



ECOWOOL CLASSIC CLASSICTONE

Application: Ceiling Panel

Brand: Ecowool

Series: Classic

Specification Statement:

Ecowool Classic Glasswool Insulation, certified by EUCB. This product is covered by a 10-year warranty.

A photograph of modern skyscrapers with glass facades under a clear blue sky. The buildings are partially obscured by a dark blue semi-transparent rectangle that serves as a background for the title.

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Certification



Certificate of WARRANTY



PGF INSULATION

We, PGF Insulation grant

LOREM IPSUM

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Lorem Ipsum

A 70-year Limited Warranty, which is valid with this certificate and the purchase documents.
Please refer to the enclosed Warranty Statement for details.

Valid Through

The xx of xx, 20xx

For PGF Insulation Sdn. Bhd.

Name : Tan Ming Chong
Designation : Chief Operating Officer



Product & Project Specific Commercial Warranty

GLASS MINERAL WOOL INSULATION

Sponsor :
Project :

Address :

Application :
Product :

BQ Quantity :
Actual Quantity :
Commencement Date :
Completion Date :
Architect :
Contractor :

PGF Insulation, subject to the conditions and limitations set forth below, warrants its resin bonded glass mineral wool insulations are manufactured in accordance with MS 1020:2022 and are fit for the purpose of insulating roofs, walls, sectional pipes and ceiling, if tested in accordance with the methodology referred to in MS 1020:2022, if properly installed in accordance with the installation instructions, and if maintained according to relevant Standards including MS 1020:2022 .

PGF INSULATION DISCLAIMS ALL OTHER REPRESENTATIONS AND WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, IN FACT OR IN LAW, INCLUDING, WITHOUT LIMITATION, THE IMPLIED LIMITED WARRANTY OF MERCHANTABILITY AND THE IMPLIED LIMITED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

CLAUSE 1 - COVERAGE

- 1) PGF Insulation warrants to the organization purchasing the glass mineral wool insulation, hereinafter referred to as the "Covered Company" that:
 - a) The glass mineral wool insulation is free from manufacturing defects for a period of 10 years for faced product and 70 years for unfaced products from the date of purchase.
 - b) When used for its intended purpose, properly installed in accordance with PGF Insulation installation instructions and maintained in dry conditions, the glass mineral wool insulation can be expected to maintain its thermal insulation properties for the warranted period from the date of purchase (glass mineral wool insulation product performance).
 - c) Should any manufacturing defect e.g. bulging, warping, buckling or sagging occur during said warranted period, PGF Insulation will provide replacement of glass mineral wool insulation material to the original purchaser of the material or a subsequent owner of the building if the portion of the glass mineral wool insulation is determined to be defective; but not including labour costs and tear-out costs incurred in removal of defective material or installing the replacement material.
 - d) In lieu of providing replacement material reserves the right to, at its sole discretion, refund that amount paid for the defective material (excluding costs to install).

CLAUSE 2 - TERMS AND CONDITIONS

- 1) PGF Insulation's liability to the Covered Company under this Limited Warranty shall be subject to the following terms and conditions:
 - a) The claimant must provide the following documents:
 - i. Original Certificate of Warranty
 - ii. Proof of Purchase showing details of the seller and the installer.
 - b) The glass mineral wool insulation must be transported and stored in dry conditions at all times between purchase and installation and without bearing the weight of other materials. PGF Insulation will have no liability under this Limited Warranty in respect of wet or water damaged glass mineral wool insulation.
 - c) The glass mineral wool insulation must be installed in accordance with PGF Insulation installation instructions and maintained according to all other applicable building codes adopted by federal, state, or local government or government agencies and applicable to the installation or maintenance. Failure to properly install or maintain the glass mineral wool insulation in accordance with this clause will void this Limited Warranty.

Ecowool Classic CLASSICTONE®

Built on Ecowool technology, Ecowool Classic CLASSICTONE® glass mineral wool acoustic ceiling panel is manufactured using up to 80% of recycled glass cullet. It is an aesthetical and decorative suspended ceiling system, specially designed for selective and distinctive applications, where acoustical (sound) control is crucial and paramount.

APPLICATION

As decorative, acoustically effective suspended ceilings for indoor use and in covered outside areas that are not exposed to weather such as rain or environmental pollution. Ecowool Classic CLASSICTONE® is installed on an exposed or concealed suspended grid system, creating a ceiling with a smooth appearance. Each acoustic panel is easily demountable.

FEATURES AND BENEFITS

Sustainable product. Ecowool Classic CLASSICTONE® is free from CFCs, HCFCs and any material with ozone depletion potential (ODP) in their manufacture/composition content, which are harmless to the environment. Ecowool Classic CLASSICTONE® is compliant with most green rating tools including ODP emission credit requirements. Air quality is unaffected with total volatile organic compound (VOC) emissions below quantifiable levels.

Mould-free. Does not encourage growth of mould, fungus or bacteria. Tested in accordance with ASTM C1338-08.

Non-corrosive. Chemically inert. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum due to its specifically inorganic and mineral composition. Tested in accordance with ASTM C665-12.

Optimal fibre diameter. Optimal fibre diameter ranging from 4-5 micron produces more air chamber which enables the insulation to provide a better and enhanced performance.

Better fibre network. Fine, longer and evenly distributed fibre network helps in creating better tensile strength allowing the insulation to demonstrate superior durability, flexibility that feels much softer.

Alkalinity. pH 9.

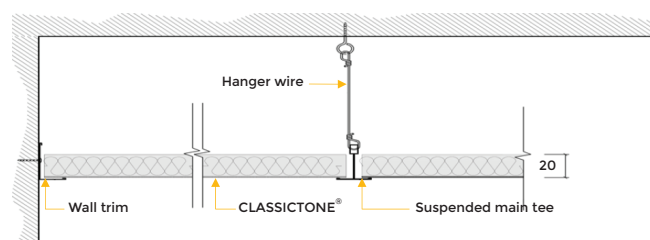
Low water vapour absorption. Absorbs <0.02% by volume. Tested in accordance with ASTM C1104.

Zero odour emission. Does not emit any unpleasant odour. Tested in accordance with ASTM C1304.

Classic

PERFORMANCE

Sag Resistance. Moist indoor air can cause other panels to visibly sag. Ecowool Classic CLASSICTONE® acoustic ceiling panel offers very high resistance to moisture absorption which protects them against warping, bulging and sagging. The panels can withstand a permanent ambient relative humidity (RH) up to 90% at 30°C without sagging.



Hygienic properties. Made of Ecowool glass mineral wool, Ecowool Classic CLASSICTONE® has no nutritional value and therefore it provides no sustenance to harmful micro-organisms.

Surface finish. Factory painted glass scrim - white (other colors available upon request)

Fire safety properties. Tested in accordance with:

- B.S. 476: Part 6 Fire propagation
- B.S. 476: Part 7 Surface spread of flame
- BOMBA Class "O" (glass mineral wool only)

Thermal conductivity. Tested in accordance with ASTM C518 at 20°C mean temperature. K-Value : 0.0309 W/mK.

Acoustical performance. Ecowool Classic CLASSICTONE® acoustic ceiling panel is amongst the most effective acoustic insulation solutions when noise treatment is required. Tested in accordance with ASTM C423-09a and E795-05.

THK (mm)	Center Frequency (Hz)							NRC	SAA
	125	250	500	1000	2000	4000			
15mm	0.94	0.97	0.68	0.87	1.00	1.05		0.90	0.90
20mm	0.85	0.86	0.76	0.94	1.05	1.15		0.90	0.91

AVAILABLE FORM

Variations

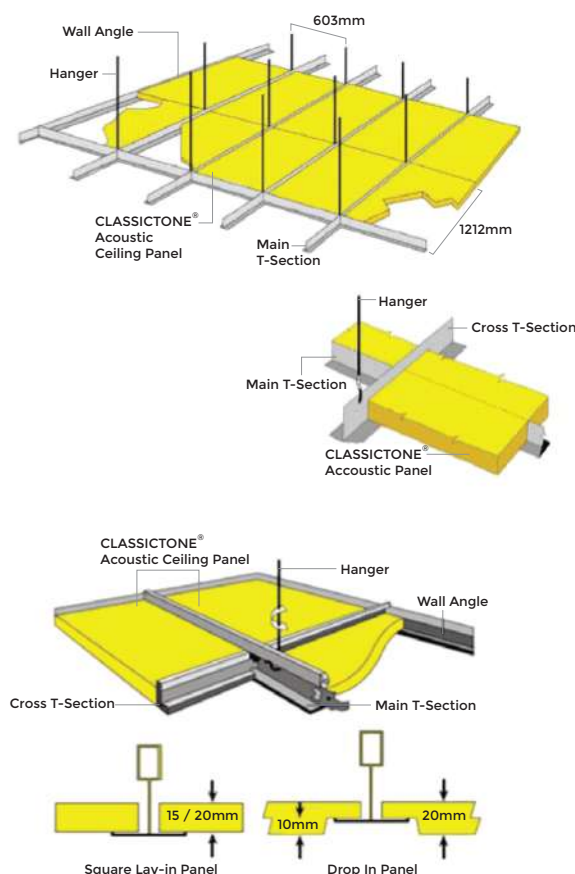
- Square lay in panels are available bare edges faced with printed glass tissue on the front.
- Square lay in panels are available concealed with printed glass tissue on the front, harden and painted edges and white glass tissue facing at the back.

Thickness	15mm	20mm	20mm recessed
Dimension	595mm x 595mm	595mm x 595mm	603mm x 603mm
	595mm x 1195mm	595mm x 1195mm	
	603mm x 603mm	603mm x 603mm	
	603mm x 1212mm	603mm x 1212mm	

INSTALLATION

The installation of Ecowool Classic CLASSICTONE® acoustic panels is part of interior decorating and may only be carried out under controlled humidity and temperature conditions. Installation shall not commence until the building is water tight and dry. Light fittings shall be independently supported, use hold down clips in areas of wind uplift. It is recommended that air grilles be installed in the ceiling to balance air pressure differentials. Please refer to the Acoustic Ceiling Panel Warranty, Installation and Maintenance Information.

Square Lay In / Drop In Panel



SHORT FORM SPECIFICATION

To supply and install Ecowool Classic CLASSICTONE® acoustic ceiling panel with NRC 0.90 manufactured by PGF Insulation c/w exposed grid system with approved 3mm hanger rod, adjustable butterfly clip, main tees, cross tees and necessary fitting and accessories fixing to steel framing or concrete soffit, including forming opening for grilles, light fittings as according to manufacturer's specification.

WARRANTY

This product is covered by a 10 years product warranty.

For full details, please go to www.ecowool.com.my

* Terms & conditions apply.



COLOUR / IMAGE DISCLAIMER

Despite every effort to provide accurate images of each ceiling panel's finishing colour, actual colours and design may vary slightly, due to the different device screen settings, the lighting in the installation location, minor differences in product finishes over time and other factors. PGF Insulation will not accept responsibility for any colour or design differences that are not factory faults. In purchasing from PGF Insulation, you agree to accept the small risk that there may be a subtle variation between the actual colour of the product against what is represented on our sales and marketing collateral due to the factors mentioned above.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of the glass mineral wool insulation listed herein represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. The suitability of the product is not binding for special individual cases. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information.

TEST REPORT

REPORT NO.: 2017FE0637

PAGE 1 OF 4

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Applicant/ Manufacturer : **PGF INSULATION SDN. BHD.**
No. 2449, Lorong Perusahaan Sepuluh,
Kawasan Perusahaan Perai,
13600 Prai,
Pulau Pinang.
(Attn: Ms. Chin Wai Fong)

Product : **INSULATION MATERIALS (MINERAL WOOL)**

Reference Standard/ Method of Test : **BS 476 : Part 7: 1997**
Fire Test on Building Materials and Structures
Part 7: Surface Spread of Flame Test.

Description of Test Specimen : **9 pieces of Insulation Materials (Mineral Wool).**
Size of Specimen : 270mm × 885mm × 20mm (measured thickness)
Brand : ECOWOOL
Model : Board; CLASSICTONE
Type : Glasswool with facing material
Nominal Thickness : 20 mm
Glasswool Density : 80 kg/m³
Mass Per Unit Area : 1.97 kg/m²

Descriptions of sample as claimed by the submitter: Refer to page 2

The specimens were tested with the face side exposed to the specified heating condition of the fire test.

The test specimens were sampled by Mr. Irfan Bin Abdullah Khalit of Industrial & Consumer Certification Section (Fire Group), SIRIM QAS International Sdn. Bhd. on 06.06.2017. The test was requested through PP2 Form Ref. No. P5-006890 / FL000012 dated 19.06.2017.

Date of Test : 07.11.2017

Test Result : **Classification of Surface Spread of Flame Test** : **Class 1**

Date Received : 09.10.2017

Job No./ Ref No. : J20171440462 /SQAS/FPS/15/1-6

Issued Date : 21 NOV 2017

Approved Signatories :

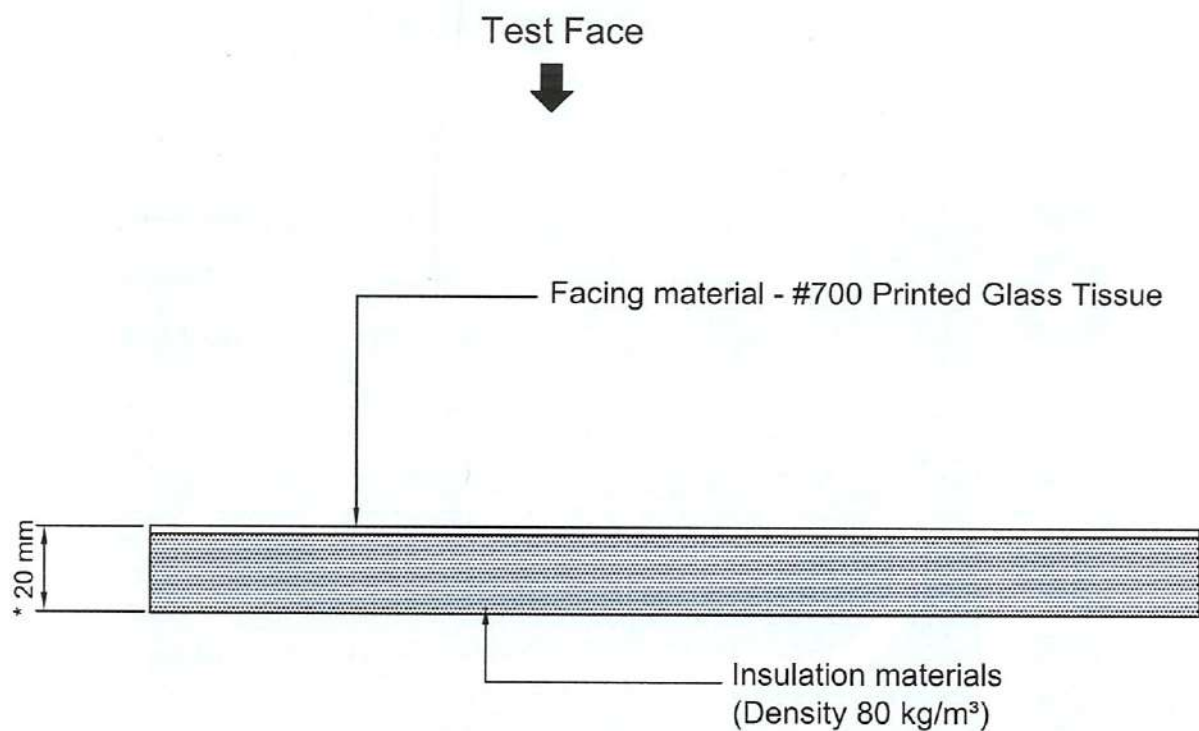

MUHAMMAD SAFUAN MUSA
Testing Executive




ROHAYA IBRAHIM
Head
Fire Protection Section
Testing Services Department
SIRIM QAS International Sdn. Bhd.

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Descriptions of sample as claimed by the submitter:



Note :-

* Measured Thickness

Insulation Materials (Mineral Wool)



A handwritten signature in blue ink, appearing to be 'W. Y. -'.

21 NOV 2017

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Name of Applicant : PGF INSULATION SDN. BHD.
Product : INSULATION MATERIALS (MINERAL WOOL)
Brand : ECOWOOL
Model : Board; CLASSICTONE
Type : Glasswool with facing material
Nominal Thickness : 20 mm
Measured Thickness : 20 mm
Glasswool Density : 80 kg/m³
Mass Per Unit Area : 1.97 kg/m²
Date of Test : 07.11.2017

Requirement

The flame spread on any specimen of the sample shall not exceed the limit assigned for the class with the proviso that for one specimen only in the sample the flame spread may exceed this limit by the tolerance shown.

Classification of Surface Spread of Flame

Classification	Flame Spread at 1½ min		Final Flame Spread	
	Limit (mm)	Tolerance for one specimen in sample (mm)	Limit (mm)	Tolerance for one specimen in sample (mm)
Class 1	165	25	165	25
Class 2	215	25	455	45
Class 3	265	25	710	75
Class 4	Exceeding Class		3 limits	



21 NOV 2017

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Test Results

Product : INSULATION MATERIALS (MINERAL WOOL)
Brand : ECOWOOL
Model : Board; CLASSICTONE
Type : Glasswool with facing material
Date of Test : 07.11.2017

Nominal Thickness : 20 mm
Measured Thickness : 20 mm
Glasswool Density : 80 kg/m³
Mass Per Unit Area : 1.97 kg/m²

Specimen No.	1	2	3	4	5	6
Spread of flame at 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance (minutes . seconds)					
75	-	-	-	-	-	-
165	-	-	-	-	-	-
190	-	-	-	-	-	-
215	-	-	-	-	-	-
240	-	-	-	-	-	-
265	-	-	-	-	-	-
290	-	-	-	-	-	-
375	-	-	-	-	-	-
455	-	-	-	-	-	-
500	-	-	-	-	-	-
525	-	-	-	-	-	-
600	-	-	-	-	-	-
675	-	-	-	-	-	-
710	-	-	-	-	-	-
750	-	-	-	-	-	-
785	-	-	-	-	-	-
825	-	-	-	-	-	-
865	-	-	-	-	-	-
Time of maximum spread of flame (minutes . seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0



Conclusion

In accordance with the class definition specified in the standard, the test results show that the sample tested has a Class **One** Surface Spread of Flame.

The test results relate only to the behavior of the test specimens of a product under the particular conditions of test; they are not intended to be sole criterion for assessing the potential fire hazard of the product in use.

[Signature] 21 NOV 2017

TEST REPORT

REPORT NO.: 2017FE0639

PAGE 1 OF 4

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Applicant/Manufacturer : **PGF INSULATION SDN. BHD.**
No. 2449, Lorong Perusahaan Sepuluh,
Kawasan Perusahaan Perai,
13600 Prai,
Pulau Pinang.
(Attn: Ms. Chin Wai Fong)

Product : **INSULATION MATERIALS (MINERAL WOOL)**

Reference Standard/Method of Test : BS 476 : Part 7: 1997
Fire Test on Building Materials and Structures
Part 7: Surface Spread of Flame Test.

Description of Test Specimen : 9 pieces of Insulation Materials (Mineral Wool).
Size of Specimen : 270mm x 885mm x 15mm (measured thickness)
Brand : ECOWOOL
Model : Board; CLASSICTONE
Type : Glasswool with facing material
Nominal Thickness : 15 mm
Glasswool Density : 80 kg/m³
Mass Per Unit Area : 1.56 kg/m²

Descriptions of sample as claimed by the submitter: Refer to page 2

The specimens were tested with the face side exposed to the specified heating condition of the fire test.

The test specimens were sampled by Mr. Irfan Bin Abdullah Khalit of Industrial & Consumer Certification Section (Fire Group), SIRIM QAS International Sdn. Bhd. on 06.06.2017. The test was requested through PP2 Form Ref. No. P5-006890 / FL000012 dated 19.06.2017.

Date of Test : 07.11.2017

Test Result : **Classification of Surface Spread of Flame Test** : **Class 1**

Date Received : 09.10.2017

Job No./ Ref No. : J20171440464 /SQAS/FPS/15/1-6

Issued Date : 21 NOV 2017

Approved Signatories :

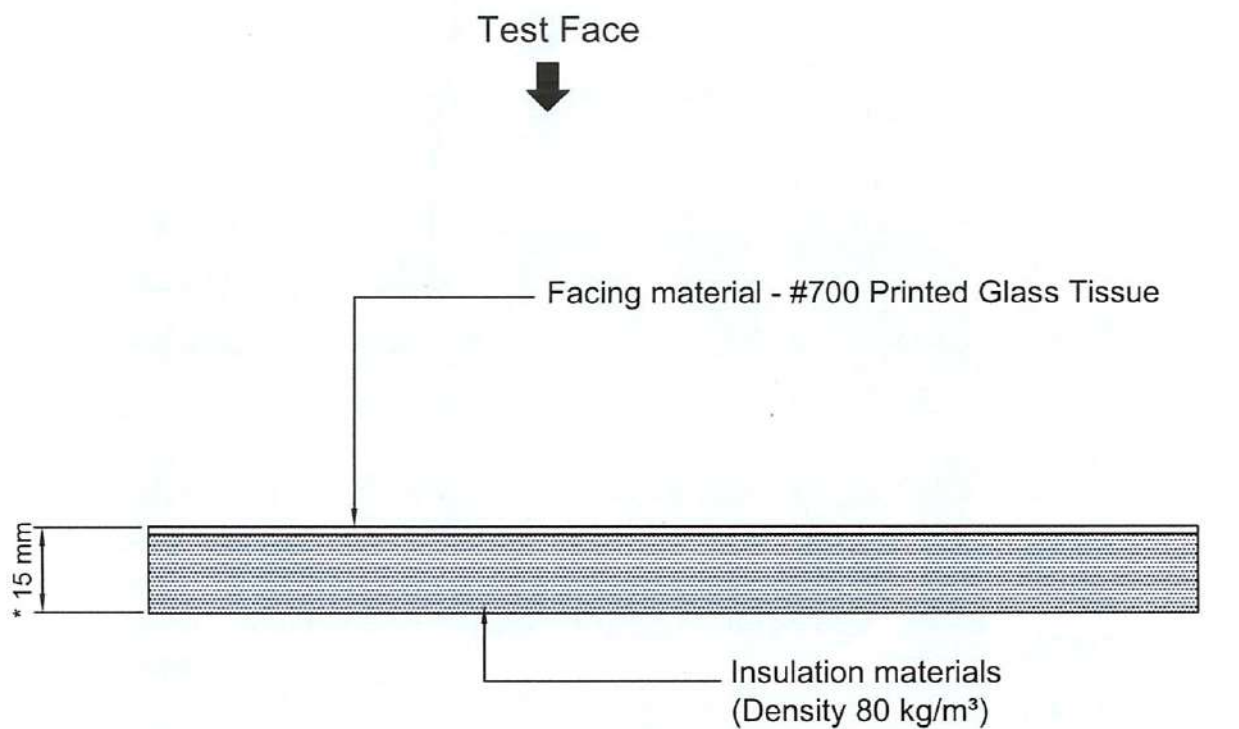

MUHAMMAD SAFUAN MUSA
Testing Executive




ROHAYA IBRAHIM
Head
Fire Protection Section
Testing Services Department
SIRIM QAS International Sdn. Bhd.

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Descriptions of sample as claimed by the submitter:



Note :-

* Measured Thickness

Insulation Materials (Mineral Wool)



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Name of Applicant : PGF INSULATION SDN. BHD.
Product : INSULATION MATERIALS (MINERAL WOOL)
Brand : ECOWOOL
Model : Board; CLASSICTONE
Type : Glasswool with facing material
Nominal Thickness : 15 mm
Measured Thickness : 15 mm
Glasswool Density : 80 kg/m³
Mass Per Unit Area : 1.56 kg/m²
Date of Test : 07.11.2017

Requirement

The flame spread on any specimen of the sample shall not exceed the limit assigned for the class with the proviso that for one specimen only in the sample the flame spread may exceed this limit by the tolerance shown.

Classification of Surface Spread of Flame

Classification	Flame Spread at 1½ min		Final Flame Spread	
	Limit (mm)	Tolerance for one specimen in sample (mm)	Limit (mm)	Tolerance for one specimen in sample (mm)
Class 1	165	25	165	25
Class 2	215	25	455	45
Class 3	265	25	710	75
Class 4	Exceeding Class		3 limits	



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Test Results

Product : INSULATION MATERIALS (MINERAL WOOL)
 Brand : ECOWOOL
 Model : Board; CLASSICTONE
 Type : Glasswool with facing material
 Date of Test : 07.11.2017

Nominal Thickness : 15 mm
 Measured Thickness : 15 mm
 Glasswool Density : 80 kg/m³
 Mass Per Unit Area : 1.56 kg/m²

Specimen No.	1	2	3	4	5	6
Spread of flame at 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance (minutes . seconds)					
75	-	-	-	-	-	-
165	-	-	-	-	-	-
190	-	-	-	-	-	-
215	-	-	-	-	-	-
240	-	-	-	-	-	-
265	-	-	-	-	-	-
290	-	-	-	-	-	-
375	-	-	-	-	-	-
455	-	-	-	-	-	-
500	-	-	-	-	-	-
525	-	-	-	-	-	-
600	-	-	-	-	-	-
675	-	-	-	-	-	-
710	-	-	-	-	-	-
750	-	-	-	-	-	-
785	-	-	-	-	-	-
825	-	-	-	-	-	-
865	-	-	-	-	-	-
Time of maximum spread of flame (minutes . seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0



Conclusion

In accordance with the class definition specified in the standard, the test results show that the sample tested has a Class **One** Surface Spread of Flame.

The test results relate only to the behavior of the test specimens of a product under the particular conditions of test; they are not intended to be sole criterion for assessing the potential fire hazard of the product in use.

[Signature] 21 NOV 2017

TEST REPORT

REPORT NO.: 2017FE0638

PAGE 1 OF 5

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Applicant/ : **PGF INSULATION SDN. BHD.**

Manufacturer : No. 2449, Lorong Perusahaan Sepuluh,
Kawasan Perusahaan Perai,
13600 Prai,
Pulau Pinang.
(Attn: Ms. Chin Wai Fong)

Product : **INSULATION MATERIALS (MINERAL WOOL)**

Reference Standard/ : BS 476: Part 6: 1989+A1:2009
Method of Test : Fire Test on Building Materials and Structures
Part 6: Method of Test for Fire Propagation for Products.

Description of Test Specimen : 6 pieces of Insulation Materials (Mineral Wool).
Size of Specimen : 225mm × 225mm × 15mm (measured thickness)
Brand : ECOWOOL
Model : Board; CLASSICTONE
Type : Glasswool with facing material
Nominal Thickness : 15 mm
Glasswool Density : 80 kg/m³
Mass Per Unit Area : 1.55kg/m²

Descriptions of sample as claimed by the submitter: Refer to page 2

The specimens were tested with the face side exposed to the specified heating condition of the fire test.

The test specimens were sampled by Mr. Irfan Bin Abdullah Khalit of Industrial & Consumer Certification Section (Fire Group), SIRIM QAS International Sdn. Bhd. on 06.06.2017. The test was requested through PP2 Form Ref. No. P5-006890 / FL000012 dated 19.06.2017.

Date of Test : 09.11.2017

Test Result	Subindex i1	Subindex i2	Subindex i3	Fire Propagation Index (I)
	4.0	2.3	0.5	6.8

Date Received : 09.10.2017

Job No./ Ref No. : J20171440463 /SQAS/FPS/15/1-5

Issued Date : 21 NOV 2017

Approved Signatories :

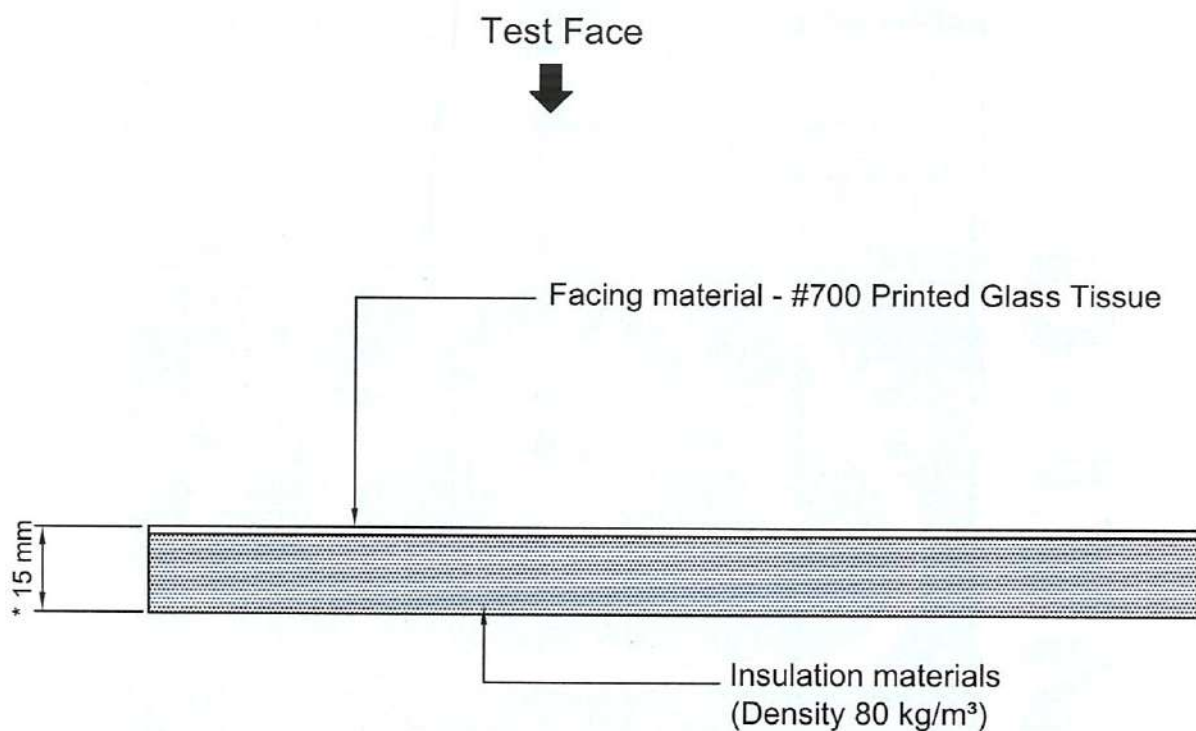

MUHAMMAD SAFUAN MUSA
Testing Executive




ROHAYA IBRAHIM
Head
Fire Protection Section
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Descriptions of sample as claimed by the submitter



Note :-

* Measured Thickness

Insulation Materials (Mineral Wool)



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Product : INSULATION MATERIALS (MINERAL WOOL)

Brand : ECOWOOL

Model : Board; CLASSICTONE

Type : Glasswool with facing material

Date of Test : 09.11.2017

Nominal Thickness : 15 mm

Measured Thickness : 15 mm

Glasswool Density : 80 kg/m³

Mass Per Unit Area : 1.55 kg/m²

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	14	22	20	21	21
1.0	19	29	26	27	27
1.5	25	35	32	33	33
2.0	29	40	36	38	38
2.5	33	46	41	42	43
3.0	38	51	46	49	48
4.0	66	86	79	84	83
5.0	102	125	118	121	121
6.0	129	154	146	149	149
7.0	150	177	170	173	173
8.0	168	193	190	194	192
9.0	183	209	207	208	208
10.0	196	220	219	221	220
12.0	215	235	235	237	235
14.0	228	247	246	247	246
16.0	239	254	254	255	254
18.0	246	261	260	260	260
20.0	253	268	267	264	266
Subindex 1		4.7	3.4	4.0	4.0
Subindex 2		2.6	2.0	2.3	2.3
Subindex 3		0.5	0.5	0.5	0.5
Index of Performance		7.8	5.9	6.8	6.8



21 NOV 2017

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Date of Test : 09.11.2017

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **6.8** for the Insulation Materials (Mineral Wool) with known mass per unit area 1.55 kg/m^2 and measured thickness 15 mm.

The Subindex i1 is 4.0

The Subindex i2 is 2.3

The Subindex i3 is 0.5

The test results relate only to the behavior of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



21 NOV 2017

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Product : INSULATION MATERIALS (MINERAL WOOL)

Brand : ECOWOOL

Model : Board; CLASSICTONE

Type : Glasswool with facing material

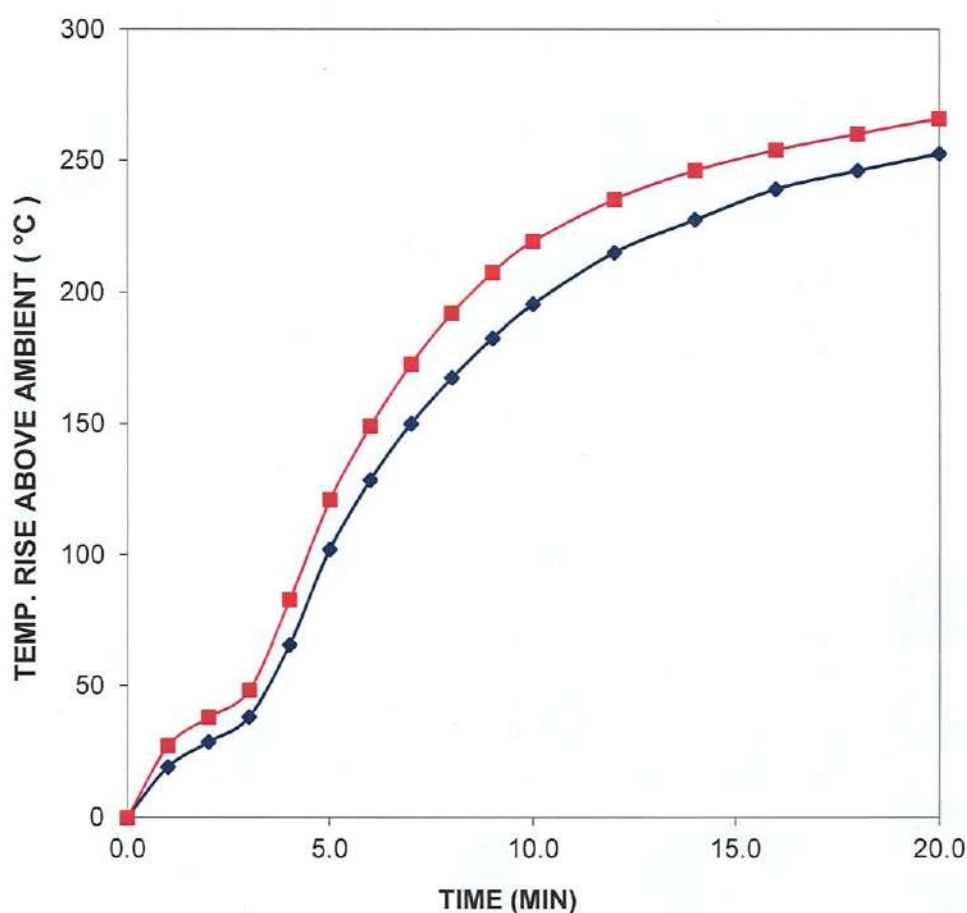
Date of Test : 09.11.2017

Nominal Thickness : 15 mm

Measured Thickness : 15 mm

Glasswool Density : 80 kg/m³

Mass Per Unit Area : 1.55 kg/m²



—◆— Calibration

—■— Insulation Materials (Mineral Wool)



21 NOV 2017

TEST REPORT

REPORT NO.: 2017FE0636	PAGE 1 OF 5
This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf of Page 1 for Conditions Relating to the Use of Test Report.	

Applicant/ Manufacturer : **PGF INSULATION SDN. BHD.**
No. 2449, Lorong Perusahaan Sepuluh,
Kawasan Perusahaan Perai,
13600 Prai,
Pulau Pinang.
(Attn: Ms. Chin Wai Fong)

Product : **INSULATION MATERIALS (MINERAL WOOL)**

Reference Standard/ Method of Test : BS 476: Part 6: 1989+A1:2009
Fire Test on Building Materials and Structures
Part 6: Method of Test for Fire Propagation for Products.

Description of Test Specimen : 6 pieces of Insulation Materials (Mineral Wool).
Size of Specimen : 225mm × 225mm × 20mm (measured thickness)
Brand : ECOWOOL
Model : Board; CLASSICTONE
Type : Glasswool with facing material
Nominal Thickness : 20 mm
Glasswool Density : 80 kg/m³
Mass Per Unit Area : 1.91kg/m²

Descriptions of sample as claimed by the submitter: Refer to page 2

The specimens were tested with the face side exposed to the specified heating condition of the fire test.

The test specimens were sampled by Mr. Irfan Bin Abdullah Khalit of Industrial & Consumer Certification Section (Fire Group), SIRIM QAS International Sdn. Bhd. on 06.06.2017. The test was requested through PP2 Form Ref. No. P5-006890 / FL000012 dated 19.06.2017.

Date of Test : 10.11.2017

Test Result :	Subindex i1	Subindex i2	Subindex i3	Fire Propagation Index (I)
	5.0	3.3	1.0	9.3

Date Received : 09.10.2017

Job No./ Ref No. : J20171440461 /SQAS/FPS/15/1-5

Issued Date : 21 NOV 2017

Approved Signatories :

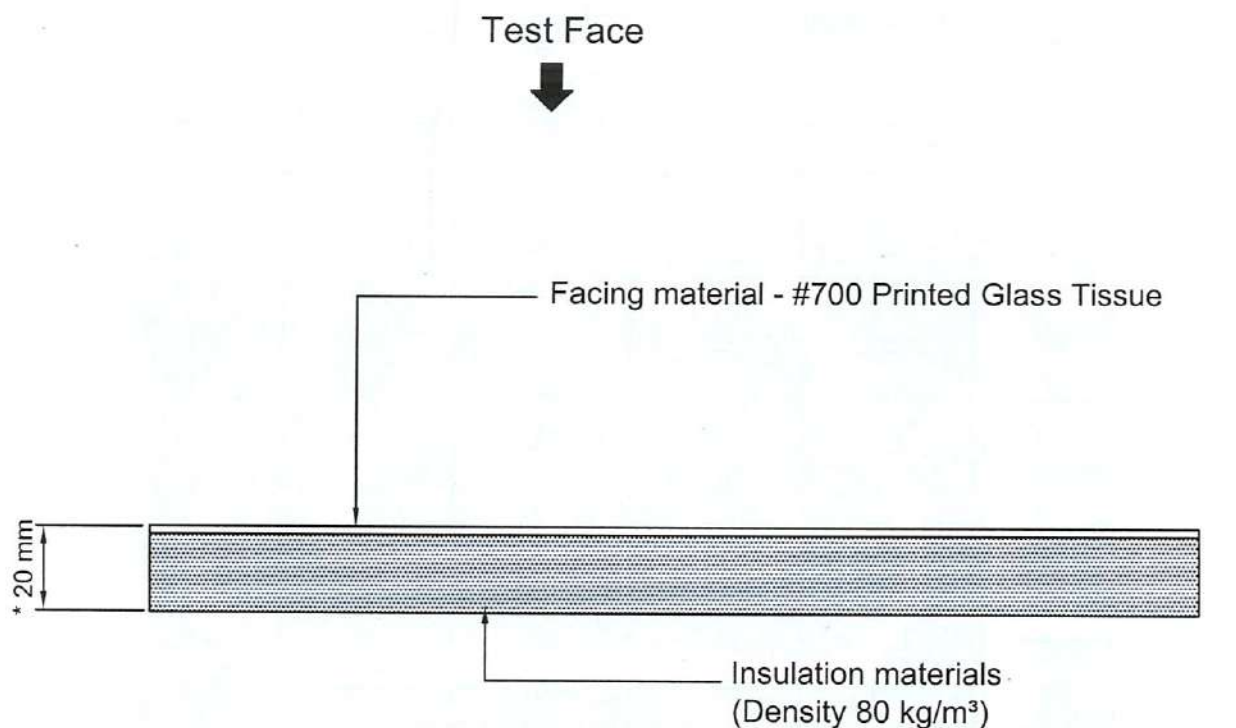

MUHAMMAD SAFUAN MUSA
Testing Executive




ROHAYA IBRAHIM
Head
Fire Protection Section
Testing Services Department
SIRIM QAS International Sdn. Bhd.

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Descriptions of sample as claimed by the submitter



Note :-

* Measured Thickness

Insulation Materials (Mineral Wool)



A handwritten signature in blue ink.

21 NOV 2017

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Product : INSULATION MATERIALS (MINERAL WOOL)

Brand : ECOWOOL

Model : Board; CLASSICTONE

Type : Glasswool with facing material

Date of Test : 10.11.2017

Nominal Thickness : 20 mm

Measured Thickness : 20 mm

Glasswool Density : 80 kg/m³

Mass Per Unit Area : 1.91 kg/m²

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	12	20	19	19	19
1.0	16	25	25	26	25
1.5	20	30	30	31	30
2.0	23	35	35	36	35
2.5	26	40	40	41	40
3.0	29	46	46	47	46
4.0	58	85	87	79	84
5.0	96	125	128	115	123
6.0	122	156	158	142	152
7.0	144	180	183	165	176
8.0	161	200	201	183	195
9.0	178	214	217	201	210
10.0	190	229	231	214	225
12.0	209	246	249	232	242
14.0	223	258	262	247	256
16.0	233	265	271	258	265
18.0	243	272	275	263	270
20.0	251	276	281	267	275
Subindex 1		5.1	4.8	5.1	5.0
Subindex 2		3.6	3.9	2.3	3.3
Subindex 3		1.1	1.2	0.7	1.0
Index of Performance		9.8	9.9	8.1	9.3



[Handwritten signature]

21 NOV 2017

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Date of Test : 10.11.2017

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **9.3** for the Insulation Materials (Mineral Wool) with known mass per unit area 1.91 kg/m² and measured thickness 20 mm.

The Subindex i1 is 5.0

The Subindex i2 is 3.3

The Subindex i3 is 1.0

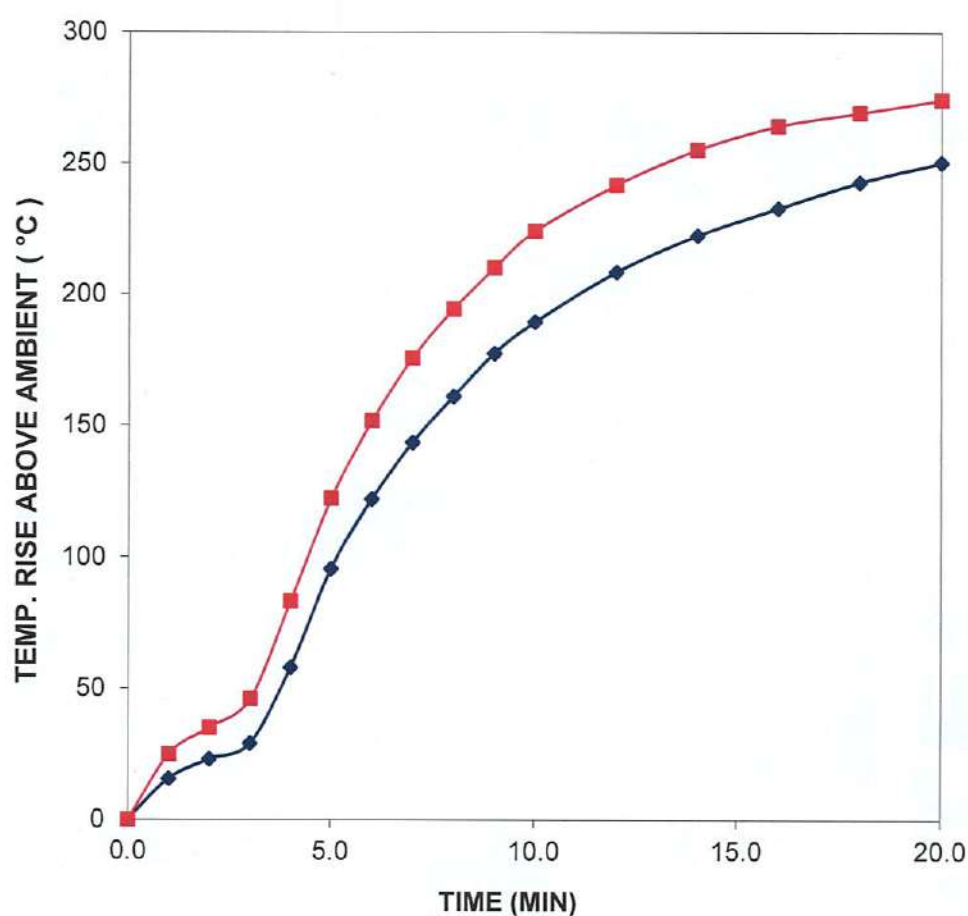
The test results relate only to the behavior of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



21 NOV 2017

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Product	: INSULATION MATERIALS (MINERAL WOOL)	Nominal Thickness	: 20 mm
Brand	: ECOWOOL	Measured Thickness	: 20 mm
Model	: Board; CLASSICTONE	Glasswool Density	: 80 kg/m ³
Type	: Glasswool with facing material	Mass Per Unit Area	: 1.91 kg/m ²
Date of Test	: 10.11.2017		



—◆— Calibration —■— Insulation Materials (Mineral Wool)



21 NOV 2017



This certificate has been

Awarded to

PGF INSULATION SDN BHD

Which is located at

**2449, LORONG PERUSAHAAN 10, KAWASAN PERUSAHAAN PERAI, 13600 PERAI,
PENANG, MALAYSIA.**

On Standard

ISO 9001 : 2015

Which the organization stated above had been assessed and found to be in accordance with the requirements of international Quality Management System.

PGF INSULATION SDN BHD
Under the Scope of

**PRODUCTION OF GLASSWOOL AND RELATED PRODUCTS FOR THERMAL AND
ACOUSTIC INSULATION.**

Original Issued Date : **27th September 2006**

Effective Date : **7th May 2024**

Expiration Date : **8th May 2027**

*Note: The **sticker** on the right top corner indicates the validity of the certificate. The expiration date of the certificate will be superseded once the sticker is not made present in the particular year as stated above.*

This certificate will be null and void if at any circumstances the compliance towards the standards stated above is not fulfilled. The compliance of the standards stated above will be indicated by the labelling on the right corner indicating the year of assessment. The validity of the certificate can also be traced to the audit report generated for each every assessment or through our website www.carecert.net



ACB 015

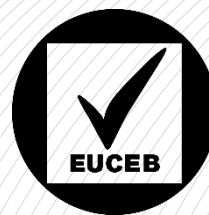
Fleming Teo
Managing Director

CARE Certification International (M) Sdn. Bhd.

CARE Certification International (M) Sdn. Bhd.

No 16-1 Jalan Flora 1/1, Blossom Square Bandar Rimbayu, 42500 Telok Panglima Garang, Selangor, Malaysia.

Email: reecheeteo@cciglobe.com



BCCA

EUCEB CERTIFICATE

BCCA, independent Certification Body designated by the scheme owner EUCEB,
declares that all requirements have been met to attest that the products
to which the right to use the EUCEB Trademark is granted and that are manufactured by

PGF Insulation SDN BHD - Malaysia

**LORONG PERUSAHAAN SEPULUH 2449, Kawasan Perusahaan Perai
MY - 13600 Perai, Penang**

in the plant situated at

Perai, Penang

are made of fibres with a chemical composition that lies within the chemical range of the reference fibre

Mineral Wool PGF801X

that has successfully been tested

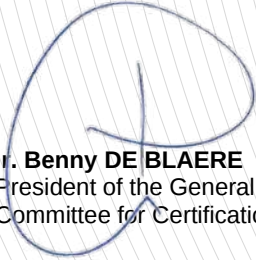
**in accordance with Note Q of the Regulation (EC) No 1272/2008
of the European Parliament and of the Council as currently in force**

as given in report No 02G22006 of 18 October 2022.

This certificate is granted on the basis of the Implementation Rules TRA-BEUC-511
for EUCEB Certification of mineral wool products.

**N° certificate BEUC-511-25893-475-25893 | Valid from 2023-01-17 until 2026-03-31
Furnace: PG 1**

Issued in Brussels, on 17 January 2023.


ir. Benny DE BLAERE
President of the General management
Committee for Certification & Approval

The validity of this certificate can be checked on the website www.bcca.be.
Further clarification regarding the scope of this certificate and the applicability
of the requirements of the standard may be obtained from the certified organisation.

BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION NPO
HEADQUARTERS: CANTERSTEEN, 47 BE-1000 BRUSSELS
OPERATIONAL HEADQUARTERS: HERMESLAAN, 9 BE-1831 DIEGEM
TEL. + 32 2 238 24 11
MAIL@BCCA.BE | WWW.BCCA.BE



PERAKUAN PEMATUHAN STANDARD (BAHAN BINAAN)

Adalah dengan ini Pengilang/Pengeluar yang dinyatakan di bawah ini telah mengeluarkan bahan binaan yang diperakui oleh Lembaga mengikut Bahagian VIIA Akta Lembaga Pembangunan Industri Pembinaan Malaysia (Pindaan 2011). Perakuan ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan. Perakuan ini mengesahkan bahawa bahan atau produk binaan yang dinyatakan di bawah telah diperakukan

No. Pendaftaran : 1141209PP0017
Nama Pengilang / Pengeluar : PGF INSULATION SDN BHD
Alamat Kilang Berdaftar : 2449, LORONG PERUSAHAAN 10, KAWASAN PERUSAHAAN
PERAI, PERAI,
13600
SEBERANG PERAI TENGAH
PULAU PINANG

Kategori Bahan Binaan :

INSULATION MATERIALS

(Rujuk LAMPIRAN A untuk butiran terperinci bahan atau produk binaan yang diperakukan)

Tarikh Mula Berkuatkuasa : 26-01-2025
Tarikh Tamat Tempoh Perakuan : 25-01-2026

Perakuan ini boleh diperbaharui bermula 60 hari sebelum tarikh tamat tempoh perakuan.

Nota: Perakuan dikeluarkan setelah Lembaga menjalankan pemeriksaan dan pengesahan ke atas kilang dan produk-produk yang terkandung di dalam Pensijilan Produk (Product Certification) yang dikeluarkan oleh Badan Pensijilan yang diiktiraf. Pihak pengeluar/pengilang adalah bertanggungjawab untuk memastikan Pensijilan Produk (Product Certification) sentiasa dalam tempoh sahlaku.

MOHAMAD NORSANI KATAP
PENGARAH
CIDB NEGERI PULAU PINANG
b.p Ketua Eksekutif



SIJIL INI ADALAH CETAKAN KOMPUTER DAN TIDAK MEMERLUKAN TANDATANGAN

SYARAT - SYARAT PERAKUAN PEMATUHAN STANDARD (PPS)

1. Syarat-syarat

- Perakuan ini tidak boleh dipindah milik.
- Lembaga berhak mengenakan apa-apa arahan berkenaan bahan binaan dan standard yang didaftarkan dalam PPS ini dari semasa ke semasa.
- Lembaga berhak pada bila-bila masa menjalankan pemeriksaan terhadap mana-mana pihak yang berurusan dengan mana-mana bahan binaan yang terkandung dalam Jadual Keempat.

2. Tanggungjawab Pemilik Sijil PPS

- Memahami dan mematuhi peruntukan-peruntukan Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994 Akta 520 (Pindaan 2011), peraturan-peraturan yang dibuat di bawahnya dan apa-apa terma, syarat-syarat atau sekatan yang dikenakan oleh Lembaga dari semasa ke semasa.
- Tidak boleh berurusan atau mengaku janji untuk berurusan, sama ada secara langsung atau tidak langsung, dengan bahan binaan yang dinyatakan dalam Jadual Keempat, melainkan jika bahan binaan itu telah diperakukan dan memperolehi PPS yang masih sah (belum tamat tempoh).
- Memastikan Sijil Produk/ Keputusan Pengujian Penuh yang dikeluarkan oleh Badan Pensijilan yang diiktiraf bagi bahan binaan yang diperakukan dalam perakuan ini sentiasa dalam tempoh sah laku.
- Mengemukakan Salinan sijil PPS ini kepada pembeli semasa urusan pembekalan, pemasaran, pemindahan dan penjualan sebagai bukti bahan binaan ini telah diperakui oleh Lembaga.
- Sentiasa memberi kerjasama dalam mengemukakan apa-apa maklumat yang dikehendaki oleh Lembaga dari semasa ke semasa.
- Memaklumkan kepada Lembaga jika ingin menamatkan, memindahkan atau apa-apa perubahan berkaitan operasi dan lokasi.
- Memahami dan bertanggungjawab terhadap produk-produk yang memerlukan pematuhan standard yang berterusan (pembaharuan) terutama yang melibatkan kualiti dan keselamatan kerja-kerja pembinaan, pekerja dan orang awam (Contoh; perancah, konkrit siap bancuh atau lain-lain yang berkaitan)

3. Tindakan Atas Perlanggaran Akta 520 CIDB

- Lembaga boleh mengambil tindakan pendakwaan mahkamah kepada mana-mana orang yang melanggar mana-mana peruntukan dalam Akta 520 dan apabila disabitkan, didenda tidak kurang daripada sepuluh ribu ringgit (RM10,000) tetapi tidak melebihi lima ratus ribu ringgit (RM500,000).
- Lembaga juga boleh mengenakan tindakan tatatertib terhadap mana-mana ketidakpatuhan yang dilakukan seperti berikut:-

Bil	Kesalahan	Hukuman
1	Berurusan dengan PPS yang tamat tempoh	Gantung, Batal PPS atau dikenakan penalti denda tidak lebih RM10,000 atau mana-mana tindakan gantung atau batal dan juga dikenakan penalti denda tidak lebih RM10,000
2	Memalsu atau mengubahsuai sijil PPS, Pensijilan Produk (PC), Keputusan Pengujian Penuh (FTTR) atau apa-apa dokumen berkaitan bagi maksud memperakui bahan binaan tersebut	
3	Melakukan apa-apa ketidakpatuhan terhadap bahan binaan yang diperiksa atau berdasarkan keputusan ujian atau kedua-duanya	
4	Melanggar mana-mana arahan Lembaga, akujanji atau akuan tanggungjawab yang dikeluarkan	
5	Berurusan dengan mana-mana bahan binaan yang tiada di dalam senarai sijil PPS	
6	Walau bagaimanapun bagi PC yang telah digantung, dibatal atau lain-lain tindakan oleh Badan Persijilan (CB)	PPS tersebut akan digantung atau dibatalkan
7	Pemohon membatalkan atau menggantung PPS secara sukarela	

- Lembaga tidak akan bertanggungjawab terhadap apa-apa kerugian atau kos-kos yang terlibat hasil dari tindakan ketidakpatuhan yang dilakukan dan ianya merupakan tanggungjawab pengeluar, pengilang atau mana-mana orang yang berurusan sepenuhnya.

Catatan : PPS yang telah diputuskan dan dibatalkan oleh Jawatankuasa tatatertib tidak boleh diperbaharui sehingga tempoh maksima 2 tahun. Perlanggaran arahan tersebut dan masih berurusan dengan bahan yang tidak diperakukan akan mengakibatkan pemohon disenarai hitam dari memohon PPS selamanya dan tindakan pendakwaan mahkamah dengan denda maksima RM500,000.

No. Pendaftaran : 1141209PP0017
Nama Pengilang / Pengeluar : PGF INSULATION SDN BHD

Kategori	Jenis / Saiz	Jenama	Standard
INSULATION MATERIALS	Mineral Wool - Glass Model : Board; ECOWOOL CLASSIC Rating : Density range: (24 - 96) kg/m ³ Fire Propagation Index: 3.9, 6.8, 6.8, 7.1 Surface Spread of Flame: Class 1 Fire Classification: CLASS 0 Type : Glasswool Size :Width range: (0.595 - 1.2) m Length range: (0.595 - 2.3) m Thickness range: (13 - 50) mm	ECOWOOL	MS 1020:2022
	Mineral Wool - Glass Model : Roll; ECOWOOL CLASSIC Rating : Density range: (10 - 48) kg/m ³ Fire Propagation Index: 1.5, 2.7, 4.3, 3.4, 3.8, 7.3 Surface Spread of Flame: Class 1 Fire Classification: CLASS 0 Type : Glasswool Size :Width: 1.2 m Length range: (7.5 - 30) m Thickness range: 1. (10 - 14) kg/m ³ : 50 mm 2. (14 - 48) kg/m ³ : (25 - 50) mm	ECOWOOL	MS 1020:2022
	Mineral Wool - Glass Model : Roll; DuctGuard Rating : Density: 32 kg/m ³ Fire Propagation Index: 5.0, 7.2 Surface Spread of Flame: Class 1 Fire Classification: CLASS 0 Type : Glasswool with Facing Material Size : 50mm(t) x 1.2m(w) x 7.5m(l), 25m(t) x 1.2m(w) x 15m(l)	ECOWOOL	MS 1020:2022

Mineral Wool - Glass Model : Board; CLASSIC VENTLINER Rating : Density: 32 kg/m ³ Fire Propagation Index: 9.2, 9.7 Surface Spread of Flame: Class 1 Fire Classification: Class 0 Type : Glasswool with Facing Material Size : Thickness : (25 - 50) mm Width : 1.2m Length : (1.20 - 2.44) m	ECOWOOL	MS 1020:2022
Mineral Wool - Glass Model : Board; BROWNIE V2 Rating : Density range: (24 - 96) kg/m ³ Fire Propagation Index: 3.9, 6.8, 6.8, 7.1 Surface Spread of Flame: Class 1 Fire Classification: CLASS 0 Type : Glasswool Size :Width range: (0.595 - 1.2) m Length range: (0.595 - 2.3) m Thickness range: (13 - 50) mm	ECOWOOL	MS 1020:2022
Mineral Wool - Glass Model : Batts; BROWNIE V2 Rating : Density range: 20 kg/m ³ Fire Propagation Index: 4.2 Surface Spread of Flame: Class 1 Fire Classification: CLASS 0 Type : Glasswool Size :Width: 0.6 m Length: 1.2 m Thickness: 50 mm	ECOWOOL	MS 1020:2022
Mineral Wool - Glass Model: Roll; BROWNIE V2; Rating: Density range: (10 - 48) kg/m ³ , Fire Propagation Index: 1.5, 2.7, 4.3, 3.4, 3.8, 7.3, 1.3, 2.9, 2.2, 8.0, 7.8, Surface Spread of Flame: Class 1, Fire Classification: CLASS 0; Type: Glasswool; Size: Width: (1.2 - 1.5) m, Length range: (5 - 30) m, Thickness range: 1. (10 - 14) kg/m ³ : 50 mm, 2. (14 - 48) kg/m ³ : (25 - 50) mm, 3. (14 - 24) kg/m ³ : (75 - 120) mm	ECOWOOL	MS 1020:2022

Mineral Wool - Glass	ECOWOOL	MS 1020:2022
Model : Roll; BROWNIE V2		
VENTLINER Rating : Density: 32		
kg/m ³ Fire Propagation Index: 6.6,		
3.0 Surface Spread of Flame: Class		
1 Fire Classification: CLASS 0		
Type : Glasswool with Facing		
Material Size : 25mm(t) x 1.2m(w)		
x 15m(l) 50mm(t) x 1.2m(w) x		
7.5m(l)		

Mineral Wool - Glass	ECOWOOL	MS 1020:2022
Model : Roll; BROWNIE V2		
ROOFWHITE Rating : Density:		
(16, 24, 32 & 48) kg/m ³ Fire		
Propagation Index: 8.8, 9.1, 8.8,		
7.7 Surface Spread of Flame: Class		
1 Fire Classification: CLASS 0		
Type : Glasswool with Facing		
Material Size : Length: (5 – 15) m,		
Width: 1.2 m Thickness: 50 mm ;		
Density: (16, 24, 32 & 48) kg/m ³		
Thickness: (75 - 100) mm ;		
Density: (16 & 24) kg/m ³		

No. Fail: JBPM.IP.RNP: 700-7/2/7-296 (24)
(PEMBAHARUAN: KESEBELAS)

SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia
dengan ini memperakukan
*Fire and Rescue Department of Malaysia
hereby certify*

BAHAN KELAS 'O' / CLASS 'O'
(MODEL: CLASSICTONE)

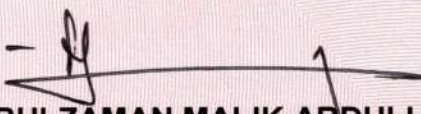
Berdasarkan Piawaian
Complying with

BS 476: PART 6: 1989 + A1: 2009 & BS 476: PART 7: 1997

Syarikat Berdaftar
Registered company

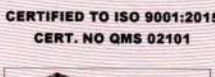
PGF INSULATION SDN BHD (228905-M)
No. 2449, Lorong Perusahaan Sepuluh
Kawasan Perusahaan Perai
13600 Perai
Pulau Pinang

Tempoh sah perakuan: **11/04/2024 hingga 11/04/2026**


(KAMARULZAMAN MALIK ABDULLAH)

Pengarah
Bahagian Perancangan dan Penyelidikan
b.p. Ketua Pengarah
Jabatan Bomba dan Penyelamat Malaysia

Tarikh: 29 Mac 2024



**** Peringatan:**

Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

Jenis Bahan Binaan	: BAHAN KELAS 'O' / CLASS 'O' ▪ GLASS MINERAL WOOL FACED WITH PRINTED GLASS TISSUE
Jenama & Spesifikasi	: BRAND : POLYGLASS, ECOWOOL MODEL : CLASSICTONE TYPE : GLASSWOOL WITH FACING MATERIAL GLASSWOOL DENSITY : 80 kg/m³ NOMINAL THICKNESS : 15.0 mm & 20.0 mm
Tahap Rintangan Api	: KELAS 'O' / CLASS 'O' ▪ FIRE PROPAGATION INDEX, (I) : <u>6.8</u> & <u>9.3</u> ▪ SURFACE SPREAD OF FLAME TEST: <u>CLASS 1</u>
Nama & Alamat Pengeluar	: PGF INSULATION SDN BHD (228905-M)
No. Laporan Ujian / Tarikh	: SIRIM 2012FE0162, SIRIM 2012FE0102, SIRIM 2017FE0636 (21/11/2017), SIRIM 2017FE0637 (21/11/2017), SIRIM 2017FE0638 (21/11/2017) & SIRIM 2017FE0639 (21/11/2017)
Skim Persijilan Barangan	: SIRIM QAS INT. NO. LESEN: FL000012, NO. SIRI: 096031 (SAH SEHINGGA 12/04/2025)
Had Kegunaan	: PEMASANGAN SEBAGAI BAHAN KELAS 'O' SAHAJA. TIDAK DIBENARKAN SEBAGAI 'PARTY WALL'. PEMASANGAN SEBAGAI 'EXTERNAL CLADDING SYSTEM' ADALAH TERHAD KEPADA BANGUNAN BERKETINGGIAN 18 METER KEBAWAH SAHAJA. PEMASANGAN HENDAKLAH MEMATUHI SPESIFIKASI SEPERTIMANA DALAM LAPORAN UJIAN DAN UBBL 1984 SERTA PERLU MEMATUHI SYARAT-SYARAT TAMBAHAN SEPERTI DI LAMPIRAN A2 & A3.

Tempoh sah perakuan: **11/04/2024 hingga 11/04/2026**



SISTEM/ALAT KELENGKAPAN/BAHAN BINAAN/PINTU RINTANGAN API

Perakuan ini tertakluk kepada syarat-syarat berikut:-

1. Sijil Perakuan ini tidak boleh dipindah milik tanpa kebenaran Jabatan ini.
2. ***Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** yang dikeluarkan hendaklah menepati spesifikasi sample dan seperti di dalam laporan ujian.
3. Sebarang perubahan / tambahan daripada spesifikasi komponen yang asal hanya boleh dilakukan dengan terlebih dahulu mendapat kebenaran bertulis daripada Jabatan Bomba dan Penyelamat, Malaysia.
4. Dalam hal-hal tertentu pengeluaran dan mutu **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** hendaklah menepati syarat-syarat yang ditetapkan oleh SIRIM atau Skim Kawalan Mutu yang diiktiraf oleh Jabatan Bomba dan Penyelamat, Malaysia.
5. Apabila terdapat pindaan atau pembaharuan pada syarat/piawai, pengeluar / pengedar akan diberi tempoh masa yang ditetapkan oleh Jabatan Bomba dan Penyelamat, Malaysia untuk meminda atau mengubah spesifikasi asal **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** mengikut syarat-syarat piawaian yang baru tersebut.
6. Semua **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** perlu mempunyai nama pengeluar, nombor siri, tarikh dikeluarkan dan tanda 'SIRIM' atau lain-lain tanda skim diiktiraf oleh Jabatan Bomba dan Penyelamat, Malaysia (jika berkaitan).
7. Jabatan Bomba dan Penyelamat, Malaysia adalah berhak untuk memilih mana-mana sample **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** yang telah dikeluarkan ATAU dipasang untuk dikaji dan jika perlu diuji semula. Sebarang kos perbelanjaan adalah ditanggung oleh pengeluar.
8. Pengeluar / Pengedar hendaklah mengemukakan salinan sah surat perakuan ini bagi penggunaan pengedaran **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** yang berkenaan kepada Jabatan ini.



(Pegawai Penyemak)

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9. Pengeluar/pengedar **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** hendaklah mengemukakan surat pengesahan Lampiran C1 / C2* ke Jabatan ini (kepada Pengarah Negeri dan salinan ke Ibu Pejabat JBPM) bahawa ia telah melaksanakan pengawasan / pemasangan / perbekalan* seperti piawaian yang disahkan oleh SIRIM dan Jabatan Bomba dan Penyelamat, Malaysia.
10. Arkitek atau Jurutera Perunding Bertauliah hendaklah memastikan dan mengawasi semua kerja-kerja pemasangan yang dilakukan oleh kontraktor / pemasangan dan mengesahkannya dengan menghantar surat pengesahan Lampiran C3 ke Jabatan ini (Bahagian Keselamatan Kebakaran) sebelum atau semasa pemeriksaan bangunan.
11. Pemasangan **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** hendaklah disahkan oleh pengeluar atau Jurutera Bertauliah/Arkitek bahawa telah mematuhi spesifikasi pengeluar atau kod-kod yang diiktiraf.
12. Jika terdapat apa-apa kejadian atau laporan munasabah yang menunjukkan kegagalan prestasi kepada **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** atau tidak mematuhi syarat-syarat yang terkandung dalam Uniform Building By-Law (UBBL 1984) serta Arahan Jabatan hendaklah segera dilaporkan kepada Jabatan Bomba dan Penyelamat, Malaysia. Jabatan berhak menarik balik Sijil Perakuan dengan notis atau tanpa notis.
13. Pegawai Bomba juga boleh membuat pemeriksaan mengejut (*random inspection / checking*) ke atas kilang pembuat atau pemasangan untuk menentukan tiada penyelewengan dari segi mutu dan spesifikasi **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api**.
14. Surat perakuan ini, keseluruhan ATAU sebahagian daripadanya adalah tidak boleh diterbitkan ATAU digunakan untuk apa-apa tujuan promosi ATAU pengiklanan sama ada pada media cetak ATAU pada mana-mana tempat dengan apa-apa cara sekalipun tanpa mendapat kebenaran bertulis daripada Jabatan Bomba dan Penyelamat, Malaysia.

* Nota rujukan bagi Had Kegunaan: 'party wall' – dinding pemisah antara dua pihak dan 'fire wall' (proscenium wall, compartment wall, separating wall & protecting structure).



(Pegawai Penyemak)

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PEMBAHARUAN SIJIL PERAKUAN

1. Untuk permohonan memperbaharui sesuatu Sijil Perakuan/Kelulusan Jabatan, permohonan tersebut hendaklah disampaikan ke pejabat ini **SEBULAN** sebelum tarikh perakuan ini tamat:-
 - 1.1 Permohonan bertulis bagi setiap sijil kelulusan bahan;
 - 1.2 Salinan Laporan Ujian terbaru dari SIRIM atau mana-mana makmal yang diiktiraf jika berkaitan. *Mana-mana laporan ujian dari luar negara hendaklah disahkan melalui Borang Akuan Berkanun (Borang AM80) dan diperakukan dihadapan Pesuruhjaya Sumpah tempatan (Commissioner of Oath);*
 - 1.3 Salinan sijil barangan SIRIM / Badan Persijilan Luar Negara (semak kesahan sijil) bagi produk kawalan. *Sijil hendaklah disahkan melalui Borang Akuan Berkanun (Borang AM80) dan diperakukan dihadapan Pesuruhjaya Sumpah tempatan (Commissioner of Oath);*
 - 1.4 Salinan Sijil Perakuan / Kelulusan terdahulu termasuk Lampiran A1.
 - 1.5 Senarai Lengkap projek sepanjang tempoh sah / 'validity' kelulusan tersebut.
 - 1.6 Mengadakan kemudahan pemeriksaan bagi penilaian semula **Sistem / Alat Kelengkapan / Bahan Binaan / Pintu Rintangan Api** sekiranya diperlukan.
2. Kegagalan tuan mematuhi perkara di atas akan mengakibatkan Sijil Pepasangan Keselamatan Kebakaran yang dimohon tidak akan diproses dan diperbaharui.
3. Adalah menjadi kesalahan jika semua perkara di atas dilanggari dan Jabatan Bomba dan Penyelamat Malaysia berhak menarik balik surat perakuan ini sebelum tamat tempohnya.
4. Sebarang pertanyaan berkaitan permohonan pembaharuan perlu disertakan dengan nombor rujukan fail seperti **JBPM.IP.RNP: 700-7/2/Kod Bahan – No. Pendaftaran Bahan** yang terdapat di penjuru atas kanan Sijil Pepasangan Keselamatan Kebakaran



(Pegawai Penyemak)

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