



Professional Service Industries, Inc.
Pittsburgh Testing Laboratory Division

October 14, 1992

Flaherty-Wick, Incorporated
110 Fifth Street
West Elizabeth, Pennsylvania 15088-0624

Attention: Mr. Jim Flaherty

Re.: Carbonation Test for PermaCrete Treated Concrete

From October 5 through October 7, 1992, we completed the carbonation tests on 4 concrete squares which were designed and cast in our laboratory on August 10, 1992. And 2 of the 4 concrete squares were treated with a single saturation PermaCrete coat not injected on August 24, 1992. Following a 42-day PermaCrete cure period, all 4 specimens were subjected to a 48-hour carbon monoxide exposure with the following results.

The first untreated specimen had carbonation penetration of .57 (57/100) inches as determined by microscopic examination in our laboratory in accordance with ASTM C856. The second untreated specimen had carbonation penetration of .63 (63/100) inches as determined by microscopic examination in our laboratory in accordance with ASTM C-856.

Both of the PermaCrete treated specimens had zero (0) carbonation penetration as determined by microscopic examination in our laboratory in accordance with ASTM C856.

Very truly yours,

PITTSBURGH TESTING LABORATORY DIVISION

A handwritten signature in black ink that reads 'C.A. Sherman'. The signature is written in a cursive, flowing style.

C. A. Sherman
Department Manager
Construction Services

CAS/mb