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CLIENT: SUNGHYUN CHEMICALS CO., LTD

465 Chogeum-ro Geumwang-eup Eumseong-gun

Chungbuk, Korea

Test Report No: RJ3838P-10 Date: June 10, 2015

SAMPLE ID: Hicote ET Vermiculite SFRM SGS Korea File No; AYAA15-07869.

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special

sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on March 26, 2015.

TESTING PERIOD: April 27 thru May 6, 2015.

AUTHORIZATION: QAI Test Proposal SP-2014-081803 Rev.2 dated February 19, 2015 signed by June

Lee of SGS Korea Co., Ltd on February 23, 2015.

TEST REQUESTED: Compressive Strength Test per ASTM E 761-92 (Reapproved 2005), Standard Test

Method for Compressive Strength of Sprayed Fire-Resistive Material Applied to

Structural Members.

TEST PROCEDURE: The SFRM was applied to a 175 mm (7") wide x 600 mm (24") long x 1.5 mm (16

gage) thick galvanized steel plate at a uniform thickness of 22 mm following the manufactures specification. The test specimens were conditioned to constant weight for a minimum of 8 days at a temperature of $20^{\circ} \pm 5^{\circ}$ C and a relative humidity of $50 \pm 10^{\circ}$

5% prior to testing.

TEST RESULTS:

Test #	Density of SFRM (pcf)	Compressive Strength at 10% Deformation (psi)
1	20.3	35.2
2	20.6	35.4
Average	20.5	35.3

Tested By

Signed for and on behalf of QAI Laboratories, Inc.

David Royer Laboratory Technician Larry Burmer

Project Leader-Physical Testing

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THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED.