

TEST REPORT

REPORT NO : 2018CB0898

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Applicant. : MECH REF ENGINEERING SDN BHD
No: 40 & 42,
Jalan Anggerik Mokara 31/47,
Kota Kemuning,
40460 Shah Alam
Selangor Darul Ehsan

Manufacturer : MECH REF ENGINEERING SDN BHD

Product : Insulation Panel (Polyurethane Core)

Reference Standard/
Method of test : 1) BS EN 14509: 2013,
Self-supporting double skin metal faced insulating panels – Factory made
products – Specification
Clause A.2: Determination of compression strength of the core material
Clause A.3: Determination of shear test of the core material
2) BS EN 12087: 2013,
Thermal insulating products for building application - Determination of
Long Term Water Absorption by Immersion

Description of sample : One (1) model of Insulation Panel (Polyurethane Core) was received for
testing.
Nominal thickness: 50 mm
Brand: MR
Product description: Self-supporting double skin metal faced insulating
polyurethane rigid foam panels

Date Received of
Complete Application : 7th March 2018

Job No./Ref. No. : J20181430192/SQAS/CCST/T.REC/CSL/09

Description of test
results : The test results of the submitted test sample are described in Page 2 & 3 of
this test report.

Issued date :

24 MAY 2018

Approved Signatory



(HANON NAZIR MOHD BASIR)
Senior Testing Executive




M RAJA NOR SIHA RAJA ABD. HANAN)
Head

Civil & Construction Section
Testing Services Department

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TEST RESULTS:

Product : Insulation Panel (Polyurethane Core)
 Method of Test : BS EN 14509: 2013,
 Self-supporting double skin metal faced insulating panels – Factory made products – Specification
 Clause A.2: Determination of compression strength of the core material
 Clause A.3: Determination of shear test of the core material

CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
5.2	Properties of panel		
5.2.1	Mechanical resistance of the panel		
5.2.1.2	Shear strength	1) 0.099 MPa 2) 0.089 MPa 3) 0.093 MPa 4) 0.095 MPa 5) 0.085 MPa Mean: 0.092 MPa	Declared by manufacturer
5.2.1.4	Compressive Strength - compressive stress at 10 % deformation	1) 0.13 MPa 2) 0.13 MPa 3) 0.12 MPa 4) 0.13 MPa 5) 0.15 MPa Mean: 0.13 MPa	Declared by manufacturer

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24 MAY 2018



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TEST RESULTS:

Product : Insulation Panel (Polyurethane Core)
Method of Test : BS EN 12087: 2013,
Thermal insulating products for building application - Determination of Long Term Water Absorption by Immersion

NO.	TYPE OF TEST METHOD	TEST RESULTS
1.	Determination of long term water absorption by immersion - Method 2A: Long term water absorption by total immersion	1) 0.25 % 2) 0.30 % 3) 0.15 % 4) 0.20 % 5) 0.20 % Mean: 0.22 %

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24 MAY 2018



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