TILE INSTITUTE of AMERICA
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April 12, 1996
Client:60417.3/40970

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

Product: **Underlayment:** **StressCORK™ 3/64 inch thick Cork by "GTS"**

Tile: 4 x 4 x 1/4 inch unglazed ceramic white bisque tile
Bond Coat: **Latex hydraulic Portland Cement bonding mortar; Grani/Rapid by MAPEI®** Commercially prepared Mortar conforming to **ANSI A 118.4.**
Nominal Dimensions: **3/64 inch Thick**

Subject:
Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement.
Designation: **ASTM C 482 Modified** (Bond coat was prepackaged conforming to ANSI A118.4, not pure Portland cement as standard)

Requirements:
Standards for Latex Modified Portland Cement Mortar ANSI A118.4 after 28 day cure. The average bond strength of the mortar shall be **300 psi or greater.**
Uniform Building Code requires 50 psi or greater for adhered veneer tile.

Results: **BOND STRENGTH**

SAMPLE ID	PSI	Compliance	Load	Failure Description
Control	202	Pass	3380	80% in Bond Coat, 20% to Tile
A	81	Pass	1310	Bond Coat : Cork
B	90	Pass	1380	Bond Coat : Cork
C	62	Pass	970	Bond Coat : Cork
D	90	Pass	1440	Bond Coat : Cork
E	75	Pass	1200	Bond Coat : Cork
Average:	80	Pass		For dry conditions only.
Range:			470	

Laboratory Test Conducted by:

Don Halvorson (Director of Testing)

Witnessed by:

Gerald M. Halweg, CTC, CSI, TTA. (President)