



TILE INSTITUTE of AMERICA

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July 24, 1995
Client: 50733.3

Mr. Bob Galganski
GLOBAL TECHNOLOGY SYSTEMS
Badger Cork Division
26112 110th Street
Trevor, Wisconsin 53179

Subject: **Floor System Performance Level** as evaluated in compliance to ASTM C 627-88 Modified †, Standard Method for EVALUATING CERAMIC FLOOR TILE INSTALLATION SYSTEMS USING THE ROBINSON-TYPE FLOOR TESTER.

Floor Performance Rating Criteria:

RESIDENTIAL: System shall pass cycles 1 through 3, (900 revolutions each).
LIGHT COMMERCIAL: System shall pass cycles 1 through 6, (900 revolutions each).
MODERATE: System shall pass cycles 1 through 10, (900 revolutions for 1-8 each, 450 revolutions for cycles 9 & 10 each).
HEAVY COMMERCIAL: System shall pass cycles 1 through 12, (900 revolutions for 1-8 each, 450 revolutions for cycles 9-12 each).
EXTRA HEAVY COMMERCIAL: System shall pass cycles 1 through 14, (900 revolutions for 1-8 each, 450 revolutions for cycles 9-14 each).

Construction configuration:

Tile - 8 x 8 x 1/2 inch glazed Paver tile.
Grout - Commercially prepared Portland Cement sanded Colored Grout with latex.
Bond Coat - "Latex Modified" commercially prepared Portland Cement Mortar conforming to ANSI A 118.4.
Resilient Underlayment: **StressCORK™ 3/64" Cork by GTS**
Bond Coat - Organic Adhesive conforming to ANSI A136.1 Type I
Concrete subfloor - Six inch thick concrete slab, 2,500 psi

Procedure:

The floor system was constructed on the Robinson Floor Tester and cured for not less than 28 days according to the standards. The number of tile and grout joints were counted that were under the wheel wear test pattern. The tiled surface was examined before, during and after each cycle and recorded with the width of crack bridging ability as reported in the attached test results.

† Split Substratum- The slab is designed to separate uniformly at 0.001 inch intervals. The substratum is opened to simulate a crack as measured at 0.004, 0.012, 0.020, 0.030 and 0.040 inch with 300 pounds of weight per soft rubber wheel for 900 revolutions. Then the hard rubber wheels followed by the steel wheels are installed and the above series are performed for higher performance ratings.



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