")
Midtown 2-1/8" Size			
MID21	54mm (2-1/8")	102 to 600 mm (4" to 23-5/8")	38 mm (1-1/2")
Midtown 3-5/8" Size			
MID35	92 mm (3-5/8")	102 to 600 mm (4" to 23-5/8")	32 mm (1-1/4")

Shipped material includes a percentage of shorter random length/fragmented units which can be used by the installer around openings such as windows and doors, to create the random ashlar bond pattern, or in internal corners where two walls meet. Some units may need to be field trimmed or guillotine split to ensure units fit snugly together.

Stretcher material is available in either 100 square foot skids or 5 square foot boxes, containing all available sizes to achieve bond. Corner pieces are available in boxes of 5 linear corner feet, containing all available sizes.

TOLERANCES Thin-Clad Building Stone is fabricated to the following tolerances:

- AS21 and AS35 unit height: +/- 1.5 mm (1/16")
- AS56 unit height: +/- 6 mm (1/4")
- COA21 and COA35 Unit Height +/- 1.5 mm (1/16")
- COA62 unit height: +/- 6 mm (1/4")
- AS21/35/56, COA21/35/62, MID21, MID35 unit bed: +/- 6 mm (1/4")
- MID21, MID35 unit height +/- 1.5 mm (1/16")

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 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 Thin-Clad Building Stone is 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 Building Stone should not be installed in soffit applications.

Thin-Clad Building Stone is 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 Building Stone 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 FINSHES Thin-Clad Building Stone is available from our Fort Valley, Georgia and Cambridge, Ontario manufacturing facilities in the following standard colours:
ARRIS-stack: Ash, Beach, Cappuccino, Desert Sand, Ice, Matrix, Storm and Tabasco.
Coastal: White Cliff, Baja, Black Sands, Amalfi, Cape Cod.
Midtown: Biscayne, Peachtree, Broadway, Newbury, Lombard.

Different colours may be blended in a wall. For more information on common colour blends contact Arriscraft. Custom colours are also available on a minimum order basis.

As a manufactured product, Thin-Clad Building Stone is monitored for colour consistency. Slight variations between batches may occur, and it is recommended that the installer mix units from different skids during installation.

The standard finish for Thin-Clad Building Stone is a split finish. Splitting is a surface finish resulting from splitting a manufactured masonry unit during production, to achieve a rough, stone-like texture. Some units may have split fronts and backs. AS56 and COA62 units are manufactured with split beds and may require shimming to align the units.

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 C73-14, 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 Building Stone meets and exceeds the requirements necessary to comply with the severe-weathering classification.

INSTALLATION

DELIVERY - Thin-Clad Building Stone is 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 Building Stone in a manner designed to prevent damage and staining of units. 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 extended periods of time. Stored units should be covered if exposed to extreme weather conditions.

Do not use de-icing compounds to remove ice from masonry surfaces.

INSTALLATION Thin-Clad Building Stone 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, Energy Code compliant (SB10/ ASHRAE 90.1/IECC), and barrier wall system installations. Construct Thin-Clad Building Stone 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 Building Stone. 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).

Construct Thin-Clad Building Stone 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.

Mortar joints between units in any direction should be consistent to the following thicknesses:

- ARRIS-stack: installed with dry joints between units, meaning there is no mortar used in the joints.
- Coastal: 10 mm (3/8")
- Midtown: 10 mm (3/8") OR dry joints

ARRIS-stack and Coastal are installed using a bond pattern, described as a percentage ratio, from the smallest to the largest sized units, as follows: 30:55:15 Bond.

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 or LATICRETE® Thin Brick Mortar
- LATICRETE® Pointing Mortar
- 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 and LATICRETE® Thin Brick Mortar are polymer-fortified mortars that meet the requirements of ANSI A118.4. Mortar should be applied to achieve 100% coverage. Spot-daub and ribbon methods are not appropriate for installation of Thin-Clad Building Stone. Mortar should be burned into the backs of the units and substrate to optimize bond.

Traditional masonry mortars (such as Type N or Type S 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 air barrier.

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.

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

AVAILABILITY AND COST

AVAILABITY Thin-Clad Building Stone is available worldwide.
Delivery times for orders will vary based on the complexity of what is required. 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.

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 masonry standards, within the guidelines of local building codes and as recommended by the manufacture. Complete warranty information is outlined on the Arriscraft standard form of Product Warranty.

MAINTENANCE

Clean Thin-Clad Building Stone 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 Building Stone. 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 and with pricing. Enquiries are addressed promptly and without obligation.

RELATED REFERENCES

Arriscraft distributes an integrated technical information system including:

- ARRISCRAFT•CADD: sample details which are available in .dwg, .dxf, and .pdf formats.
- ARRISCRAFT•DATA: product data sheets.
- ARRISCRAFT•NOTE: technical discussions with respect to building construction issues
- ARRISCRAFT•SPEC: master guide specification sections.

All of these technical resources are available to be downloaded from the Arriscraft web site at www.arriscraft.com.

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