

## LOW TEMPERATURE APPLICATIONS

Zodiaq® quartz surfaces are suitable for low temperature exposures including applications where the product is exposed to freeze-thaw cycling.

Materials that readily absorb moisture are especially prone to cracking from expansion and contraction when exposed to temperature swings between subfreezing and above-freezing conditions. Zodiaq® is a nonporous product and has low moisture absorption. As a result, Zodiaq® is less subject to cracking than more porous materials like natural stone, when exposed to freeze-thaw conditions. Zodiaq® performance is categorized as "Unaffected" (i.e., no damage) in accordance with ASTM C1026, Standard Test Method for Resistance of Ceramic Tile to Freeze-Thaw Cycling, making it suitable for cold food service applications as well as for outdoor storage. When storing Zodiaq® outdoors, special precautions must be taken to prevent damage; refer to slab storage bulletin.

The coefficient of thermal expansion for Zodiaq® is relatively small,  $1.45 \times 10^{-5}$  in/in/°C, however this value should be taken into account for design scenarios where expansion and contraction are anticipated to occur.

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QUARTZ SURFACES



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