



Thin Brick for Precast and Tilt-Up



Product Listing

BY GLEN-GERY

Glen-Gery Thin Brick for Precast and Tilt-Up

Glen-Gery provides many different types of thin brick, including thin brick that meet the Precast/Prestressed Concrete Institute (PCI) physical property specifications for precast applications.



All brick included in this document meet the PCI physical property requirements.* Please consider the brick listed in this document as a starting point when considering potential thin brick for precast. Other Glen-Gery thin brick may be considered if a precast/tilt-up company is willing to waive some of the more stringent specifications or requirements. Contact the manufacturing plant directly to clarify any concerns regarding use of Glen-Gery thin brick not included in this document for precast/tilt-up applications.



ITEMS TO CONSIDER:



Dimensional Tolerance Requirements

While many Glen-Gery brick may be used successfully in precast applications, some Glen-Gery thin brick are not typically recommended for such applications because they do not meet PCI specifications that require face size dimensional tolerances of +0, -1/16 in. for 8 in. brick and +0, -3/32 in. for dimensions greater than 8 inches. The length of all thin brick included in this document can be ground to meet these tolerances. Ground edges will not match the texture or finish of the finished faces. Rubber liners, typically used in repetitive precast elements, may allow larger thin brick dimensional variation and deeper edge texture. Other techniques have also been used by precast companies to allow the use of thin brick with larger dimensional variation than included in this document.



Cleaning Requirements

Although precast companies may make exceptions, finished precast thin brick walls are typically cleaned with 1,000 psi or greater pressures. Thin brick included in this document can be cleaned with 1,000 psi pressures, when complying with the Brick Industry Association's and/or Glen-Gery's cleaning recommendations. Some cleaning solutions, as well as release agents, retarders, accelerators or other chemicals may affect the finished color or properties of the thin brick and are not the responsibility of Glen-Gery. Test panels should be inspected prior to pouring project panels.



Thin Brick Back Surface Texture

PCI specifications include a scored, combed, wire roughened, ribbed, keybacked, or dovetailed back surface texture, to ensure tensile bond (pullout) strength of greater than 150 psi when pulled from concrete after freeze/thaw testing. The Hanley Eastline Series thin brick include a dovetail slot on the back surface. Glen-Gery cut thin brick are normally cut to a 3/4 in. thickness and include a relatively flat back.



Cutting Requirements

Some light surface colored brick with a red body cannot be cut into thin brick without discoloring. Therefore, light colored brick with a shale body that Glen-Gery would not recommend processing as thin brick have not been included in this document.

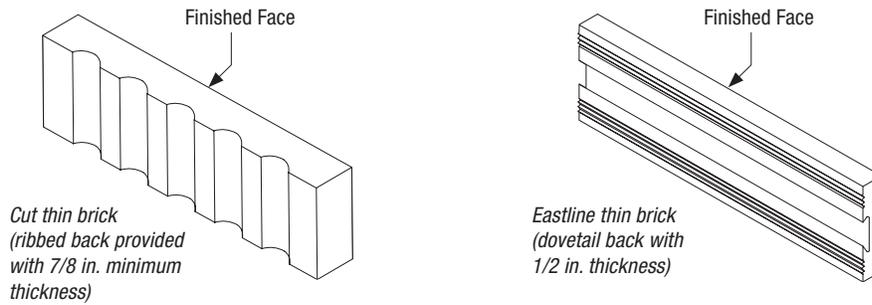
Full brick can be cut to thin brick with a thickness of 7/8 in. or greater to create a ribbed back surface to meet PCI Specifications. (See figure 1.) **Glen-Gery has tested and proven that Glen-Gery flat backed thin brick can provide more than the minimum 150 psi bond strength required after freeze/thaw testing.** Flat backed brick may be accepted on a project by project basis.

If you have any further questions please contact your Glen-Gery Representative.

The following Glen-Gery thin brick may be considered for use in precast/tilt-up applications and can be manufactured to meet PCI physical property requirements* and withstand the 1,000 psi pressure typically used to clean the thin brick surface of precast walls.

*Listed in the 3rd edition of the *Architectural Precast Handbook*.

FIGURE 1



Both Eastline Brick and cut units are available to meet PCI Specifications. Eastline includes a dovetail while Glen-Gery thin brick cut to 7/8 in. or thicker include a ribbed back.

This list includes the 1/2 in. thick Eastline thin brick series from Hanley, as well as thin brick cut from full brick. Cut thin brick thicknesses available include the typical 3/4 in. thickness as well as thicker units when required.

Capitol Plant

Delmarva
Jefferson Blend
Louisa Red
Mason Gold
Prince William Red
Sperryville

Hanley Plant

Cut thin brick (3/4 in. thick)

Uncoated
Glazed
Klaycoat
Engobe

NOTE:

All textures except Craftsman

Eastline thin brick (1/2 in. thick)

Available uncoated only

NOTE:

Smooth, wirecut and rough textures only

Iberia Plant

Adrian*
Autumn Harvest Blend
Iberia Black
Marysville*
Northridge
Ravenna*
Ridgeland
Rockford
Shelby*
Silverlake*
Sycamore*
Woodbury*
Wyandot*

* Includes edge treatment that may be objectionable in certain liners. These thin brick can be made without the edge texture if desired.

Marseilles Plant

Compton Ironspot
Navajo Red Velour
Red Flashed Velour
Red Velour
Saddle Velour
Sandstone Velour
Walnut Ironspot
Walnut Velour Brown
Wilmette Ironspot

Redfield Plant

Autumn Haze Ironspot Bladecut
Autumn Haze Classic
Autumn Haze Colonial
Autumn Haze Ironspot Colonial
Brown Classic
Cordovan Bronze Classic
Cordovan Bronze Colonial
Cordovan Bronze Ironspot Colonial
Flashed Camelot Ironspot
Maple Haze Classic
Maroon Classic
Oxford Ironspot Classic
Red Classic
Red Colonial
Red Ironspot Colonial
Terra Cotta Classic
Ultra Brown Classic

York Plant

200 Flashed Matt
213-Y Smooth
900 Red Matt
Allington
Allington Redburn
Baldwin
Benson
Blacktone
Blacktone Smooth
Blacktone Smooth Flashed
Braddock
Breckton
Brookhaven
Courtland
Crafton
Desert
Desert Redburn
Duquesne
Flashed Matt
Genesee
Glenolden
Harding Blend
Harding Blend Redburn
Harvard Smooth
Haverford
Hershey Blend
Hershey Blend Smooth
Hershey Blend Smooth Flashed
Inwood
Lansdowne
Laurelton
Old Brownstone
O'Flash
PS-57
Tonbridge
Tonbridge Redburn
Vineyard Blend
Wingate



GLEN-GERY THIN BRICK PROPERTIES	GLEN-GERY CLAY THIN BRICK
Thickness:	1/2 in. thick Eastline, 3/4 in. thick cut thin brick (+/- 1/8 in.), (1 in. to 1-3/4 in. thickness available with ribbed back)
Dimensional Tolerance Requirements:	+0, -1/16 in. within the lot for 8 in. units and +0, -3/32 in. for 12 in. units. (Ground edge available when required to ensure: + 0 in., 1/16 in. for 8 in. units and + 0 in., - 3/32 in. for 12 in. units)
Special Shapes:	Variation of shape from specified angle: +/- 1 degree variation of shape from specified angle
24 hr. Cold Water Absorption:	Absorptions average below 6% as tested per ASTM C67
Efflorescence:	Rated "not effloresced" as tested per ASTM C67
Out of Square:	+/- 1/16 in. as measured per ASTM C67
Warpage:	Consistent plane of +/- 1/16 in. as measured per ASTM C67
Modulus of Rupture:	MOR greater than 150 psi as tested per ASTM C67
Surface Coloring:	No observable difference in finish after 50 freeze-thaw cycles as tested per ASTM C67
Back Surface Texture: Eastline Thin Brick	1/2 in. thick with dovetail back
Back Surface Texture: Cut Thin Brick	3/4 in. back surface texture will be flat. Ribbed surface available with > 3/4 in. thickness

SHAPES

All Glen-Gery thin brick are available as flats, corners and edge caps. Additional special shapes, including half-flats and half-shapes, are also available.

WAX COATING

All Glen-Gery thin brick are available with wax coatings applied to finished faces. Waxed thin brick should be stored in a cool, clean and dry area.

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