

# Natural... **Thin** Stone Veneer



From ancient times to the present, natural stone has been a durable product used in construction, and an enduring symbol of wealth and beauty. Until recently, if a project called for the natural look of stone but could not support its weight or thickness, the options were limited to manufactured imitation stone.

More recently, machinery has evolved that can cut full size natural stone into thin stone veneers. Unlike manufactured stone veneers, natural thin stone is quarried and then cut into thin flat or thin corner pieces. The result is an exciting variety of colors, textures, sizes and shapes of thin stone that offer endless design opportunities.

**BEDFORD STONE**  
& MASONRY SUPPLY CORP

284 Adams Street, Bedford Hills, New York 10507 Phone: 914-666-6404  
[www.bedfordstone.com](http://www.bedfordstone.com)

Since 1925





*Pennsylvania Mosaic*



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*Blue Mountain Ashlar*



*Blue Mountain Mosaic*



*Byram Blue Mosaic*



*Corinthian Ashlar*



*Dover Ashlar*



*Dover Mosaic*



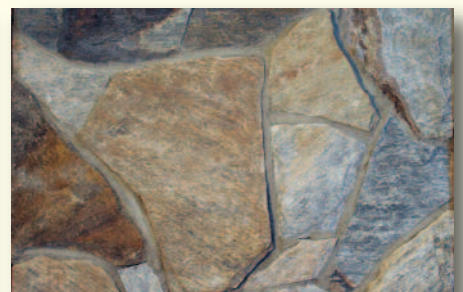
*Kiamichi Sq & Rect*



*LedgeStone*



*Cedar Hill Strip*



*Cedar Hill Mosaic*





*River Rock*



*Adirondack Mosaic*



*Corinthian Mosaic*



*7H: JYXgrbY Mosaic*



*Seabed Sq & Rect*



*Construction sample*

#### CHARACTERISTICS OF NATURAL THIN STONE VENEER

- Natural thin veneer stone is  $\pm \frac{3}{4}$ " to  $1\frac{1}{4}$ " thick. Thickness can vary depending on the density of the stone.
- In order to be considered a natural thin veneer stone, the weight of the stone must be 15 lbs or less per square foot as described in the 1997 Uniform Building Code.
- The weight of natural thin veneer stone can be as much as 75% less than that of full thickness veneer stones.

#### ADVANTAGES OF NATURAL THIN STONE VENEER

- Does not require load-bearing foundations
- A wide variety of styles, colors and textures available
- Good for interior and exterior applications
- Can be used in both new and remodel projects
- Endless design opportunities
- Can be applied over almost any surface
- Average thickness  $\pm \frac{3}{4}$ " to  $1\frac{1}{4}$ ", therefore thin stone veneers can be used where thickness is an issue
- Unlike manufactured stone, thin veneer stone can be customized and shaped without sacrificing the look or quality of the stone
- Easy to install
- Lightweight (thin stone weighs less than 15 lbs per square foot)
- Provides added property value
- Durable
- Low maintenance

## Product Guidelines

Thin Veneer Products may be installed over most any masonry surface or interior/exterior framed wall. All surfaces should be clean and dry and void of debris or loose material. The following information provides basic guidelines for the installation of Natural Thin Stone Veneer. Use this in conjunction with local building codes. Our resources include the Building Stone Institute, Champlain Stone and Masonry Technology Inc.

### Concrete Block , Brick, Poured Concrete Fig.1a

Natural Thin Stone veneer can be applied directly to any new or existing concrete block or brick surface. It is important to make sure that the existing surface and wall is sound and without defects, and that the surface has not been painted or sealed. In the case of a poured concrete wall, all form release chemicals should be either sandblasted or removed with a masonry detergent, or metal lath should be used. (Fig. 1b)

## Natural Thin Stone Veneer



### Framed Walls (concrete board) Fig 2

Unless mandated by local codes, no specific surface preparation is required.

### Framed Exterior Walls (plywood) Fig. 3

For exterior walls a non-corrosive metal lath is applied (see waterproofing instructions). All wood surfaces require the application of non-corrosive wire lath and a scratch coat of mortar cement (between 1/2" - 1" thick) before applying natural thin stone veneer.

### Metal Lath

Use self-furring, non-corrosive, expanded metal lath, 3.4 lbs per yard weight. Use Galvanized, barbed nails (or another quality anchor system such as galvanized screws and washers) at 6" vertical centers, in line with wall stud horizontal spacing. Place nails in furring groove or dimples to preserve 1/4" furring away from wall of metal lath. Overlap horizontal joints of lath a minimum of 1" and vertical joints a minimum of 1".

### Mortar Type

The use Specmix Stone Veneer Mortar Type "S" (polymer modified) or Mortar Type "S" with a bonding agent is suggested.

### Waterproofing Procedures

Listed below are general procedures used to waterproof areas before the installation of Natural Thin Stone Veneer. Waterproofing is an extremely important process which must meet or exceed all local building codes and BSI recommends that a highly qualified waterproofing company/contractor handle this portion of the installation or knowledgeable mason subcontractor adhering to industry standard.

A moisture-resistant barrier can be applied to all vertical wood or moisture-sensitive backup walls. Overlap adjoining sheets of moisture barrier a minimum of 2" on horizontal joints and minimum 6" on vertical joints. It is recommended by Building Stone Institute to include a weep system (Masonry Technology Inc) behind an exterior installation of Natural Full Veneer and Natural Thin Stone Veneer.



Fig. 2

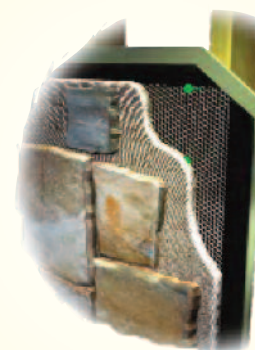


Fig. 3



## CALCULATING THE AMOUNT OF THIN STONE VENEER NEEDED:

1. Find the total square footage by measuring the width and height of the areas to be covered. Multiply the width x height to figure square footage required (if no corner pieces are needed).
2. Estimate the corners by measuring the length of wall corners to be covered. This equals the total lineal footage of corners required.
3. Finally, subtract 75% of the corner lineal footage calculation from the total square feet to be covered. This equals the number of square feet of flats required.

When ordering stone a **waste factor** needs to be considered. The waste factor could be anywhere from **10% to 25%** depending on the look thats trying to be achieved.

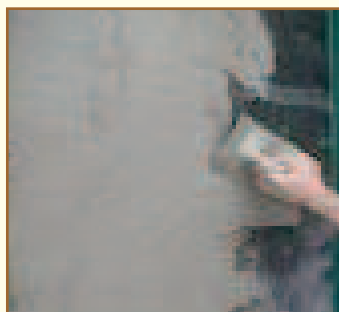
## RECOMMENDED TOOLS:

Brick Trowel, Brick Hammer, Notched Trowel, Flat Trowel, Jointer, Grout Bag, Masonry Brush, 4" Angle Grinder with a Diamond Blade, Dust Mask and Safety Glasses.

Materials needed to prepare for Natural Thin Veneer Stone will depend upon the type of surface to which the stone will be applied.



wire lath



mortar over lath



scratch mortar



cut or shape stone



apply mortar to stone



press in place



corner piece



more corners



stone shims



filling joints



filling joints



finishing joints

Note: Natural Stone varies in color, shade, texture and size. It also contains varying amounts of markings, veining lines and inclusions. Most stones will require some cutting and shaping in order to achieve a desired look. It may be beneficial to lay stones out on the ground before applying the mortar to get an idea of how the stone will fit together.

## **Stone. The Natural Choice.**

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