

# Boneyard Brick



**One mans trash is another mans ..... wall?  
Odd but true.**

Trikeenan has collaborated with Metropolitan Ceramics, one of the countries oldest and most respected producers of quarry tile and thin brick, to create the Boneyard Brick collection. 100% post-industrial thin brick glazed with recycled glaze.

Metropolitan's scrap brick and Trikeenan's waste glaze combined together, result in a beautiful range of glazed thin brick.

After producing brick and related products for well over 100 years, Metropolitan Ceramics has accumulated an impressive bone-yard of perfectly serviceable thin brick. They are there because of slight shifts in color, size and planarity. All of these defects make them perfectly suited for the handset method of installation. Trikeenan has been producing hand-crafted ceramic tile for 20 years and though a baby in comparison, has accumulated an impressive amount of "scrap " glaze waste from our process as well.

What do you get when you combine two scrap products? Usually not something beautiful, Boneyard Brick is a unique exception!

## USAGE

Thin brick has innumerable uses for interior and exterior wall applications. Glazed thin brick has the added advantage of being suitable for wet areas such as commercial kitchens, bathrooms, pools and spas.

Benefits of glazed thin brick over non-glazed thin brick include:

- Sanitary
- Low maintenance
- Impermeable



**METROBRICK**  
ARCHITECTURAL THIN BRICK  
Founded 1906

## Colors

Boneyard Bricks are available in 15 reclaimed glaze colors



MBS90  
HIBERNATION



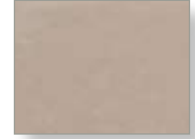
MBS240  
HARVEST



MBRE180  
WINTER HILLS



MBRE160  
FROST



MBRE210  
BLIZZARD



MBRE100  
SQUALL



MBRE135  
ACORN



MBRE155  
SMOKE



MBRE140  
COLD FRONT



MBRE150  
CRISP



MBRE110  
BARK



MBS300  
CINNAMON



MBRE170  
HUBBARD SQUASH



MBRE215  
BIG BLUE



MBRE195  
PLUM

## Sizes

All sizes are 5/8" thick



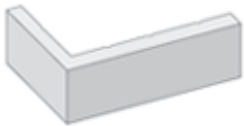
*Modular*  
2 1/4 x 7 5/8  
7 pcs/sq ft



*Norman*  
2 1/4 x 11 5/8  
4.6 pcs/sq ft



*Utility*  
3 5/8 x 11 5/8  
3 pcs/sq ft



*Modular Corner*  
2 1/4 x 3 5/8 x 7 5/8



*Norman Corner*  
2 1/4 x 3 5/8 x 11 5/8



*Modular Edge Cap*  
2 1/4 x 3 5/8 x 7 5/8



*Norman Edge Cap*  
3 5/8 x 2 1/4 x 11 5/8

All brick is 5/8" thick.  
Custom sizes and  
colors are also  
available.

## Socially Responsible & LEED Recognized Features

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From the viewpoint of the environment, the Boneyard Brick collection provides several features you can be proud to use. Please refer to our LEED's specific document for LEED accreditation recommendations for your LEED AP.

## Reusing and Energy Efficient

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- Boneyard brick contains 100% post-industrial waste brick from Metropolitan Ceramics boneyard and 95% pre-consumer recycled glaze content from Trikeenan's NY factory.
- Trikeenan's Reclamation glazes are made up from captured and reclaimed waste glaze on a pre-consumer level. Using a closed loop system Trikeenan traps all glaze sludge left over from glazing other ceramic tile collections. Clean water in, clean water out.
- Unfired clay and fired scrap is reground by Metropolitan into their brick.
- Our fired scrap is used by our local towns in making roadbeds.
- We use the most energy efficient equipment available.

## Environmentally Friendly

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- Trikeenan uses water based glazes, eliminating emissions of VOC's during manufacturing and resulting in a tile that is 100% VOC free.
- Made in the USA reducing the ecological impact of shipping from factories across the world.
- Long lasting durability equals low carbon footprint
- If you are located in the Northeastern US, the relative proximity of our factories to your job-site provides regional appeal

## Sustainability

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- Because Boneyard Brick's absorption is less than unglazed brick or full bed brick, spalling and efflorescence are reduced or eliminated. The building façade or interior walls can basically last forever.
- With the thin brick attached to the wall system, minor repairs require only the removal of the affected bricks. Full bed brick building repairs are much more costly and difficult.

## Test Results

ASTM Specification	Test	Avg. Standard	Boneyard Brick
Absorption	ASTM C-373	Max. 5%	<1.8%
Freeze - Thaw	ASTM C-1026	Min. 50 Cycles	Passed 3,000 Cycles
Chemical Resistance	ASTM C-650	Not Affected	Not Affected
Compressive Strength	ASTM C-67	8,000 lbs/sq.in	10,000 lbs./sq. in.
Shear Bond Strength to Portland Cement	ASTM C-482	Min. 50 psi	>150 psi
Modulus of Rupture	ASTM C-67	250 lbs/sq.in	>500 lbs./sq. in.

## Thin Set & Mortar Set Installation

This section is intended as an informational resource to aid in specifying Boneyard Brick. Please refer to specific installation and substrate product guides for instructions on using those specific products.

· Boneyard Brick is a thin, fired and glazed clay unit used as a wall covering and can be either thin-set or mortar-set in the field using traditional tile setting and grouting methods.

· Boneyard Brick can be used on a variety of interior and exterior wall substrates such as concrete, concrete unit masonry, gypsum sheathing, cementitious backer board, and plywood.

· Note: Code requirements for the installation of thin brick will vary from one municipality to the next. Boneyard Brick should be installed according to ANSI standards and local codes as they apply. Use only reputable installers and the correct installation products to suit the application.

· A typical specification to assure the use of Trikeenan's Boneyard Brick on your next job should be written as follows:

- o Thin brick shall be Boneyard Brick as manufactured by Trikeenan Tileworks, Hornell, NY, 14843. Customer Service: 1-603-355-2961
- o The body composition shall be of the finest shales and clays producing a uniform dense body.
- o Color(s) shall be:\_\_\_\_\_
- o Sizes(s) shall be:\_\_\_\_\_
- o Test results shall be available upon request.
- o Mix bricks from several cartons for best shading during installation.

### FOR THIN SET AND MORTAR SET

· The recommended installation methods in the Tile Council of America's "Handbook for Ceramic Tile Installation", and ANSI (American National Standards Institute) standards should be followed.

· TCA installation methods TCA W201 and TCA W202 are recommended for exterior applications.

· Methods TCA W211, W221, W222, W231, W241, and W244 may be used for interior applications and may be used for exterior applications when appropriate precautions are taken.

· These exterior cautions include flashing, expansion joint placement, and consideration for the particular climate conditions and exposure.

## LEED

The interesting information below is provided by Metropolitan Ceramics with regard to the advantages of thin brick over full brick, and the contribution thin brick plays in the market towards helping projects attain LEEDs points. This information holds true for Trikeenan's Boneyard Brick aswell:

“Brick is green based on plentiful materials, close proximity to the site, and the thermal mass effect created by the thick wall of ‘baked dirt’. But is full bed depth brick ‘greener’ than thin brick?

1) Like full brick, thin brick is ‘baked dirt’ but requires 80% less ‘plentiful material’, namely shale and clay. When thin brick is produced in a split tile method as opposed to producing a full brick and cutting off the thin face; material and energy savings can be up to 80%.

In everyday language: 1 full brick = 4 thin bricks.

If you designed your next building with 24,000 sq ft of thin brick versus full brick (168,000 pieces), you would save:

- a) 300 tons of raw materials will never be excavated from our planet.
- b) 500 mmbtu's of natural gas will not be required (enough to heat your home for 8 years).
- c) More than 8 semi trucks will not be dispatched on our roads.
- d) 425 gallons of diesel fuel will never be used (based on 250 mile one way trip).

2) Regardless of shipping distance, one truck load of thin brick will carry 44,000 more pieces – approximately 6,300 more useable square feet.

The 500 mile ‘rule’ is a formula to determine if 1, 2 or more points are awarded when the building's materials originate from within 500 miles of the project site.

· In order to gain 1 point, you must procure material totaling 4.5% of the total building costs from local resources. The formula as stated by USGBC is: 10% of the total building material costs, which is defined as 45% of the total building cost ( $\times 10\% = 4.5\%$  of the total building cost).

· 2 points are awarded for 20% local material usage (9% of total building costs) and an additional point will be gained (in the Innovation in design category) when 40% local material is met (18% of the total building costs).

How does this affect your exterior wall choice? Which material is greener?

According to the USGBC, Thin brick will give you 1 Innovative in Design point, regardless of distance from the manufacturing plant to the project site. The overall wall system will determine the total contribution to the local material category.

## **THIN BRICK WEIGHT ADVANTAGE -**

Boneyard Brick weighs @ 20% of full bed brick

- Metropolitan Ceramics uses 20% of the raw material - clay and shale - to produce.
- It only takes 20% of the trucking to get the raw material from the mine to the factory.
- It only uses 20% of the amount of fuel (normally natural gas) to fire thin brick.
- Kiln emissions from thin brick are 20% of full bed brick.
- Delivery of finished thin brick can be done on any type of truck (Flat-bed, Box etc), allowing back hauls. Full bed brick delivery trucks are normally owned by the brick manufacturer and haul empty back to the brick plant.
- Trucks hauling full bed brick normally carry 12,000 bricks. Trucks hauling thin brick typically haul over 60,000 bricks.
- Special cuts and sizes are available thus saving shipping of full pieces that have to be cut at the job site and the excess discarded in landfills.

## **SITE DISTURBANCE**

- No special or additional foundation is required for the structural support of Boneyard Brick.
- The weight of Boneyard is engineered in the wall system. Full bed brick requires additional foundation for its support, requiring additional steel and concrete.
- Post installation clean-up for thin brick is significantly less than full bed brick. Little or no cleaning agents are required at the jobsite when using thin brick.