



Braun Intertec Corporation
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503-289-1778 Fax: 289-1918

Engineers and Scientists Serving
the Built and Natural Environments

August 6, 1997

Project EARX-97-0466
Report 05-087-2082

Mr. Steve Sayers
Polymaster, Inc.
10431 Lexington Drive
Knoxville, Tennessee 37939

Dear Mr. Sayers:

Re: Computed Thermal Resistance (R-factor) for your 8" x 12" x 16" masonry units, per your
Purchase Order Number 1939.

Item: 1 5/8" High x 11 5/8" Thick x 15 7/8" Long, 2-Cell Concrete Masonry
Unit
1 3/8" Face Shell, 1 1/4" - 1 3/8" Web Thickness. Density - 120 pcf.

Cell Fill: Polymaster R501 Plastic Form

Test Ref.: Braun Intertec Report Number 07-016-1575, ASTM C236 Steady State
Thermal Conductance Test of an 8' x 12" CMU Wall, 8" x 8" x 16" Units
with Cells Filled with Polymaster Plastic Foam (d = 0.65). Overall R-
factor - 11.05.

Computed thermal resistance of the 8" x 12" x 16" unit with cells filled with polymaster R501
plastic foam is 20.1 (ufactor - 0.049).

Computations were based on results of the test referenced above. Material dimensions and
properties and the following:

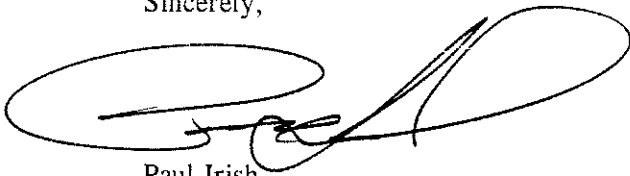
Table with 2 columns: Property and Value. Rows include CMU Density (120.0 pcf), Outside Air (15 mph vertical) (R = 0.17), Inside Air (still) (R = 0.68), Mean Inside Temperature (75°F), and Temperature Differential (50°F).

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All work was performed in compliance with Braun Intertec Q.C. Manual dated 02-23-94, Revision 1 and NDE Supplement dated 06-07-94, Revision 0.

If you have any questions or require additional testing, please do not hesitate to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul Irish". The signature is stylized with a large, sweeping loop on the left side and a smaller loop on the right side.

Paul Irish  
Technical Director

pi:sjg