Test Report No. 7191207707-MEC19/01a-FT
dated 11 Apr 2019

PSB Singapore

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SUBJECT:

Determination of thermal conductivitiy of MKS PIR: PIR Foam.

TESTED FOR:

Munkong Steel Co.,Ltd
1/348 Soi.Onnuch59/1, Sukhumvit77 Rd., Prawet, Prawet, Bangkok,
Thailand 10250

Attn: Thana Chaichanpanit

TEST METHODS:

1) ASTM C518 : 2017 Standard test method for steady-state thermal transmission properties by means of the heat flow meter.

2) The thermal conductivity of material was measured by using a heat flow meter calibrated with standard fibreglass sample of thickness of 25mm.

SAMPLE DESCRIPTION:

1 sample with nominal size of 300mmL x300mmW x 20mmTK was submitted on 05 Apr 2019 and claimed to be as follow:

Brand Name/Model:	MKS: MKS PIR100
Type of Product:	PIR Foam for insulation property
Type of Material:	MKS PIR: PIR Foam
Nominal Density:	38kg/m³ (spec 40±3kg/m³)

Photo 1: Sample as received, Side 1

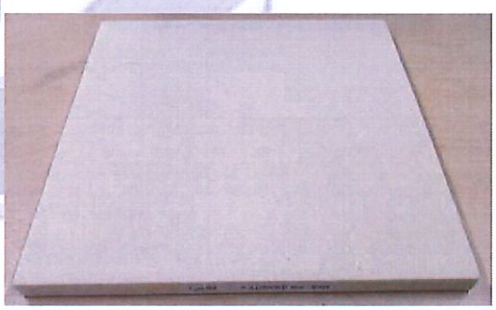

Photo 2: Sample as received, Side 2

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Accredited Laboratory SAC-SINGLAS

LA-2007-0380-A	LA-2007-0385-E	The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council. Inspections/Calibrations/Tests marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our inspection body/laboratory.
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Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221

TEST RESULTS:

Thermal Conductivity Test		
Test	**Unit**	**Sample**
a. Dimension of sample	mm	305 (L) x 301 (W) x 19 (TK)
b. Bulk Density	kg/m^3	35.07
c. Temperature of hot face	°C	35.06
d. Temperature of cold face	°C	15.26
e. Mean temperature	°C	25.16
f. Apparent Thermal conductivity	W/mK	0.0247
	(Kcal/mhK)	0.0213

Remarks: 1- 1 W/mK = 0.859845 Kcal/mhK
2- The average of 3 runs were reported.
3- The test was conducted on 11 Apr 2019.

Eddie Suwand
Senior Associate Engineer

Fabien Tan
Engineer
Building & Acoustics Group
Real Estate & Infrastructure
Mechanical