

Testing Checklist

ANSI A137.2 Specification for Glass Tile



International Product Assurance Laboratories (formerly  *Product Performance Testing Laboratory*) offers the full scope of testing to meet the requirements specified in A137.2:

✓ Large Format Glass Tile (Table 5) – Tiles between about 9 in² and 576 in² (144 in² for cast glass)

- ASTM C499, C485, C502 Facial and thickness dimensions, warpage, and wedging
- ANSI A137.2, section 7.6 Mounting Variation (for mounted tiles)
- ASTM C1505 Breaking Strength/MOR
- ASTM C373 Water Absorption
- ASTM C424 Craze Resistance
- ANSI A137.2, section 7.7 Bond Strength
- ASTM C650 Chemical Resistance
- ANSI A326.3 DCOF (tiles intended for floor applications)
- ASTM C1026 Resistance to Freeze/Thaw Cycling (tiles intended for freeze/thaw conditions)
- ANSI A137.2, section 7.9 Thermal Shock Resistance
- ASTM C1378 Stain Resistance
- ASTM C609 Color Uniformity (VO tiles only)
- ASTM C1027 Visible Abrasion Resistance
- ASTM C372 Linear Thermal Expansion

✓ Mosaic Glass Tile (Table 6) – Tiles between 0.68 in² and about 9 in²

- ASTM C499, C485, C502 Facial and thickness dimensions, warpage, and wedging
- ANSI A137.2, section 7.6 Mounting Variation (for mounted tiles)
- ASTM C648 Breaking Strength (for tiles edges greater than 0.75 in)
- ASTM C1505 Breaking Strength/MOR (for tiles with an edge less than 0.75 in)
- ASTM C373 Water Absorption
- ASTM C424 Craze Resistance
- ANSI A137.2, section 7.7 Bond Strength
- ASTM C650 Chemical Resistance
- ANSI A326.3 DCOF (tiles intended for floor applications)
- ASTM C1026 Resistance to Freeze/Thaw Cycling (tiles intended for freeze/thaw conditions)
- ANSI A137.2, section 7.9 Thermal Shock Resistance
- ASTM C1378 Stain Resistance
- ASTM C609 Color Uniformity (VO tiles only)
- ASTM C1027 Visible Abrasion Resistance
- ASTM C372 Linear Thermal Expansion

✓ Miniature Mosaic Glass Tile (Table 7) – Tiles less than 0.68 in²

- ASTM C499 Facial and thickness dimensions
- ANSI A137.2, section 7.6 Mounting Variation (for mounted tiles)
- ANSI A137.2, section 7.8 Compressive Strength
- ASTM C373 Water Absorption
- ASTM C424 Craze Resistance
- ANSI A137.2, section 7.7 Bond Strength
- ASTM C650 Chemical Resistance
- ANSI A326.3 DCOF (tiles intended for floor applications)
- ASTM C1026 Resistance to Freeze/Thaw Cycling (tiles intended for freeze/thaw conditions)
- ANSI A137.2, section 7.9 Thermal Shock Resistance
- ASTM C1378 Stain Resistance
- ASTM C609 Color Uniformity (VO tiles only)
- ASTM C1027 Visible Abrasion Resistance
- ASTM C372 Linear Thermal Expansion

✓ Additional considerations

- Additional testing may be needed for characterizing the slip resistance of the tile surface, such as German ramp testing to DIN 51130.
- Place a testing order at www.TCNAtile.com or contact us to discuss your custom testing needs.

