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American National Standard Specifications for Glass Tile

Secretariat
Tile Council of North America, Inc.

Approved
American National Standards Institute, Inc. (ANSI)

Abstract
This publication presents voluntary standard specifications for glass tile. It lists and defines various types, sizes, and physical properties for glass tile, including large format, mosaic, miniature mosaic, cast, fused, and low temperature-coated glass tile. This standard provides quality criteria for buyers, specifiers, installers, manufacturers, and the public in general. It is intended for reference or inclusion in the glass tile section of product specifications and contracts.
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Published by Tile Council of North America.
Foreword

This foreword is not part of American National Standard A137.2.

This voluntary standard lists and defines various types, sizes, and physical properties for glass tile. It is intended as a guide to aid the public, manufacturers, distributors, specifiers, architects, tile contractors, and other businesses and professionals in the tile industry.

While the existence of this standard does not in any respect preclude anyone, including those who have accepted it, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to this standard, producers of glass tile made in conformance with this standard are encouraged individually to indicate such conformance in advertising, promotion, and labeling.
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<td>Standard Test Method for Determination of Breaking Strength and Modulus of Rupture of Ceramic Tiles and Glass Tiles by Three-Point Loading</td>
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## A137.2 — AMERICAN NATIONAL STANDARD SPECIFICATIONS FOR GLASS TILE

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1.0 Purpose

These specifications serve as a reference standard for buyers, specification writers, and installers of Standard Grade glass tile.

2.0 Scope

These Specifications describe manufacturing styles, body types, sizes, and physical properties for Standard Grade glass tile; the basis for acceptance and methods of testing before installation; the marking of packaging and certification of tile; and definition of terms employed in these specifications.

NOTE: At the current time, there are no glass-specific thin-set mortar standards for the installation of glass tiles. While many suitable mortars are available, as noted in ANSI A108.15 and ANSI A108.16, “not all ANSI A118.4 latex modified thin-sets, whether spray dried polymer or two part bonding mortar systems, are suitable for installing glass tiles. It is the responsibility of the specification writer and the installer to confirm with the glass tile and setting material manufacturers the use of required setting materials, methods, and cure times.”

NOTE: In this Standard, American and SI measurement units are provided. The value not in parenthesis shall be considered the normative reference, and the value in parenthesis is included for informative reference only.

3.0 Definition of Terms

Blended Body Types: Sheets blended with varying glass tile body types or blended with other tiles such as ceramic, natural stone, porcelain, and metal tile. Only glass units within these sheets are subject to this specification.

Cast Glass Tile: Glass tile formed in a liquid state at 1600°F (871°C) or higher.

Ceramic Tile: A ceramic surfacing unit, usually relatively thin in relation to facial area, having either a glazed or unglazed face and fired above red heat in the course of manufacture to a temperature sufficiently high to produce specific physical properties and characteristics.

Low Temperature – Coated Glass Tile: Sheet glass altered between room temperature and 1022°F (550°C).

Fused Glass Tile: Sheet glass altered through heat between 1023°F (551°C) and 1599°F (870°C).

Glass Panels: Glass modules with both a facial surface area and backside surface area > 3716 cm² (576 in²) (> 930 cm² (144 in²) for cast glass) or containing any single edge exceeding 24 inches (61 cm) in length [12 inches (30.5 cm) for cast glass]. Units such as these are not subject to this specification.

Glass Tile: A tile having an overall non-crystalline microstructure with SiO₂ as the primary constituent and manufactured by one or more of three primary processes: cast, fused, or low temperature-coated.

Hybrid Ceramic Tile: A tile having a crystalline microstructure body and a non-crystalline microstructure.