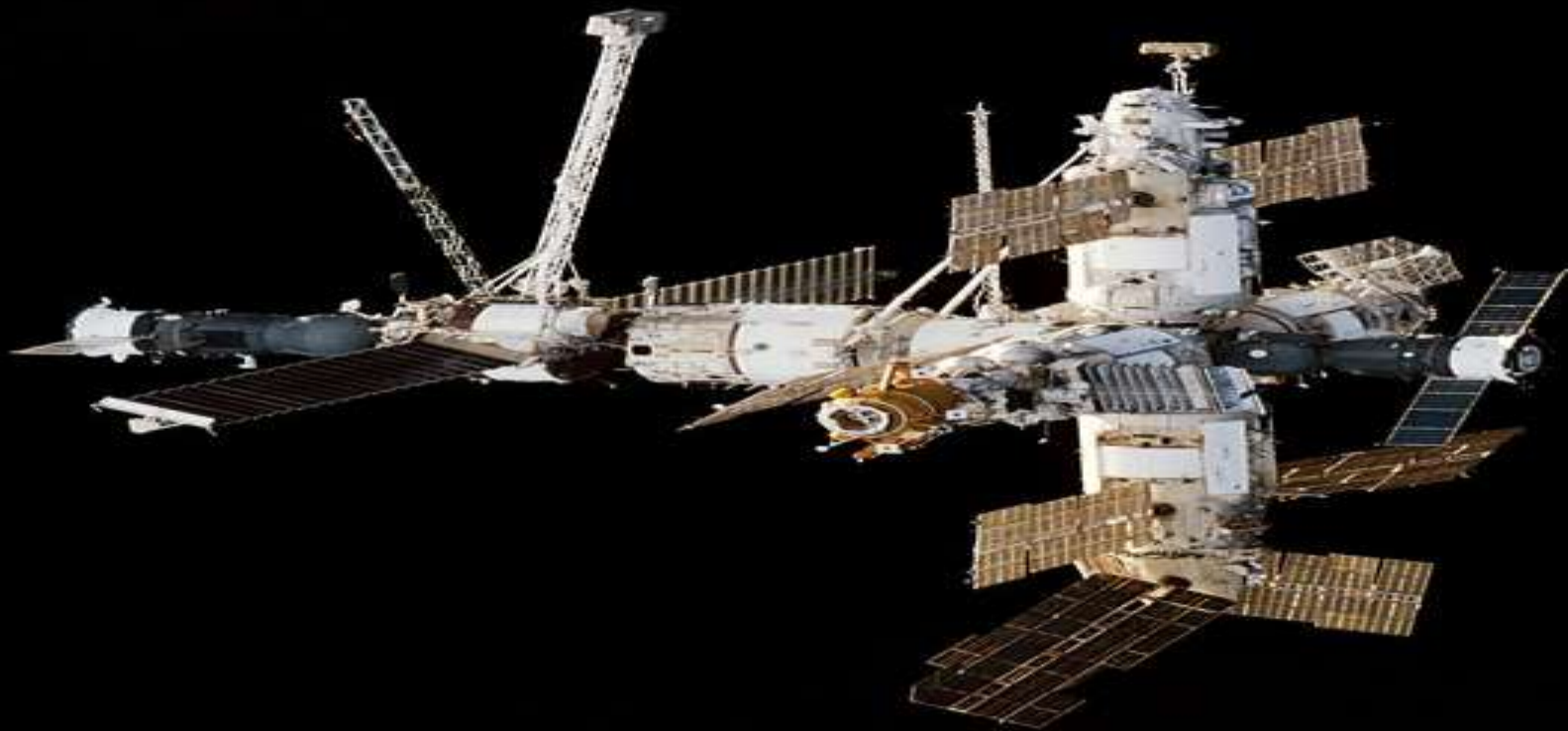


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THERMAL INSULATING COATING SYSTEMS



C-COAT™ INSULATION AUSTRALIA PTY LTD

ABN 40 663 636 610

Unit 4 | 128 Station Road | Seven Hills NSW 2147 | Australia
P +61 9674 3005 | F +61 2 9674 8005 | E info@c-coat.com.au

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THE
SPACESHIP
COMPANY

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GALACTIC

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Brolton Group



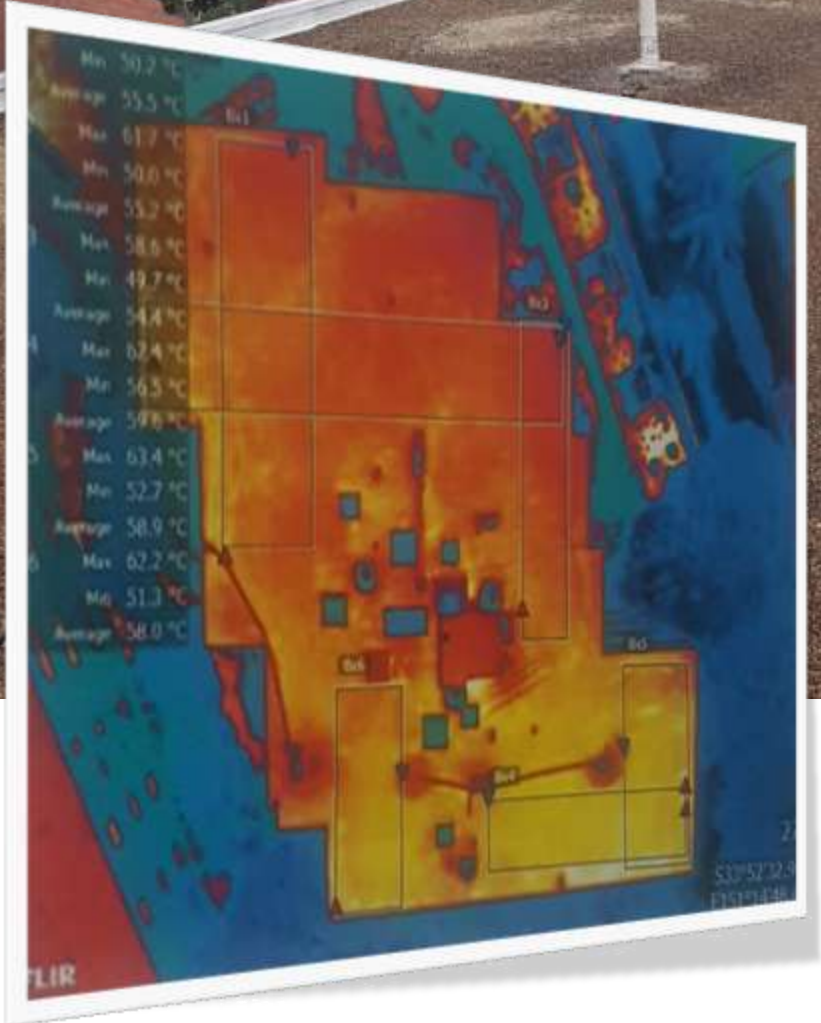
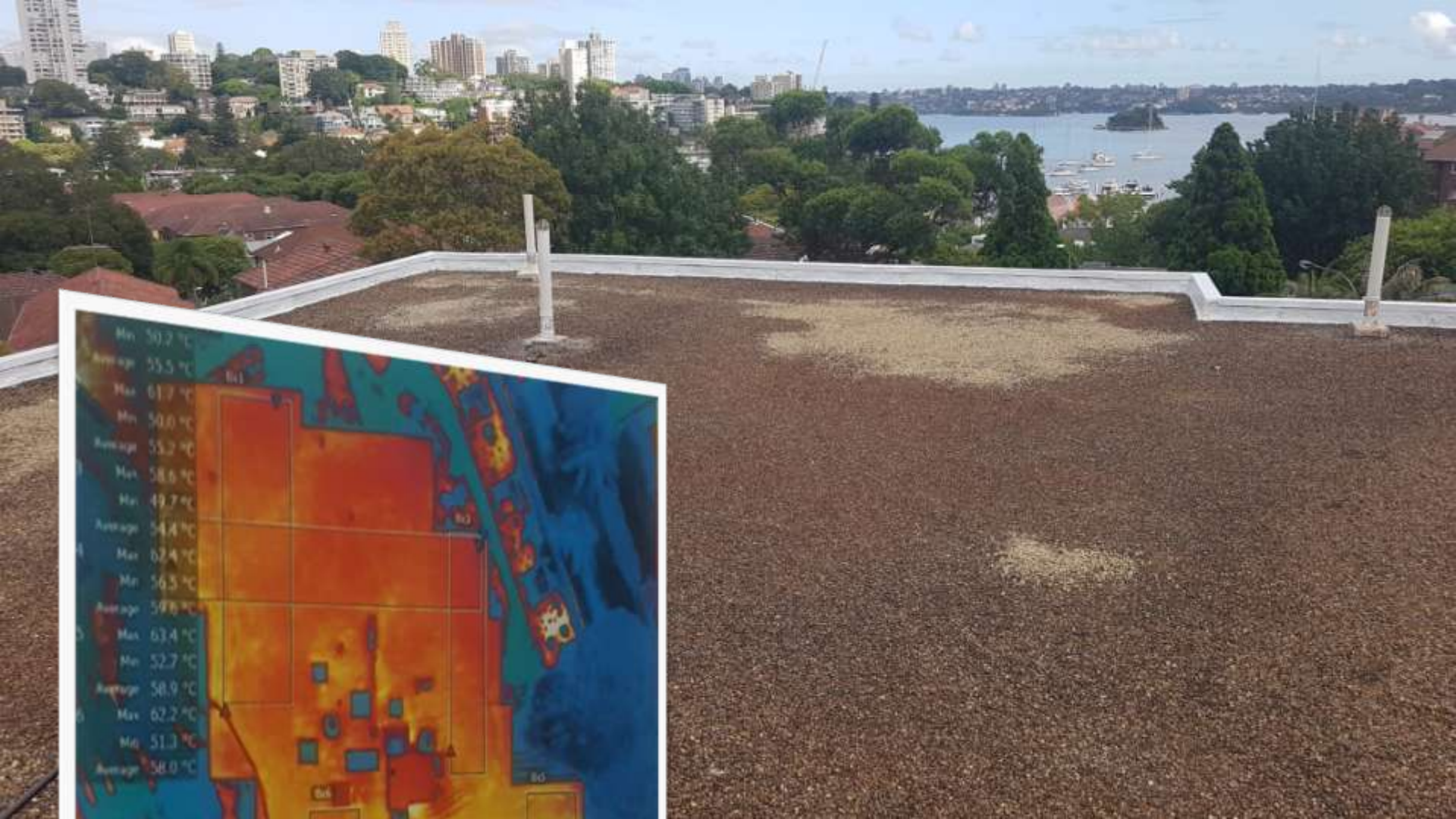


INDIAN NAVY



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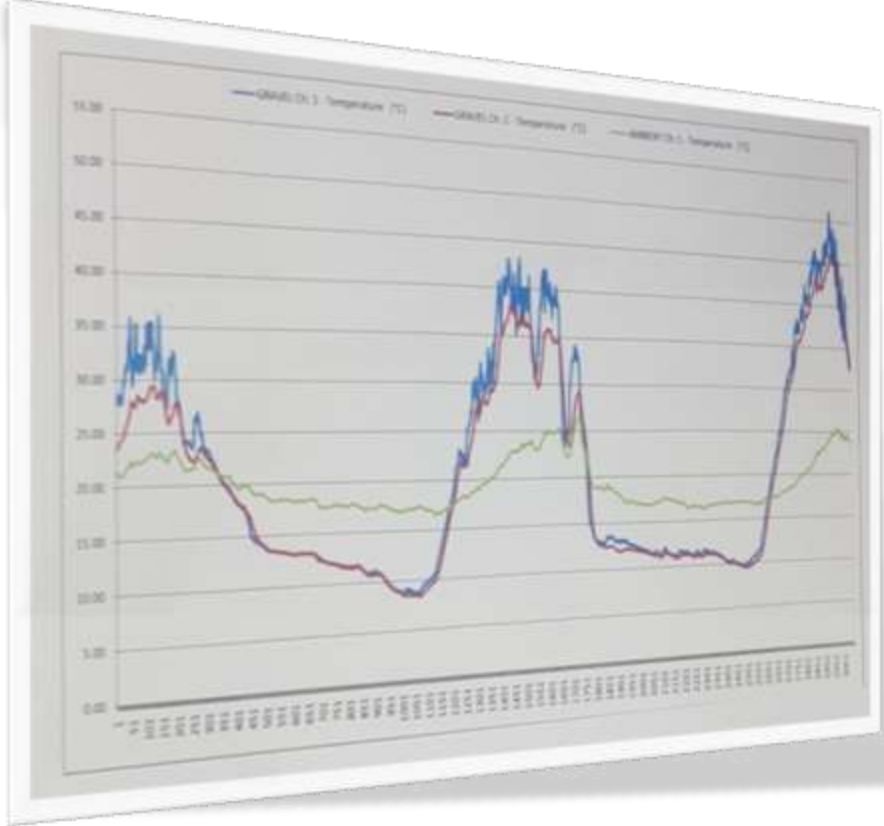
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Roof with 130mm classic insulation R3.0 underside



Roofing Detail
130mm
130mm x 1200mm
Light Duty Structural Foil
R3.0
QTY 1



Temperature Sensor on the surface

Roof with 0.5mm coat of C-COAT™

Data logger



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Standard plain (non-insulated) roof



Roof with 130mm insulation R3.0

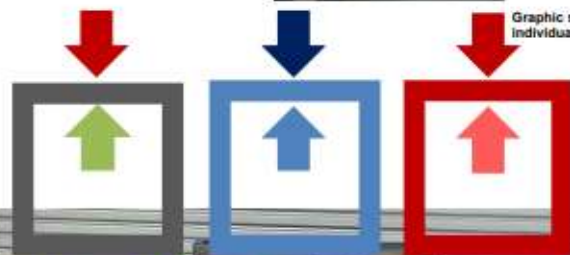


Temperature Sensor underneath

Sensors were positioned on top of the roofs and directly underneath.

Data has been collected with approved data loggers.

Testing was organised in Sydney during Australian winter with ambient temperatures from 11°C up to only 30°C.



Graphic symbols used to represent individual Test Boxes in graphs



WOOL
glasswool insulation

CEILING INSULATION



R-4.0



7.5 195 x 430 x 1160mm 15 11.4

731632



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Fire protection



Absorbs sound

Key reasons:

• No added gypsum

• No formaldehyde

• Shows your small rooms with an imagination with Acoustic



EMAS

Material Lab

REPORT ON THERMAL CONDUCTIVITY OF LIQUID CERAMIC INSULATION COATING

Client Name	Urban Green Insulation and Fire Protection L.L.C	Thermal No.	000000	Lab No.	000000
Address	Dubai, U.A.E	Lab. Project No.	000000	Lab. Report No.	000000
Project Name	Quality Control Testing	Calibration used	14306		
Sample Description	C-Coat Thermal Insulation Material	Set Point Upper Plate	30.00°C		
Test specimen size (L x W x T)	300 x 300 x 50 mm	Set Point Lower Plate	30.00°C		
Coating Thickness	1 mm	Mean Temperature	30.00°C		
Sampled by	Client	Thermal Conductivity of Insulation without C-Coat	0.03600 W/mK		
Sample brought in by	Client	Thermal Conductivity of Insulation with C-Coat	0.03432 W/mK		
Source of Sample	MP	Thermal Conductivity of C-Coat	0.00028 W/mK		
Sampling Method	Random	Date Sample Received	04/01/2023		
Sampling Date	04/01/2023	Date test started	06/01/2023		
Orientation of Specimen	Horizontal	Date Test Completed	06/01/2023		
Ambient Temperature	23 ± 2°C	Report Date	11/01/2023		
Relative Humidity	50 ± 5 %	Test Location	Mat. N. Q. Lab		
		Tested by	MM		

Item	Test Name	Test Result
1	Average Thermal Conductivity (k-value)	0.034

- Test method variation: None
- Remarks: None



REPORT ON DETERMINATION OF THERMAL TRANSMISSION PROPERTIES OF C-COAT (BY CALCULATION METHOD)

Page 01 of 01

Client Name	Urban Green Insulation and Fire Protection L.L.C	Lab. Ref No.	POLQ-20011220
Address	Dubai, U.A.E	Lab. Project No.	000000
Project Name	Quality Control Testing	Lab. Report No.	POLR-00000004
Sample Description	C-Coat Thermal Insulation Material	Calibration used	14306
Test specimen size (L x W x T)	300 x 300 x 50 mm	Set Point Upper Plate	30.00°C
Coating Thickness	1 mm	Set Point Lower Plate	30.00°C
Sampled by	Client	Mean Temperature	30.00°C
Sample brought in by	Client	Thermal Conductivity of Insulation without C-Coat	0.03600 W/mK
Source of Sample	MP	Thermal Conductivity of Insulation with C-Coat	0.03432 W/mK
Sampling Method	Random	Thermal Conductivity of C-Coat	0.00028 W/mK
Sampling Date	04/01/2023	Date Sample Received	04/01/2023
Orientation of Specimen	Horizontal	Date test started	06/01/2023
Ambient Temperature	23 ± 2°C	Date Test Completed	06/01/2023
Relative Humidity	50 ± 5 %	Report Date	11/01/2023
		Test Location	Mat. N. Q. Lab
		Tested by	MM

Introduction: Urban Green Insulation and Fire Protection L.L.C appointed Material Lab for determination of U Value of C-Coat.

Test Method: The values of thermal conductivity were converted into thermal resistance by dividing thickness with thermal conductivity of the material.

Calculation: The thermal transmittance (U) Value of the C-Coat

$$U = \frac{1}{R_{si} + R_{cl} + R_{se}}$$

Test Data:

Item No.	Test Name	Unit	Test Result
1	Average Thermal Resistance of C-Coat	m ² ·K/W	0.046
2	Thermal Surface Resistance	m ² ·K/W	0.040
3	Thermal Surface Resistance	m ² ·K/W	0.120
4	Total Thermal Resistance of C-Coat	m ² ·K/W	0.210

Item No.	U Value of C-Coat	Unit	Test Result
1	U Value of C-Coat	W/m ² ·K	4.75
2	U Value of C-Coat	W/m ² ·K	0.240

Test method: ASTM E 918-15, EN ISO 6946: 2007

Test method variation: None

Remarks: None



Authorized Signatory
Ali Khatib
Chemical Supervisor

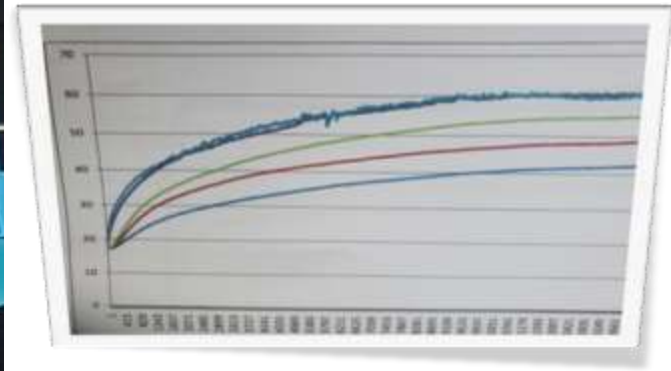
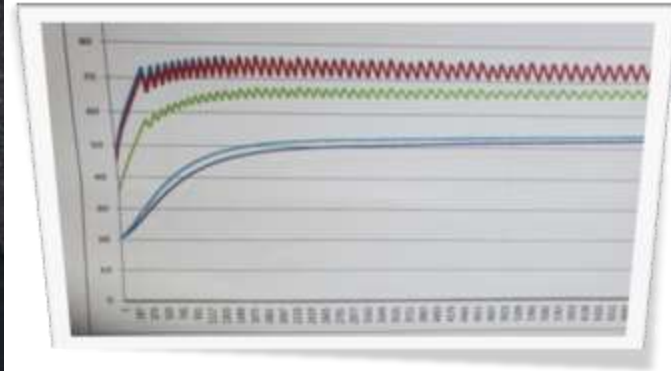
Results valid only for the test listed.
This report shall not be reproduced without the lab, without the written approval of the laboratory.

Material Lab Testing Services L.L.C. Dubai Investment Park, Dubai, U.A.E. +971 4 340 5478
+971 4 331 1542, Also (Dubai): Material Lab Testing Services L.L.C. +971 4 340 5478





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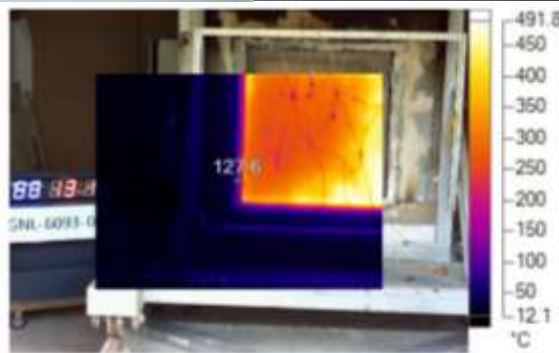
**PROFESSIONAL FIRE
SAFETY TESTING**

T: (02) 6111 2909 | ABN: 36 620 256 617
mail@ignislabs.com.au | www.ignislabs.com.au
 3 Cooper Place, Queanbeyan, NSW 2620
 PO Box 5174 Braddon, ACT 2612



**IGNIS LABS QUOTE
INFORMATION PACK
AS 1530.4 Fire resistance test**

2021



IR000069.IS2



Visible Light Image



UKcert
Certification & Inspection

Certificate of Compliance



We hereby declare that the technical files of all the items in each product group complies with the requirements of the Council Directive on General Product Safety Directive (GPSD)

Certificate No: - Draft

Manufacturer : C-COAT INSULATION AUSTRALIA PTY LTD
Address : U4/128 STATION RD, SEVEN HILLS, NSW 2147 AUSTRALIA
Products : C-COAT TIC – THERMAL INSULATING COATINGS
 C-COAT TIP – THERMAL INSULATING PAINTS
 C-COAT ITC – INTUMESCENT COATINGS

Testing Laboratory : KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING

Complies with the requirements applicable to it

The quality system file has been assessed, approved and is subject to continuous surveillance according to the Council Directive on General Product Safety Directive (GPSD) (2001/95/EC)

This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type-examination procedures, if requested.
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.
3. The certificate validity is conditioned by positive results or surveillance audits.

The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of test report of one sample of above mentioned product. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at www.ukcertifications.org.uk/verify

Date of Certification	03rd December 2022
1 st Surveillance Audit Due	02nd December 2023
2 nd Surveillance Audit Due	02nd December 2024
Certificate Expiry (subject to the company maintaining its system to the required standard)	02nd December 2025

Authorised Signatory



22-003144
21/10/2022
28/10/2022

AWTA Product Testing

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 054 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3021
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Shield Crete Services Aust.
48A Medcalf St
Warners Bay NSW 2282

Test Num
Issue Da
Print Da

Description	Plasterboard Colour : Grey Nominal Thickness : 10mm
2017	Steady-State Thermal Transmission Properties by Means of
	Test Date
	Test Apparatus
	Sample Orientation
	Heat Flow Direction
	Mean Test Temperature
	Temperature Differential
	Average Thermal Gradient
	Estimated uncertainty in results
	Specimen
	Specimen Thickness (as received)
	Specimen Thickness (as tested)
	Specimen Density (as tested)
	Test Duration
	Measured Heat Flux
	Measured Thermal Conductance
	Measured Thermal Conductivity
	Thermal Resistance

9527 49797



Accredited for compliance with

samples and their identifying descriptions have been
LTD makes no warranty, implied or otherwise, as to
reference only in the samples or samples tested. This
be rendered void if amended or altered. This do
may be used in advertising provided the correct
the Managing Director of AWTA Ltd.

THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE - EUROPE
KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING
Laboratory for Certification Testing of corrosion-resistant insulating coatings of pl
Laboratory No. 11

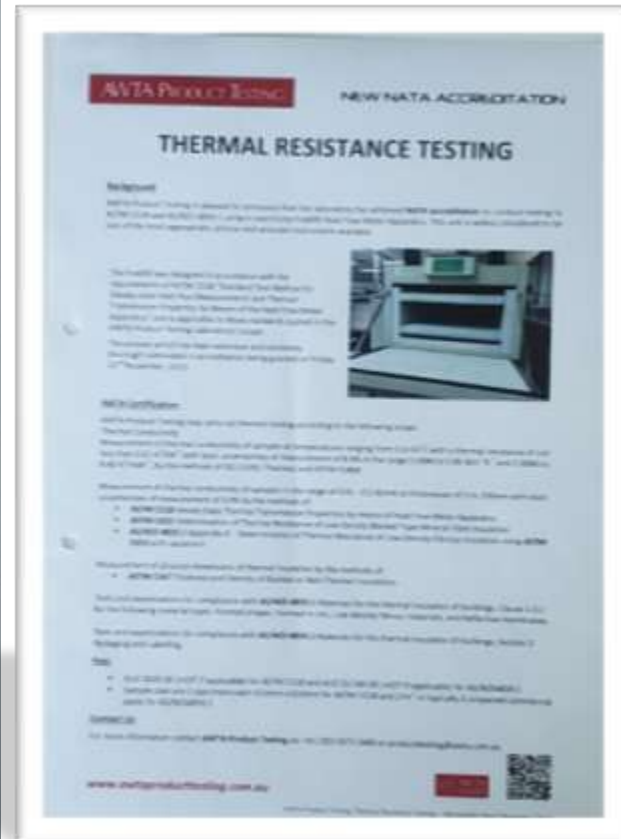
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TESTING PROGRAM 2021




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KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING
Laboratory for Certification Testing of corrosion-resistant insulating coatings of pipelines
Laboratory № 11



LABORATORY PURPOSE:
Verification of materials and coatings, development of new insulation materials, control and acceptance tests of materials used in the national economy to protect against corrosion, in carrying out technical supervision of production of materials, control and acceptance tests of other normative documents developed by the laboratory for heat-insulating and anti-corrosion materials and coverings.

MAIN ACTIVITIES OF THE LABORATORY:
Verification tests of domestic and imported film, polymer, paint, mastic, anti-corrosion coatings and thermal insulation materials used in the national economy to protect against corrosion, development of methods for examination of standards and designs of coatings, development of regulatory objects, and approval of technical conditions and standards for materials; development of methods of materials testing, transfer to customers of copies of methods, technical conditions and other normative documents developed by the laboratory for heat-insulating and anti-corrosion materials and coverings.

KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING
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KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING
Laboratory for Certification Testing of corrosion-resistant insulating coatings of pipelines
Laboratory № 11

No	Report Number	Description	Page No.
1	89-62 P-0842/0	The Thermal Conductivity of the coating film C-COAT 1200	7
2	89-64 P-0841/0	The Diffuse Reflection Coefficient of the coating film C-COAT 1200	8
3	89-66 P-0841/1	The Mass Fraction of Non-volatile Substances of the coating film C-COAT 1200	11
4	89-71 P-0841/1	The Determination of Solubility, SW/SE, of the coating film C-COAT 1200	13
5	89-71 P-0841/1	The Solar Reflective Index of the coating film C-COAT 1200	15
6	89-74 P-0841/2	The Adhesion of the coating film C-COAT 1200	19
7	89-80 P-0841/2	The Determination of Water Permeability of the coating film C-COAT 1200	21
8	89-81 P-0841/1	The EPR T800 of the coating film C-COAT 1200	23
9	89-81 P-0841/1	The Impact Strength of the coating film C-COAT 1200	25
10	89-82 P-0841/0	The Resistance to the static effects of water of the coating film C-COAT 1200	27
11	89-87 P-0841/1	Temperature stability of the coating C-COAT 1200	27
12	89-87 P-0841/1	The Appearance of the coating film C-COAT 1200	28
13	89-87 P-0841/0	The Density of the coating film C-COAT 1200	28

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Serge Popovich
support@acrylictech.com.au
ATA
4/128 Station Road
Seven Hills NSW 2147

17 November 2022

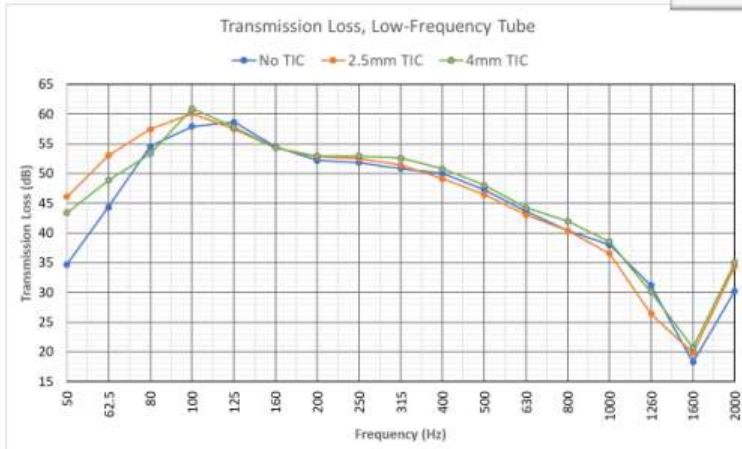
Re: Acoustic Services for Acrylic Technologies Australia, v1.0

Dear Serge,

We have now completed the testing of the TIC product applied in 2.5 mm and 4 mm thicknesses to the 2 mm thick plate provided to us for transmission loss and resonance testing. The letter below provides a summary of the results.

1. IMPEDANCE TUBE – TRANSMISSION LOSS TESTS

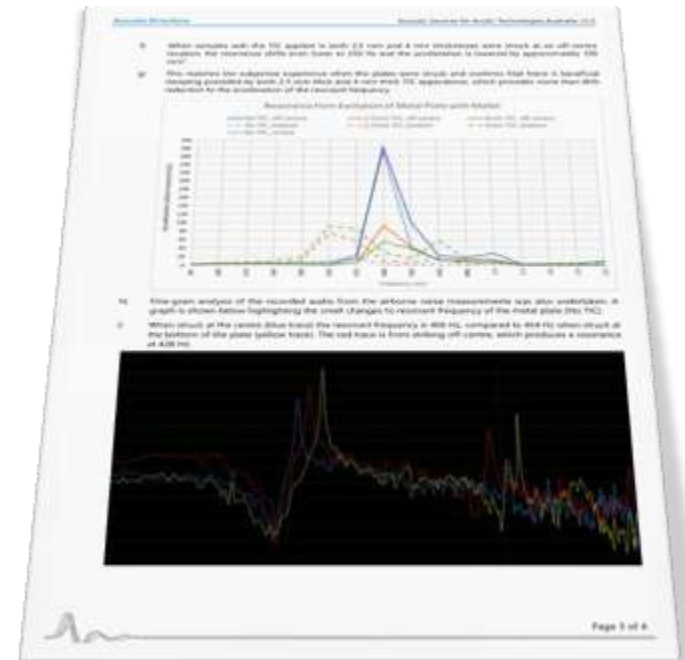
- a) Transmission-loss tests conducted in our low-frequency impedance tube (refer to photo below that there is insignificant change to the transmission loss of the 2 mm plain metal sheet compared to the metal plate with TIC applied. Please refer to graph below.



- b) Given this, we have not prepared any data sheets as I believe they will not be of any assistance to you.



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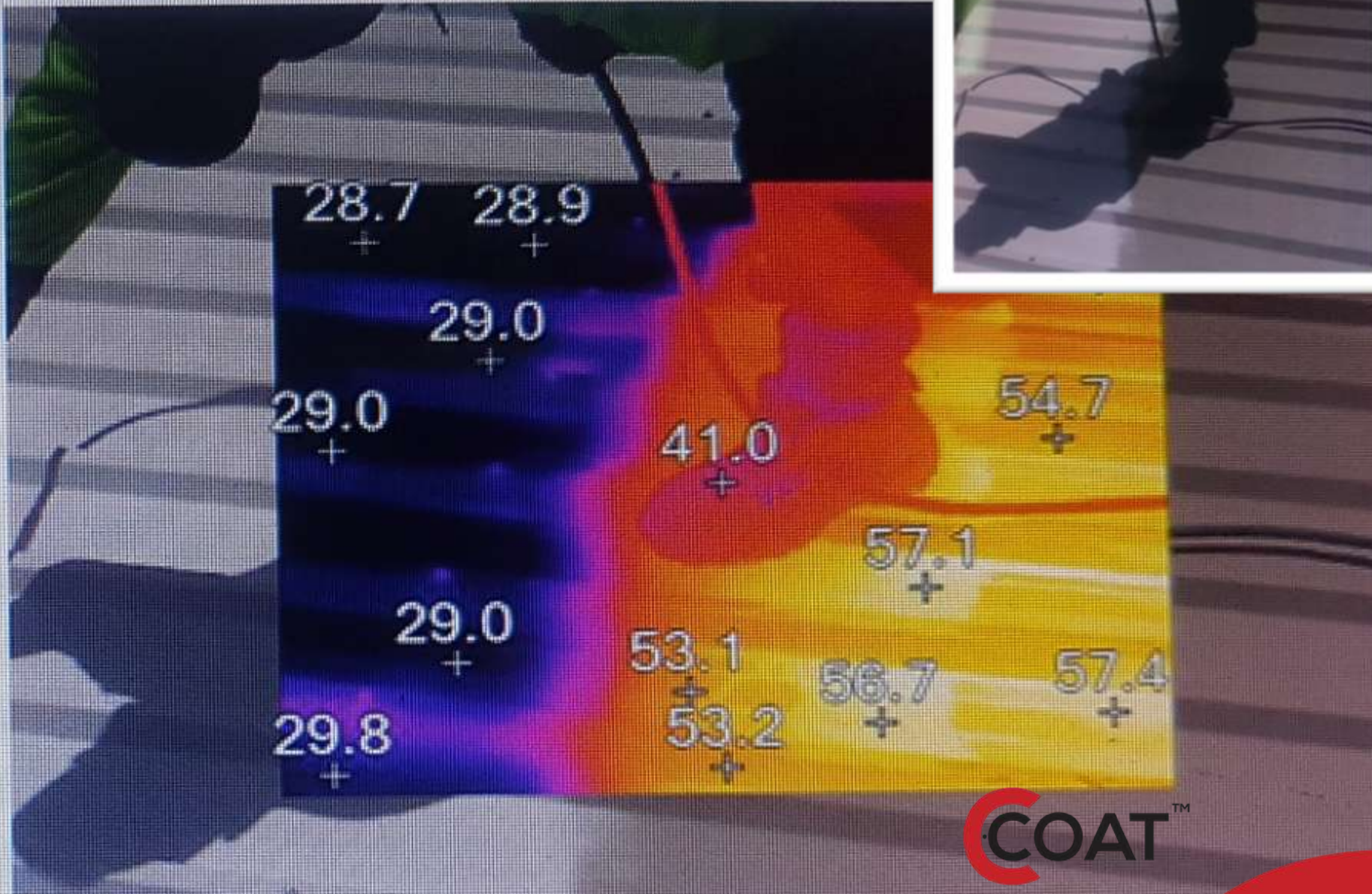


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IR000228 11/26/2019 11:58:07 AM





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