

# TILE INSTITUTE of AMERICA

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TIA's Client: 20201228 BS

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Tile: **Harmony Series**

HM-106 - COBALT BLUE 1X1	HM-141 - BAHAMAS BLUE 1X1	HM-210 - ROYAL BLUE 2X2	HM-310 - SAPPHIRE 3X3
HM-109 - BLACK 1X1	HM-143 - ALT BLUE 1X1	HM-213 - TERRA BLUE 2X2	HM-313 - TERRA BLUE 3X3
HM-110 - ROYAL BLUE 1X1	HM-144 - PACIFIC BLUE 1X1	HM-220 - ELECTRIC BLUE 2X2	HM-320 - ELECTRIC BLUE 3X3
HM-113 - TERRA BLUE 1X1	HM-145 - MALIBU BLUE 1X1	HM-305 - MARBLED BLUE 3X3	HM-340 - NAVY BLUE 3X3
HM-120 - ELECTRIC BLUE 1X1	HM-205 - MARBLED BLUE 2X2	HM-306 - COBALT BLUE 3X3	RM-130 - BISCAYNE BAY 1X1
HM-124 - SKY BLUE 1X1	HM-206 - COBALT BLUE 2X2	HM-105 - MARBLED BLUE 1X1	RM-132 - BLUE PEARL 1X1
HM-140 - NAVY BLUE 1X1	HM-209 - BLACK 2X2	HM-309 - BLACK 3X3	

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

## **TEST CONDUCTED:**

### **RESISTANCE TO FREEZE-THAW CYCLING (ASTM C 1026)**


Standard Test Method for Measuring the Resistance of Ceramic Tile to Freeze-Thaw Cycling.

Ten Specimens were placed into the freezing chamber to 0°F (-18°C) within a period of 6-8 hours and placed into water that was at a temperature from 50° to 60°F (10° to 16°C) for ≥30 minutes.

**Requirements:** After 15 Cycles The units are to show no evidence of Failure to Body or Surfaces. No evidence of Disintegration. Damage to the specimen is reported with the abbreviation as follows: Cz = crazing, Ch = Chipping, Sp = spalling, Bc = body checks, Cr = cracks.

Results: All units described above have **PASSED**

Sincerely,



Gerald M. Halweg

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