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RADCO

RADCO TEST REPORT
Report No. RAD-1003
Project No. C-4109
Lab No. L-1315

THERMAL RESISTANCE PROPERTIES OF EXPANDED POLYSTYRENE KORFIL BLOCK INSERTS

Prepared for

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1.0 INTRODUCTION

At the request of Korfil., Inc., RADCO has performed thermal transmission testing (ASTM C-518) on specimens cut from 12"M (PCM) expanded polystyrene (EPS) Korfil Block Inserts.

2.0 TEST MATERIAL

Korfil, Inc. selected the above referenced inserts and shipped them to the RADCO physical testing laboratory in Gardena, California. Eight 12"M (PCM) EPS Korfil block inserts, were received by RADCO on November 14, 1989. The Korfil Block inserts were identified as 12"M (PCM) lot #11658 manufactured from Arco 35 MBK beads. RADCO cut the necessary test specimens from the above referenced EPS Korfil Block inserts.

3.0 TEST METHOD

Testing for thermal resistance was performed utilizing the Dynatech Rapid "k" heat flow meter in accordance with ASTM C-518 test procedures.

4.0 TEST RESULTS

The "k" and "R" values for the two specimens tested per ASTM C-518 are as follows.

(EPS) Korfil Block Insert - Lot #11658	@ 75°F mean temperature "k" per inch = 0.237 BTU/(hr·ft^2·°F)
Test performed 12/6/89	"R" per inch = 4.219 (hr·ft^2·°F)/BTU at a test density of 1.15 lb/ft^3, and thickness of 0.528 (Δ x)
(EPS) Korfil Block Insert - Lot #11658	@ 75°F mean temperature "k" per inch = 0.239 BTU/(hr·ft^2·°F)
Test performed 12/7/89	"R" per inch = 4.184 (hr·ft^2·°F)/BTU at a test density of 1.12 lb/ft^3, and thickness of 0.538 (Δ x)