

# TILE INSTITUTE of AMERICA

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TIA's Client: 20201228 BS

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Tile: **Cascade Series**

CS-291 - LAGOON 2X2	CS-691 - LAGOON 6X6	CS-691 DECO - LAGOON 6X6	CS-691 SBN - LAGOON 6X6
CS-292 - WATERFALL 2X2	CS-692 - WATERFALL 6X6	CS-692 DECO - WATERFALL	CS-692 SBN - WATERFALL 6X6
CS-293 - RIDGE 2X2	CS-693 - RIDGE 6X6	CS-693 DECO - RIDGE 6X6	CS-693 - RIDGE 6X6
CS-295 - PEAK 2X2	CS-695 - PEAK 6X6	CS-695 DECO - PEAK 6X6	CS-695 SBN - PEAK 6X6
CS-296 - FOOTHILL 2X2	CS-696 - FOOTHILL 6X6	CS-696 DECO - FOOTHILL 6X6	CS-696 SBN - FOOTHILL 6X6

Conditions: New tiles were sent to TILE INSTITUTE of AMERICA in sealed manufacturer's boxes from client above and selected at random.

Specification: ASTM C 648

Source: Tiles submitted by Client to Laboratory and selected at random from unopened containers

## Report of Test

### **BREAKING STRENGTH (ASTM C 648)**

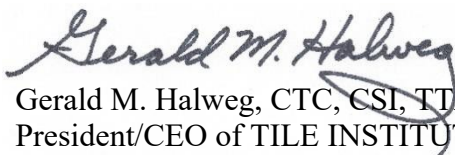
Standard Test Method for Breaking Strength of Ceramic Tile. This method provides the means for establishing whether or not this tile meets the strength requirements, which may appear in tile specifications. Tile strength is the force in pounds-force (or Newton's), as read from the pressure gauge, necessary to cause the tile to break. The load was applied at the rate of 1000 lbf/min. The tile samples were placed on a test fixture having three (3) supports located in a circle three and fifteen-thirty-seconds (3 15/32) inches in diameter with the load applied at the center as per specifications.

**Requirements:** ANSI A 137.1 (General) Breaking Strength. When tested as described in ASTM C 648, the average breaking strength for glazed wall tile shall be 90 and for glazed paver tile 250 pounds or greater.

The tile types and categories listed above yielded test values greater than Industry's requirements.

Test Results: **Passed**

Sincerely,

  
Gerald M. Halweg, CTC, CSI, TIA. Date: July 1, 2021  
President/CEO of TILE INSTITUTE of AMERICA