



Testing Checklist

ANSI A137.3

Gauged Porcelain Tile and Tile Panels/Slabs



International Product Assurance Laboratories offers the full scope of testing to meet the requirements specified in A137.3:



Gauged Porcelain – 5.0 – 6.5 mm thick (Table 4)

- ☐ ASTM C499, C502 Facial and thickness dimensions and wedging
- ☐ ASTM C1505 Breaking Strength/Modulus of Rupture
- ☐ ASTM C627 Robinson Floor Test
- ☐ ANSI A137.3, Section 8.5 Dry Bond Strength
- ☐ ANSI A137.3, Section 8.5 Wet Bond Strength (Back-layered only)
- ☐ ASTM C373 Water Absorption
- ☐ ANSI A137.3, Section 5.3.1.2.2 Back-Layer Saturation (Back-layered only)
- ☐ ASTM C1378 Stain Resistance
- ☐ ASTM C650 Chemical Resistance
- ☐ ANSI A326.3 DCOF (Tiles intended for floor applications)
- ☐ ASTM C609 Color Uniformity (VO tiles only)
- ☐ ASTM C424 Craze Resistance (Glazed tile only)
- ☐ ASTM C484 Thermal Shock Resistance
- ☐ ASTM C372 Thermal Expansion (Tile panels/slabs only)
- ☐ ASTM C1026 Resistance to Freeze/Thaw Cycling (Tiles intended for freeze/thaw conditions)
- ☐ ASTM C1243 Abrasion Resistance



Gauged Porcelain – 3.5 – 4.9 mm thick (Table 5)

- ☐ ASTM C499, C502 Facial and thickness dimensions and wedging
- ☐ ASTM C1505 Breaking Strength/Modulus of Rupture
- ☐ ANSI A137.3, Section 8.5 Dry Bond Strength
- ☐ ANSI A137.3, Section 8.5 Wet Bond Strength
- ☐ ASTM C373 Water Absorption
- ☐ ANSI A137.3, Section 5.3.1.2.2 Back-Layer Saturation (Back-layered only)
- ☐ ASTM C1378 Stain Resistance
- ☐ ASTM C650 Chemical Resistance
- ☐ ASTM C609 Color Uniformity (VO tiles only)
- ☐ ASTM C424 Craze Resistance (Glazed tile only)
- ☐ ASTM C484 Thermal Shock Resistance
- ☐ ASTM C372 Thermal Expansion (Tile panels/slabs only)
- ☐ ASTM C1026 Resistance to Freeze/Thaw Cycling (Tiles intended for freeze/thaw conditions)



Additional considerations

- ☐ Additional testing may be needed for characterizing the slip resistance of the tile surface, such as German ramp testing to DIN 16165 (formerly DIN 51130).
- ☐ ISO methods available for compliance with international specifications.
- ☐ Place a testing order at www.TCNAtile.com or contact us to discuss your custom testing needs.

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Microbiological testing also available
Tests to determine the antimicrobial and antiviral capabilities of a surface.