

TECHNICAL DATA

Glen-Gery Thin Brick - Precast Applications



Glen-Gery Thin Brick specifically manufactured for precast wall panels meet or exceed the Precast/Prestressed Concrete Institute specifications as shown below. Test results are available upon request.

Thickness: Not less than 1/2 inch (13mm) nor more than 1 inch (25mm) thick
Glen-Gery Thin Brick are 3/4" thick (+/- 1/8")
1" – 1-3/4" thickness available with ribbed back

Dimensional Tolerance Requirements:

Plus 0 inches, minus 1/16 inch for ≤ 8 inches and
Plus 0 inches, minus 3/32 inch for > 8 inches (measured per ASTM C67)
Glen-Gery Thin Brick: +/- 1/16" within the lot for 8" (7-5/8") units, +/- 7/32 for 12" (11-5/8") units
Ground edge available when required to ensure: PCI tolerances for the lot manufactured

Special Shapes: Variation of Shape from Specified Angle: Plus or minus 1 degree.
Glen-Gery Thin Brick: +/- 1 degree variation

24 hr Cold Water Absorption:

Maximum 6 percent (tested per C67)
Glen-Gery Thin Brick absorptions average below 6%

Efflorescence: Rated "not effloresced." (tested per C67)
Glen-Gery Thin Brick: rated "not effloresced"

Out of Square: Plus or minus 1/16 inch (measured per C67)
Glen-Gery Thin Brick: +/- 1/16"

Warpage: Consistent plane of plus 0 inches, minus 1/16 inch (measured per C67)
Glen-Gery Thin Brick: +/- 1/16" – tighter tolerances available on specific brick

Tensile Bond Strength:

Not less than 150 psi (1.0MPa) (tested per modified ASTM E488)
Glen-Gery Thin Brick: Testing indicates bond strength well above requirements (>250 psi average) for units with flat back (cut face)

Freeze-Thaw Resistance:

No detectable deterioration (spalling, cracking, or chafing)
(tested per ASTM C666 Method B modified to withstand 300 cycles)
Glen-Gery Thin Brick: Testing indicates bond strengths well above requirement after 300 cycles (>250 psi average) for cut (flat back) units with no 'detectable deterioration'

Modulus of Rupture:

Not less than 250 psi (1.7 MPa) (tested per ASTM C67)
Glen-Gery Thin Brick: MOR greater than 1,000 psi

Chemical Resistance:

Rated "not affected" (tested per ASTM C650)
Glen-Gery Thin Brick: "not affected"

Surface Coloring:

Brick with surface coloring shall withstand 50 cycles of freezing and thawing per ASTM C67 with no observable difference in applied finish when viewed from 10 feet (3m).
Glen-Gery Thin Brick: no difference after 50 cycles

Back Surface Texture:

[Scored], [Combed], [Wire roughened], [Ribbed], [Keybacked], [Dovetailed]
Glen-Gery Thin Brick – 3/4" back surface texture will be smooth.
Ribbed surface available with > 3/4" thickness