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DYESS-PETERSON TESTING LABORATORY, INC

PROFESSIONAL TESTING

• Amarillo, Texas 79101
P.O. Box 30699
(806) 372-4911 • Fax (806) 372-5552

• Lubbock, Texas 79424
5853 49th Street
(806) 785-8378 - Fax (806) 785-1959

temperature gun the flame was measured to be 300° F. Prior to flame exposure the front and back sides of the wall were measured to be 62° F.

The flame was allowed to burn at this spot for exactly one hour. During this time the originally gray colored wall glowed "orange" in this 5.5 inch section. At the end of the one hour time period the 5.5 inch section turned white in color. A section 8.5 inches wide and 7.5 inches tall extended out from the sides of the center of the 5.5 inch section. This extended section turned blackish brown in color. A crack 1/16" deep and 1/8" wide developed horizontally through the 5.5 inch section. Once the flame was removed the test surface of the wall measured a temperature of 959° F. At the 1" depth into the wall (still the cement section) the temperature was measured to be 690° F while at the 1" depth into the wall (actual block material) it was 448° F. The color at the 1" depth into the wall turned from gray to black while the 1" depth material was brown in color. The temperature of the back side of the wall remained at 62° F the duration of the test.

Eventhough primitive tools and methods were utilized and the procedure was performed exactly as described in ASTM E-119 it appears the Greenstar Blox performed as designed. If you have any questions, or if I can be of further assistance, please do not hesitate to call


Michael L. Copeland, P.E.

Respectfully submitted,

Report No.