



WARRANTY Certificate



The Warranty for EK Ecoline Chemical Resistant Industrial Roofing Sheet. Manufactured by Lgylan Industries Sdn Bhd is to the original consumer purchaser to be free from defected in material for a period of (10) ten years the date of INSTALLATION .

For (10) Ten Years Warranty Roofing Thickness From 1.50mm to 2.00mm

THIS WARRANTY IS SUBJECT TO THE FOLLOWING EXPRESS TERMS & CONDITIONS :-

- 1.) The Product is installed strictly in accordance to the Manufacturer's specifications and recommendations at time of installation .
- 2.) All fixing and accessories must be recommended and or manufactured by the Manufacturer .
- 3.) Attack from chemical agents, organic solvents, fumes, liquids, and solids other than direct rain falling on to the products are still under warranty .
- 4.) Performance party or wholly due to the following causes are not covered by this warranty :-
 - a Mechanical, chemical (Organic or otherwise) or other damage sustained during handling, storage, erection or subsequent to erection .
 - b Storm and tempest or other Acts of God .
 - c Contact with and or failure to remove any corrosive agents and or moisture retaining substance.
 - d Failure to provide proper drainage system to maintain and keep the product from trapping water or others including internal condensation .
 - e Cracking, contortions and any damage of the product caused by supporting battens and purlins.
 - f Tampering, alteration or repairing by any unauthorized person .
- 5.) Should there be any cracking or perforation occurring during the warranty period, the Manufacturer shall be limited exclusively to replace those affected sheets free of charges with no extra labor cost
- 6.) The Manufacturer shall not be liable for any injury to persons, damage to property or any consequential damage arising from the use of the product .
- 7.) This warranty is solely extended to the owner of the specific project and is given in lieu of all other conditions of warranties implied except to the extent that any law applicable to this contract prevents the exclusion, restriction or modifications of such conditions of warranties.
- 8.) Warranty due to leakage from installed screws will only be given if the screw used are EK Ecoline Chemical Resistant Roofing Screw (Self Drilling Screw with Hard Nylon Hexagon Head). Leakage caused by ordinary screws should be deemed worthy of warranty

Project : _____

Customer / Dealer : _____

Owner : _____

Total Value (RM) : _____

Date of Order : _____

Date of Delivery : _____

Bill Reference No : _____

Project Location : _____

Total Consumption : _____

Sample Warranty

Authorized Signatory
Lgylan Industries Sdn Bhd.
Lot 17569 & 17579, Jalan Nilai 3/29,
Kawasan Perindustrian Nilai 3,
71800 Nilai, Negeri Sembilan Darul Khusus.
Tel : 06 -7998998 Fax :06-7998228





WARRANTY Certificate



The Warranty for EK Ecoline Chemical Resistant Industrial Roofing Sheet. Manufactured by Lgylan Industries Sdn Bhd is to the original consumer purchaser to be free from defected in material for a period of (15) ten years the date of INSTALLATION .

For (15) Fifteen Years Warranty Roofing Thickness From 2.20mm to 2.50mm

THIS WARRANTY IS SUBJECT TO THE FOLLOWING EXPRESS TERMS & CONDITIONS :-

- 1.) The Product is installed strictly in accordance to the Manufacturer's specifications and recommendations at time of installation .
- 2.) All fixing and accessories must be recommended and or manufactured by the Manufacturer .
- 3.) Attack from chemical agents, organic solvents, fumes, liquids, and solids other than direct rain falling on to the products are still under warranty .
- 4.) Performance party or wholly due to the following causes are not covered by this warranty :-
 - a Mechanical, chemical (Organic or otherwise) or other damage sustained during handling, storage, erection or subsequent to erection .
 - b Storm and tempest or other Acts of God .
 - c Contact with and or failure to remove any corrosive agents and or moisture retaining substance.
 - d Failure to provide proper drainage system to maintain and keep the product from trapping water or others including internal condensation .
 - e Cracking, contortions and any damage of the product caused by supporting battens and purlins.
 - f Tampering, alteration or repairing by any unauthorized person .
- 5.) Should there be any cracking or perforation occurring during the warranty period, the Manufacturer shall be limited exclusively to replace those affected sheets free of charges with no extra labor cost
- 6.) The Manufacturer shall not be liable for any injury to persons, damage to property or any consequential damage arising from the use of the product .
- 7.) This warranty is solely extended to the owner of the specific project and is given in lieu of all other conditions of warranties implied except to the extent that any law applicable to this contract prevents the exclusion, restriction or modifications of such conditions of warranties.
- 8.) Warranty due to leakage from installed screws will only be given if the screw used are EK Ecoline Chemical Resistant Roofing Screw (Self Drilling Screw with Hard Nylon Hexagon Head). Leakage caused by ordinary screws should be deemed worthy of warranty

Project : _____

Customer / Dealer : _____

Owner : _____

Total Value (RM) : _____

Date of Order : _____

Date of Delivery : _____

Bill Reference No : _____

Project Location : _____

Total Consumption : _____

Sample Warranty

Authorized Signatory
Lgylan Industries Sdn Bhd.
Lot 17569 & 17579, Jalan Nilai 3/29,
Kawasan Perindustrian Nilai 3,
71800 Nilai, Negeri Sembilan Darul Khusus.
Tel : 06 -7998998 Fax :06-7998228





WARRANTY Certificate



The Warranty for EK Ecoline Chemical Resistant Industrial Roofing Sheet. Manufactured by Lgylan Industries Sdn Bhd is to the original consumer purchaser to be free from defected in material for a period of (20) twenty years the date of INSTALLATION .

For (20) Twenty Years Warranty Roofing Thickness From 2.80mm to 3.00mm

THIS WARRANTY IS SUBJECT TO THE FOLLOWING EXPRESS TERMS & CONDITIONS :-

- 1.) The Product is installed strictly in accordance to the Manufacturer's specifications and recommendations at time of installation .
- 2.) All fixing and accessories must be recommended and or manufactured by the Manufacturer .
- 3.) Attack from chemical agents, organic solvents, fumes, liquids, and solids other than direct rain falling on to the products are still under warranty .
- 4.) Performance party or wholly due to the following causes are not covered by this warranty :-
 - a Mechanical, chemical (Organic or otherwise) or other damage sustained during handling, storage, erection or subsequent to erection .
 - b Storm and tempest or other Acts of God .
 - c Contact with and or failure to remove any corrosive agents and or moisture retaining substance.
 - d Failure to provide proper drainage system to maintain and keep the product from trapping water or others including internal condensation .
 - e Cracking, contortions and any damage of the product caused by supporting battens and purlins.
 - f Tampering, alteration or repairing by any unauthorized person .
- 5.) Should there be any cracking or perforation occurring during the warranty period, the Manufacturer shall be limited exclusively to replace those affected sheets free of charges with no extra labor cost
- 6.) The Manufacturer shall not be liable for any injury to persons, damage to property or any consequential damage arising from the use of the product .
- 7.) This warranty is solely extended to the owner of the specific project and is given in lieu of all other conditions of warranties implied except to the extent that any law applicable to this contract prevents the exclusion, restriction or modifications of such conditions of warranties.
- 8.) Warranty due to leakage from installed screws will only be given if the screw used are EK Ecoline Chemical Resistant Roofing Screw (Self Drilling Screw with Hard Nylon Hexagon Head). Leakage caused by ordinary screws should be deemed worthy of warranty

Project : _____

Customer / Dealer : _____

Owner : _____

Total Value (RM) : _____

Date of Order : _____

Date of Delivery : _____

Bill Reference No : _____

Project Location : _____

Total Consumption : _____

Sample Warranty

Authorized Signatory
Lgylan Industries Sdn Bhd.
Lot 17569 & 17579, Jalan Nilai 3/29,
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71800 Nilai, Negeri Sembilan Darul Khusus.
Tel : 06 -7998998 Fax :06-7998228





SIRIM QAS International Sdn. Bhd.
(Company No.: 199601037981 (410334-X))
No.1, Persiaran Dato' Menteri, P.O.BOX 7035, Section 2,
40700 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: 03-55445855
Fax: 03-55445886
www.sirim-qas.com.my

TEST REPORT

REPORT NO : 2020CB0719	PAGE : 1 OF 4
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 Chief Executive Officer, SIRIM QAS International Sdn. Bhd. Please refer the last page for Conditions Relating to the Use of Test Report.	

THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : LGYLAN INDUSTRIES SDN. BHD.
Lot 17569 & 17579 Jalan Nilai 3/29,
Kawasan Perindustrian Nilai 3,
71800 Nilai, Negeri Sembilan, Malaysia.

Manufacturer : LGYLAN INDUSTRIES SDN. BHD.

Product : EK Industrial UPVC Roofing

Reference Standard / Method of Test : ISO 10140 – 2: 2010
Acoustics – Laboratory Measurement of Sound Insulation of Building Elements
Part 2: Measurement of Airborne Sound Insulation

Description of sample : EK Industrial UPVC Roofing was installed to the test opening by the applicant. The installation covered the whole of test opening with dimension of 3.6 meter in height x 2.8 meter in width.

Brand: EK
Model: ECL
Type: uPVC
Nominal Thickness: 2 mm
Nominal Density: 1380 kg/m3


Date Received of Complete Application : 17 October 2020

Job No. : J20201430650

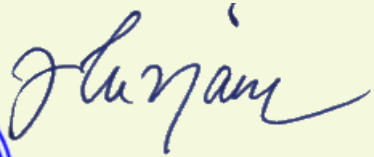
Description of Test Results : The test results of the submitted test samples are described in page 4 of this test report.

Issued Date : 17 November 2020

Approved Signatory;


.....
(ZAIMAR BIN MOHD JANUDIN)
Testing Executive




.....
(NUR SIHA BINTI RAJA ABDUL HANAN)
Head
Civil & Construction Section
Testing Services Department

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- Reference : ISO 10140 – 2: 2010
Acoustics – Laboratory Measurement of Sound Insulation of Building Elements
Part 2: Measurement of Airborne Sound Insulation
- Reverberation Room : The test laboratory consists of two interconnected reverberant chambers. The source room (Chamber 1) has a volume of 202.2 m³ and a total surface area of 209 m². Receiving room (chamber 2) has a normal volume of 268 m³ and total surface area of 253 m².
- Instrumentation : 1) B&K Sound Omni-Directional Sound Source - Type 4292-L
2) B&K Rotating Microphone Boom Type 3923
3) Pulse & Classifier Software
4) B&K Type 3560C Front-end
5) Acoustical Calibrator Rion NC-74 / Gras 42AB
- Test Procedure : The test has been conducted in general conformance with the ISO 10140 – 2: 2010, Acoustics – Laboratory Measurement of Sound Insulation of Building Elements, Part 2: Measurement of Airborne Sound Insulation.

The test specimen was installed in the test opening in between two reverberation chambers. An approximate diffuse sound field had been produced and measured in one room designated as the source room.

The sound reduction index (in dB) had been calculated at one-third octave centre frequency from 100 Hz to 5000 Hz. The calculated sound reduction index data was compared with the standard reference contour to obtain a single number weighted sound reduction index (R_w).

$$R_w = L_1 - L_2 + 10 \log (S/A)$$

Where,

- L₁ = Average sound pressure level in source chamber
L₂ = Average sound pressure level in receiving chamber
S = Area of test specimen
A = Sound absorption coefficient

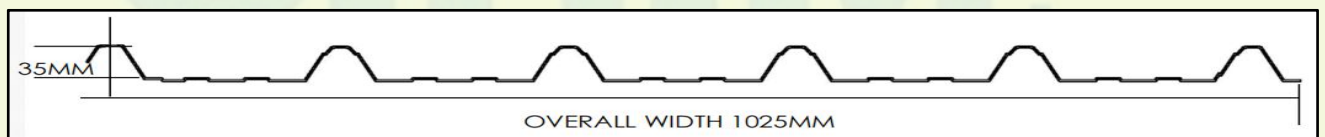


Diagram 1: Cross section view of the tested sample.

- Note: 1) Testing date/period 09th November 2020 to 12th November 2020.
2) Testing was conducted at Block 22, SIRIM Complex.
3) Where the reported uncertainty is calculated using a coverage factor k=2, which gives a level of confidence of approximately 95%.



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Photo 1: Test setup for testing of sample in Receiving Room



Photo 2: Test setup for testing of sample in Source Room



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Product Name : EK Industrial UPVC Roofing
 Brand : EK
 Model : ECL
 Type : uPVC
 Nominal Thickness : 2 mm
 Nominal Density : 1380 kg/m³
 Test Condition : Temperature = 28.5 °C Humidity = 61.2 %

Table 1: Sound Reduction from frequency of 100 Hz to 5000 Hz

Frequency (Hz)	Sound Reduction Index (dB)	Reference (dB)
100	28.8	9
125	23.1	12
160	20.3	15
200	23.7	18
250	20.1	21
315	20.8	24
400	20.1	27
500	22.0	28
630	27.5	29
800	21.1	30
1000	30.4	31
1250	30.0	32
1600	31.6	32
2000	31.3	32
2500	34.8	32
3150	34.9	32
4000	36.3	32
5000	30.3	32
Rw	28 ± 1 dB	

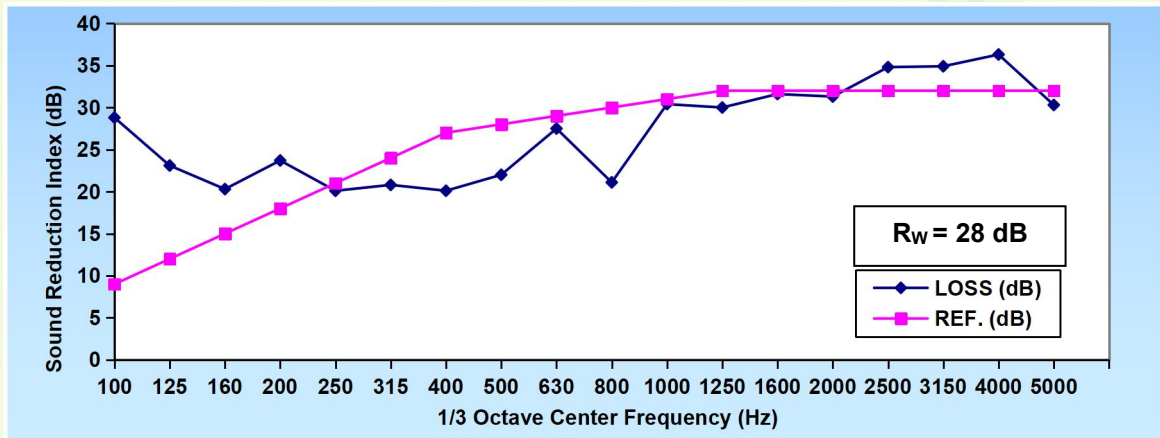


Figure 1: Tabulated data of Sound Reduction Index for frequency of 100 Hz to 5000 Hz



		
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CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. When a statement of conformity to a specification or standard is applied, the Measurement Uncertainty of test has been considered.
2. The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory, etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, brochures/flyers or any other means without the prior written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International.
6. If such approval is obtained from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International (Test Report No) ... (dated) (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Chief Executive Officer of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
 - a) Informing and placing a notice in the media;
 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, certified true copy(ies) of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
 - a) Changes in details of the Applicant name and/or address;
 - b) Changes in details of the Manufacturer's name and/or address;
 - c) Changes in details of the Factory location name and/or address;
 - d) Changes in details of the model and/or type designation
12. However, issuance of Supplementary Report due to the following reasons are FOC :
 - a) Misprints and typo errors;
 - b) Missing technical information as agreed in PP1 form;
 - c) Test data not reported;
 - d) Mistake in reporting of test data
13. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.

TEST REPORT

REPORT NO.: 2018PC0625

PAGE : 1 OF 6

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Applicant : LGYLAN INDUSTRIES SDN. BHD.
Lot 17569 & 17579 Jalan Nilai 3/29
Kawasan Perindustrian Nilai 3
71800 Nilai
Negeri Sembilan

Manufacturer : - same as above -

Product : EK Ecoline uPVC Industrial Roofing
Brand: EK
Model: ECL 26, ECL 35, ECL 45 and ECL 48

Reference Standard/
Method of Test : Please refer to Page 2 of this test report.

Description of Sample : Please refer to Figure 1 in Page 3 of this test report.

Date Received of
Complete Application : 29 August 2018

Job No. : J20181460523

Description of Test
Results : The test results of the submitted test samples are described in
Pages 4 to 6 of this test report.

Issued Date : 7 September 2018

Approved Signatories:



(Ir Zarina Rasmin)
Senior Consultant



(Rahmad Abd Shukor)
Head
Plastics and Composite Materials Section
Testing Services Department

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Methods of Test:

1. ASTM D792: 2013 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
2. ASTM D638: 2014 - Standard Test Method for Tensile Properties of Plastics
3. ASTM D790: 2015^{e1} - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
4. ASTM D543: 2014 - Standard Practice for Evaluating the Resistance of Plastic to Chemical Reagent
5. ASTM D570: 1998 (Reapproved 2010)^{e1} - Standard Test Method for Water Absorption of Plastic
6. ASTM D256: 2010^{e1} - Standard Test Methods for Determining the Izod Impact Resistance of Plastics
7. ASTM D1525: 2009 – Standard Test Method for Vicat Softening Temperature of Plastics
8. Agreed Test Method 006 – Test Method for Falling Ball Impact – Drop Freely Certain Weight of Steel Ball from a Pre-determined Height



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Description of Sample:

The following samples with approximate dimensions of 1000 mm (L) x 270 mm (W) were received on 28 August 2018:



Figure 1. Photograph of 'EK Ecoline uPVC Industrial Roofing; Brand: EK' Sample

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Results:**EK Ecoline uPVC Industrial Roofing****Brand: EK****Model: ECL 26, ECL 35, ECL 45 and ECL 48**

NO.	PROPERTY	RESULT	TEST METHOD
1	Density, g/cm ³	1.38	ASTM D792 Method A Temperature of water: 24.7°C Number of specimens tested: 3 Date of test: 3 September 2018
2	Tensile Strength, MPa	41.0	ASTM D638 Test speed: 50 mm/minute Span Length: 50 mm Number of specimens tested: 5 Date of test: 30 August 2018
3	Elongation at Break, %	150	
4	Flexural Strength, MPa	66.6	ASTM D790 Crosshead speed: 0.8 mm/minute Support span length: 31 mm Number of specimens tested: 5 Date of test: 3 September 2018
5	Flexural Modulus, MPa	2,530	



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Results (Continued):

EK Ecoline uPVC Industrial Roofing

Brand: EK

Model: ECL 26, ECL 35, ECL 45 and ECL 48

NO.	PROPERTY	RESULT	TEST METHOD
6	Falling Ball Impact*	No crack was observed during the test.	Agreed Test Method 006 Test height: 1500 mm Steel ball weight: 1 kg Number of drops: 10 times at different positions. Date of test: 3 September 2018
7	Resistance to 10% Hydrochloric Acid* • Change in Length, % • Change in Width, % • Change in Weight, %	 0.04 0.04 0.03	ASTM D543 Duration: 24 hours Temperature: 23°C Number of specimens tested: 3 Date of test: 4 to 5 September 2018
8	Resistance to 10% Sodium Hydroxide* • Change in Length, % • Change in Width, % • Change in Weight, %	 0.04 0.03 0.05	

Note: *Not SAMM Accredited



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Results (Continued):

EK Ecoline uPVC Industrial Roofing

Brand: EK

Model: ECL 26, ECL 35, ECL 45 and ECL 48

NO.	PROPERTY	RESULT	TEST METHOD
9	Water Absorption, %*	0.06	ASTM D570 Duration: 24 hours Temperature: 23°C Number of specimens tested: 5 Date of test: 3 to 4 September 2018
10	Izod Impact Strength, kJ/m ² • Type of break	408 Partial Break [#]	ASTM D256 Hammer: 7.5 Joules Sample type: Notched Number of specimens tested: 10 Date of test: 4 September 2018
11	Vicat Softening Temperature, °C*	98	ASTM D1525 Load: 1 kg Heating Rate: 120 °C/hour Penetration: 1 mm Number of specimens tested: 2 Date of test: 5 September 2018

Note:

- *Not SAMM Accredited
- [#]Partial Break – An incomplete break that does not meet the definition for a hinge break but has fractured at least 90% of the distance between the vertex of the notch and the opposite side.



CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

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2. The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Managing Director of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory, etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, brochures/flyers or any other means without the prior written approval from the Managing Director of SIRIM QAS International.
6. If such approval is obtained from the Managing Director of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International ... (Test Report No) ... (dated) (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
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 - a) Informing and placing a notice in the media;
 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. Certified true copies of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Corrections to test report shall only be allowed within 6 months from issuance date of the test report and shall be limited to maximum 3 times, after either case whichever occurs earlier, a new test report shall be issued and replace the previous one (having error(s) or lack of information). Issuance of Supplementary Report to the original Test Report shall be for the followings;
 - a) Misprints and typo errors
 - b) Missing technical information
 - c) Test data not reported
 - d) Mistake in reporting of test data

TEST REPORT

REPORT NO.: 2022FE0227

PAGE : 1 OF 40

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Applicant : **LGYLAN INDUSTRIES SDN BHD**
Lot 17569 & 17579 Jalan Nilai 3/29
Kawasan Perindustrian Nilai 3
71800 Nilai, Negeri Sembilan, Malaysia.
(Attn.: Ms Catherine Lui)

Manufacturer : **Same as above**

Product : **UPVC WALL CLADDING CORRUGATED SHEET**

Reference Standard/
Method of test : **BS8414 Part 1:2020**
Part 1: Test method for non-loadbearing external cladding systems applied to the masonry face of a building.

Description of test
specimen : Brand : EK Ecoline
Type : Corrugated Sheet
Model : Profile ECL 35, Profile ECL 27
Test specimen was installed and tested at SIRIM, No1A, Persiaran Zurah, Kawasan Perindustrian RASA, 44200 Rasa, Hulu Selangor, Selangor Darul Ehsan.
Date of test: 15 April 2022

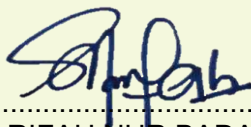
Date Received : 11 February 2022

Testing Location : Test specimen was installed and tested at SIRIM, No1A, Persiaran Zurah, Kawasan Perindustrian RASA, 44200 Rasa, Hulu Selangor, Selangor Darul Ehsan.

Job No. **J20221440084**

Overall test result : The test result of the submitted test sample is described in **APPENDIX 5** of this test report (**Page 38 and 39**)

Issued date : 11 May 2022



(SHARIFAH NUR BADARIAH)
Senior Testing Executive



(ZAINI AHMAD)
Head
Fire Protection Section
Testing Services Department

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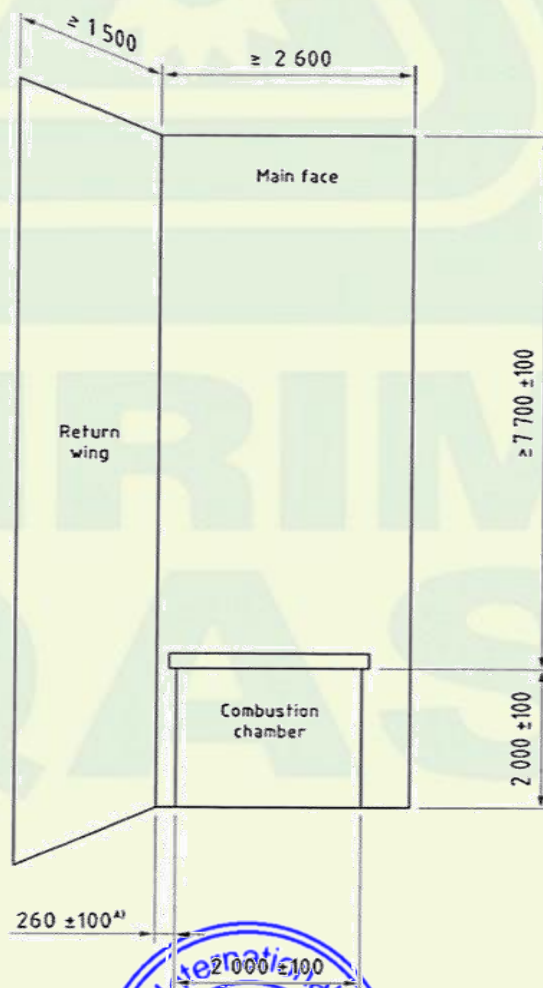
1. INTRODUCTION

The test method, **BS 8414 Part 1:2020** describes a method of assessing the behaviour of non-load bearing external cladding systems, rain screen over cladding systems and external wall insulation systems when applied to the face of a building and exposed to an external fire under controlled conditions. The fire exposure is representative of an external fire source or a fully developed (post- flashover) fire in a room, venting through an opening such as a window aperture that exposes the cladding to the effects of external flames.

This report applies to the cladding system as detailed. The report only covers the detailed as tested. It is important to check that the cladding system tested relates to the end use application when installed on a building. Such checks should be made by a suitable competent person.

2. DETAILED OF TEST APPARATUS USED

- 2.1 The product was installed on to test rig which is representative of the face of a building and consists of a masonry structure with a vertical main test wall and a vertical return wall at a 90° angle to and at one side of the main test wall. The main wall includes the combustion chamber.
- 2.2 The external thermocouples were located at levels 1, 2 and 3 on the test specimens as shown in Schematic 2 and internal thermocouples were located at level 2 and 3 as shown in Schematic 3.

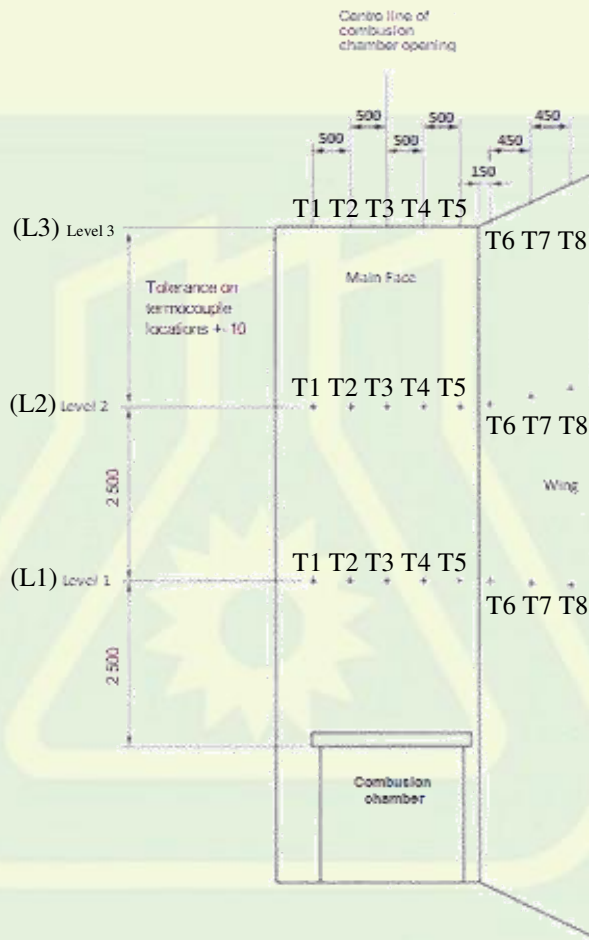


Schematic 1: Standard requirements for test apparatus

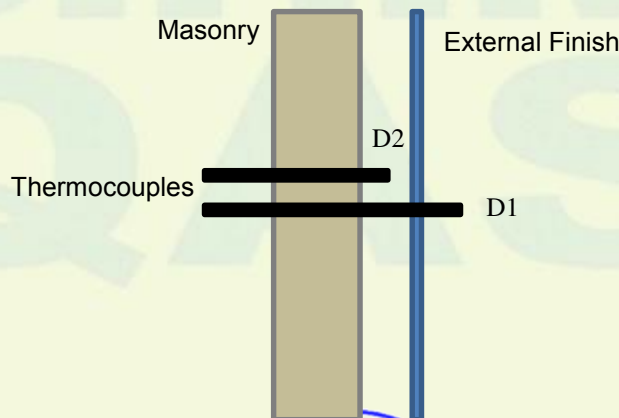


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Schematic 2: External thermocouples location
(Dimensions in millimeters)



Note:

Level 1 (L1) – External (D1), (50mm from of the finished face)

Level 2 (L2) – External (D1), (50mm from of the finished face).

Level 2 (L2) – Mid depth of the panel (D2)

Level 3 (L3) – External (D1), (50mm from of the finished face).

Level 3 (L3) – Mid depth of the panel (D2)

Schematic 3: Internal and external thermocouples positions



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Photo 8: At 03 minutes 14 seconds of test from ignition of crib



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Photo 9: At 05 minutes 01 seconds of test from ignition of crib



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A.5.2 Summary Result

The cladding system was tested to the requirements of **BS 8414 Part 1:2020** without early termination of the test, and therefore assessment is possible according to the results from the following table:

Criterion	Assessment of criteria	
	Start time t_s	Results
<p>External fire spread</p> <p>It is required that there is no external fire spread is occurred where if the temperature rise above start temperature, T_s (the mean temperature of the thermocouples at level 1 during the 5 minutes before ignition) of any of the external thermocouples at level 2 exceeds 600 °C for a period of at least 30 s, within 15 min of the start time, t_s (time when the temperature recorded by any external thermocouple at level 1 height equals or exceeds a 200 °C temperature rise above T_s and remains above this value for at least 30s).</p>	≥15 minutes	Passed
<p>Internal fire spread (ventilation layer)</p> <p>It is required that there is no internal fire spread is occurred where, if the temperature rise above start temperature, T_s (the mean temperature of the thermocouples at level 1 during the 5 minutes before ignition) of any of the internal thermocouples at level 2 exceeds 600 °C, for a period of at least 30 s, within 15 min of the start time, t_s (time when the temperature recorded by any external thermocouple at level 1 height equals or exceeds a 200 °C temperature rise above T_s and remains above this value for at least 30s).</p>	≥15 minutes	Passed

Criterion	Assessment of criteria	
	Duration	Results
<p>Visible Flaming</p> <p>It is required that there is no visible flaming, which exceeds the confines of the test rig either vertically or laterally during the full 60 minutes test period. For the purposes of this clause, visible flaming is defined as a continuous flame which is observed for more than 60 seconds duration (i.e. not intermittent or glowing).</p>	60 minutes	Passed
<p>Mechanical Performance</p> <p>It is required that there is no collapse of the system or part thereof (at least 500 mm length and 200 g), flaming or not, onto the floor of the test facility outside the designated crib collapse zone, see note 1, within the duration of the full 60 minute test period.</p>	60 minutes	Passed
<p>Burning Debris and Pool Fires</p> <p>It is required that there is no burning debris or a pool fire develops on the floor of the test facility, outside the designated crib collapse zone, see note 1. Burning debris is defined as visible flaming for more than 60 seconds duration (i.e. not intermittent or glowing) within the duration of the full 60 minute test period.</p>	60 minutes	Passed



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2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
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7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Chief Executive Officer of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
 - a) Informing and placing a notice in the media;
 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, additional certified true copy(ies) or softcopy of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee. The certified true copy(ies) or softcopy of test report shall only be given for test report issued not more than three (3) years from the date of issuance.
11. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant:
 - a) Changes in details of the Applicant name and/or address;
 - b) Changes in details of the Manufacturer's name and/or address;
 - c) Changes in details of the Factory location name and/or address;
 - d) Changes in details of the model and/or type designation
12. However, issuance of Supplementary Report due to the following reasons are FOC:
 - a) Misprints and typo errors;
 - b) Missing technical information as agreed in PP1 form;
 - c) Test data not reported;
 - d) Mistake in reporting of test data
13. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to a maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.



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TEST REPORT

REPORT NO.: 2020FE0087	PAGE : 1 OF 5
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 Lot 17569 & 17579, Jalan Nilai 3/29,
 Kawasan Perindustrian Nilai 3,
 71800 Nilai,
 Negeri Sembilan Darul Khusus.
(Attn: Mr. Xavier Lui / Ms. Catherine Lui)

Product : **EK VINYL ROOF PANEL (ECL 35) (ECL 48)**

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 EK Vinyl Roof Panel (ECL 35) (ECL 48).
 Size of Specimen : 225mm x 225mm x 8.4mm (measured thickness)
 Brand : EK
 Mass Per Unit Area : 13.65 kg/m²

Descriptions of sample as claimed by the submitter: Refer to page 5

EK Ecoline Industrial UPVC sheets (2mm) joint with cement board (6mm), using polyurethane sealant.


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

Date Received : 13.01.2020
 Job Number : J20201440022


Test Result :	Subindex i1	Subindex i2	Subindex i3	Fire Propagation Index (I)
	3.8	6.3	2.2	12.3

Issued Date : 21 February 2020

Approved Signatory


 (MUHAMMAD SAFUAN MUSA)
 Testing Executive




 (AZMI MUSA)
 HEAD
 Fire Protection Section
 Testing Services Department

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Product : EK VINYL ROOF PANEL (ECL 35) (ECL 48)

Brand : EK

Measured Thickness : 8.4 mm

Date of Test : 11.02.2020

Mass Per Unit Area : 13.65 kg/m²

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	9	15	15	14	15
1.0	13	21	21	18	20
1.5	16	26	26	23	25
2.0	19	30	30	29	30
2.5	23	34	35	35	35
3.0	27	37	39	38	38
4.0	55	77	81	73	77
5.0	87	141	139	143	141
6.0	112	166	170	167	168
7.0	128	201	198	206	201
8.0	151	222	217	235	225
9.0	166	240	242	255	246
10.0	179	256	259	270	261
12.0	202	268	279	286	278
14.0	217	274	290	294	286
16.0	229	287	296	299	294
18.0	241	308	295	304	302
20.0	252	327	306	313	315
Subindex 1		3.8	4.2	3.3	3.8
Subindex 2		6.1	6.1	6.6	6.3
Subindex 3		2.1	2.2	2.3	2.2
Index of Performance		12.0	12.5	12.2	12.3



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Date of Test : 11.02.2020

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **12.3** for the EK Vinyl Roof Panel (ECL 35) (ECL 48) with mass per unit area of 13.65 kg/m² and measured thickness 8.4 mm.

The Subindex i1 is 3.8

The Subindex i2 is 6.3

The Subindex i3 is 2.2

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.



A handwritten signature in blue ink, appearing to be 'M. N. M.', written over the bottom right portion of the stamp.

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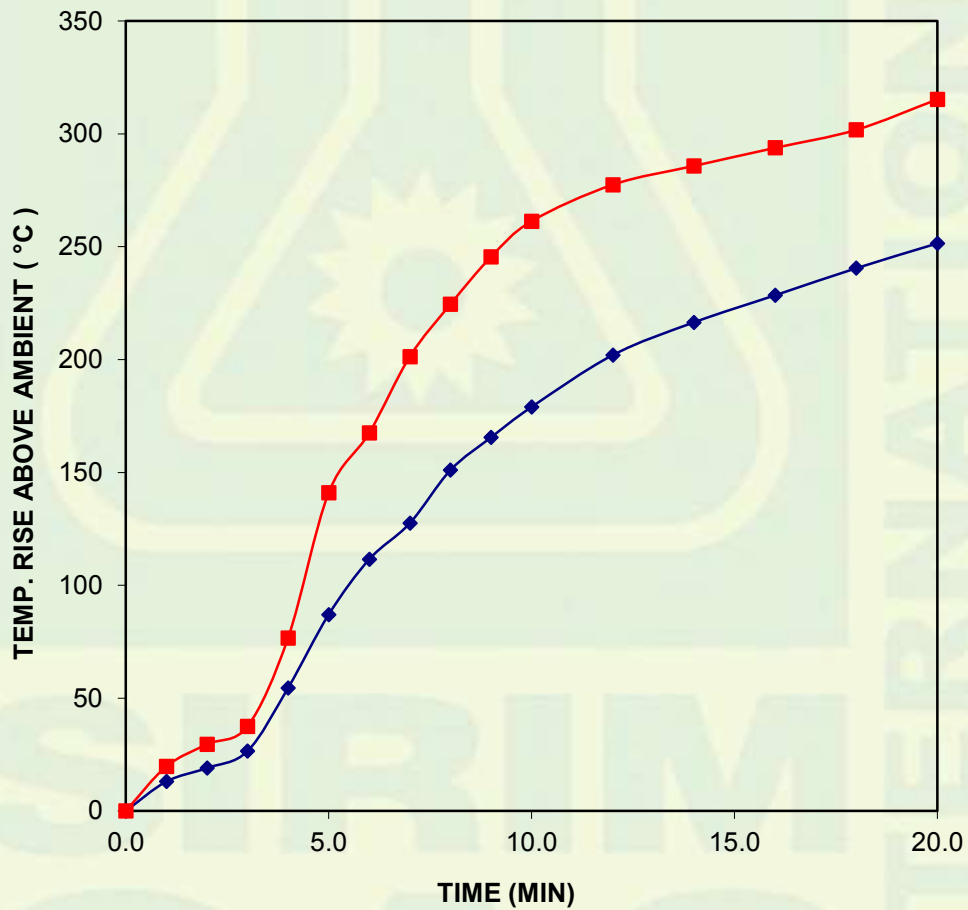
Product : EK VINYL ROOF PANEL (ECL 35) (ECL 48)

Brand : EK

Measured Thickness : 8.4 mm

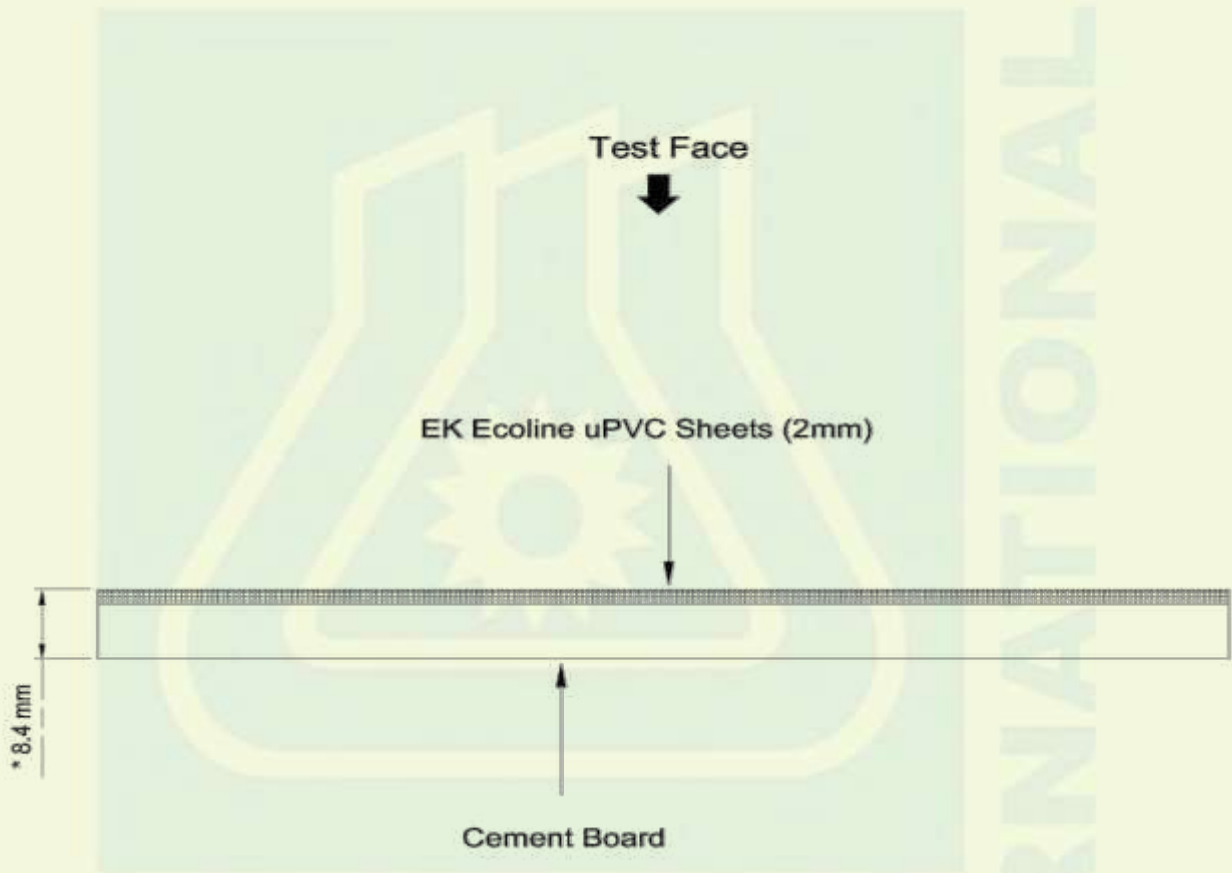
Date of Test : 11.02.2020

Mass Per Unit Area : 13.65 kg/m²



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Descriptions of sample as claimed by the submitter



Note :

* Measured Thickness

EK Vinyl Roof Panel (ECL 35) (ECL 48)



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 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
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 - c) Changes in details of the Factory location name and/or address;
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TEST REPORT

REPORT NO.: 2020FE0088	PAGE : 1 OF 4
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 Lot 17569 & 17579, Jalan Nilai 3/29,
 Kawasan Perindustrian Nilai 3,
 71800 Nilai,
 Negeri Sembilan Darul Khusus.
(Attn: Mr. Xavier Lui / Ms. Catherine Lui)

Product : **EK VINYL ROOF PANEL (ECL 35) (ECL 48)**

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 EK Vinyl Roof Panel (ECL 35) (ECL 48).
 Size of Specimen : 270mm x 885mm x 8.3mm (measured thickness)
 Brand : EK
 Mass Per Unit Area : 12.24 kg/m²

Descriptions of sample as claimed by the submitter: Refer to page 4

EK Ecoline Industrial UPVC sheets (2mm) joint with cement board (6mm), using polyurethane sealant.

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


Date Received : 13.01.2020

Job Number : J20201440023


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

Issued Date : 21 February 2020

Approved Signatory


 (MUHAMMAD SAFUAN MUSA)
 Testing Executive




 (AZMI MUSA)
 Head
 Fire Protection Section
 Testing Services Department

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Name of Applicant : LGYLAN INDUSTRIES SDN. BHD.
Product : EK VINYL ROOF PANEL (ECL 35) (ECL 48)
Brand : EK
Measured Thickness : 8.3 mm
Mass Per Unit Area : 12.24 kg/m²
Date of Test : 12.02.2020

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 : EK VINYL ROOF PANEL (ECL 35) (ECL 48)

Brand : EK

Measured Thickness : 8.3 mm

Date of Test : 12.02.2020

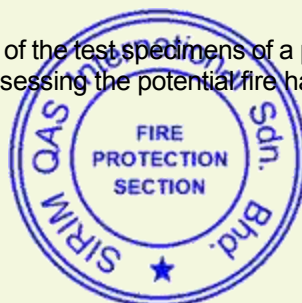
Mass Per Unit Area : 12.24 kg/m²

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

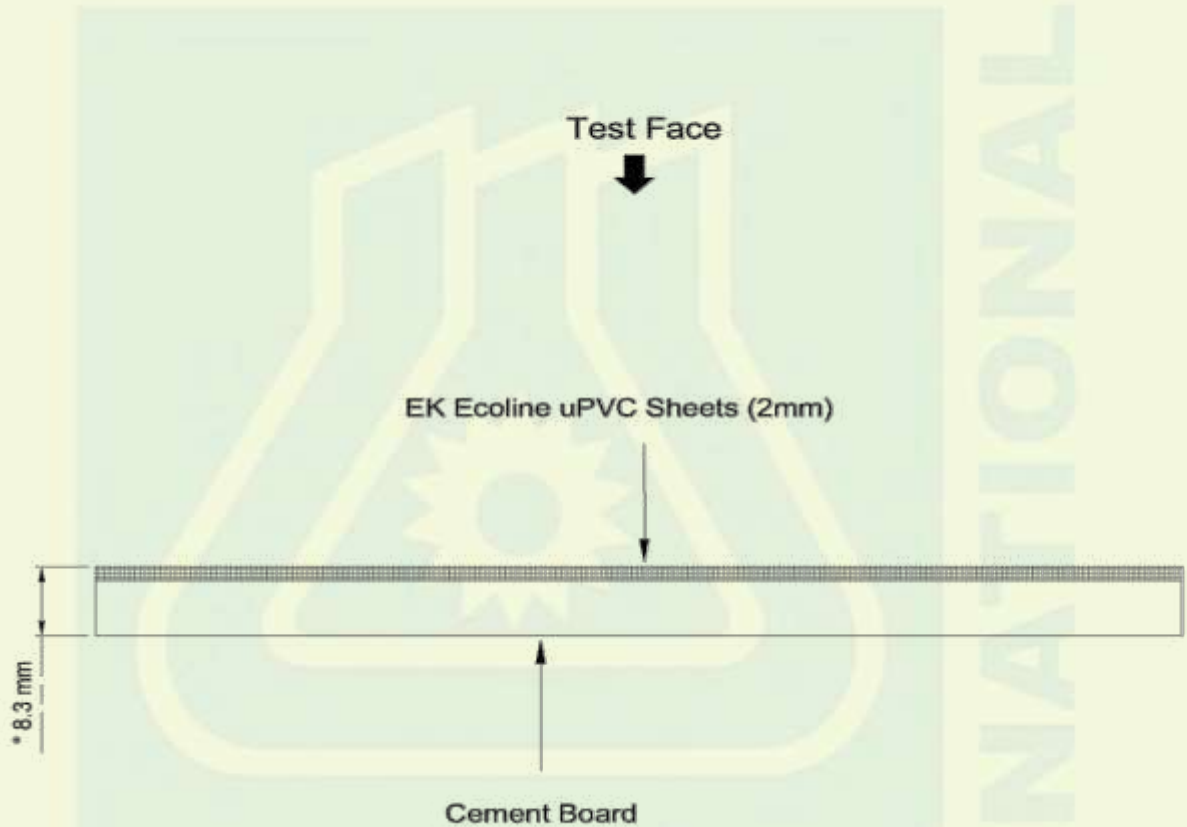
In accordance with the class definition specified in the standard, the test results show that the sample tested has a Class **One** Surface Spread of Flame.

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.



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Descriptions of sample as claimed by the submitter



Note :
* Measured Thickness

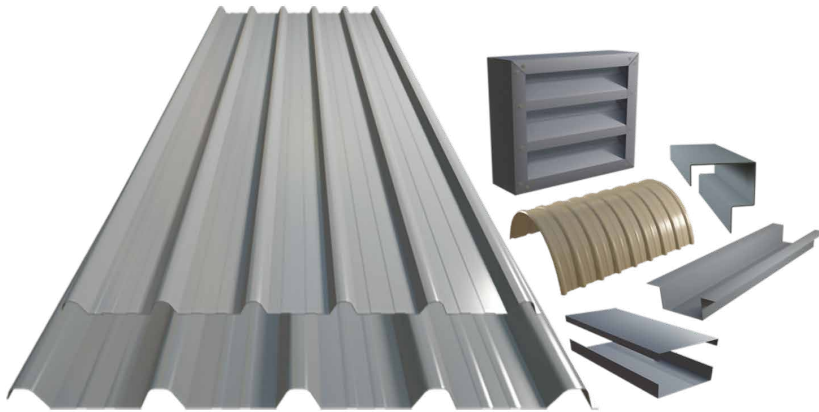
EK Vinyl Roof Panel (ECL 35) (ECL 48)



CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. When a statement of conformity to a specification or standard is applied, the Measurement Uncertainty of test has been considered.
2. The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Chief Executive Officer of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory, etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, brochures/flyers or any other means without the prior written approval from the Chief Executive Officer of SIRIM QAS International.
6. If such approval is obtained from the Chief Executive Officer of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International (Test Report No) ... (dated) (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Chief Executive Officer of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
 - a) Informing and placing a notice in the media;
 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, certified true copy(ies) of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
 - a) Changes in details of the Applicant name and/or address;
 - b) Changes in details of the Manufacturer's name and/or address;
 - c) Changes in details of the Factory location name and/or address;
 - d) Changes in details of the model and/or type designation
12. However, issuance of Supplementary Report due to the following reasons are FOC :
 - a) Misprints and typo errors;
 - b) Missing technical information as agreed in PP1 form;
 - c) Test data not reported;
 - d) Mistake in reporting of test data
13. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.

EK ECOLINE CHEMICAL RESISTANT INDUSTRIAL ROOFING SYSTEM



APPLICABLE GBI CREDITS

NRNC SM12, MR3

RNC SM13, MR3

INC SM14, MR3

NREB SM6

COMPANY DETAILS

LGYLAN INDUSTRIES SDN BHD

Lot 17569 & 17579, Jalan Nilai 3/29,
Kawasan Perindustrian Nilai 3,
71800 Nilai, Negeri Sembilan,
Malaysia

TEL +6012 926 9388 (Hotline)
+606 799 8998

FAX +606 799 8228

EMAIL lgylanind@gmail.com

WEB www.pvcroofmalaysia.com

WHY IS IT GREEN?

EK Ecoline Chemical Resistant Industrial Roofing System has a solar heat reflectance of up to 0.83 (Eco Grey Color Roofing Sheets), helping to reduce the urban heat island effect and minimise the impact on surrounding microclimates. Noise pollution is also reduced as uPVC material provides a soft and quiet effect during rain.

PRODUCT FEATURES

- 100% anti-rust with strong corrosion and chemical resistance.
- Products can be easily recycled, reused and remanufactured into other uPVC products without complication.
- Strong UV protection, light weight and unbreakable, high impact resistance with excellent durability and longer lasting.
- Non-carcinogenic, antioxidants and modifying agents and UV stabilizers gives a very high service life.
- Energy saving with profile ECTSL; skylight roofing of EK Ecoline Nano Translucent.
- Fire retardant material.
- Maintenance-free, visually appealing, weather resistant and customisable.
- Finishes: Wide range of light reflection and light transmission levels.
- Look: Different colours, extensive range of neutral colours.
- Made in Malaysia.

The contents of this Product Data Sheet has been compiled from information supplied by the company and/or their agents and are not necessarily endorsed by GreenPagesMalaysia. Whilst every effort has been made to ensure accuracy in the preparation of this Product Data Sheet, the Publisher, its staff, agents and printers accept no responsibility for any errors or omissions that may occur. © GreenPagesMalaysia.



**BAHAGIAN PERANCANGAN DAN PENYELIDIKAN
PUSAT PENYELIDIKAN KEBOMBAAN (PUSPEK)
JABATAN BOMBA DAN PENYELAMAT MALAYSIA**

Lengkok Teknologi,
Kawasan Perindustrian Enstek,
71760 NILAI
NEGERI SEMBILAN DARUL KHUSUS



Telefon : +606-799 7600/ 7611
Faks : +606-799 7604
Laman Web : www.bomba.gov.my
e-mail : research@bomba.gov.my

Ruj. Tuan : -
Ruj. Kami : JBPM/IP/RNP: 700-7/6 JILID 5 (19)
Tarikh : **23** Oktober 2020

**PENGARAH
LGYLAN INDUSTRIES SDN BHD,
Lot 17569 & 17579, Jalan Nilai 3/29,
Kawasan Perindustrian Nilai 3,
71800, Nilai,
Negeri Sembilan.**

Tuan,

**MAKLUM BALAS PERMOHONAN SIJIL PEPASANGAN KESELAMATAN
KEBAKARAN**

**NAMA BAHAN : EK VINYL ROOF PANEL (EC 35) (ECL 48) – ROOFING
SYSTEMS & ROOFING ACCESSORIES FOR BUILDING
MATERIALS**

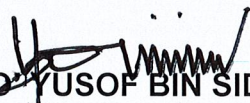
Saya dengan segala hormatnya merujuk kepada perkara di atas adalah berkaitan.

2. Adalah dimaklumkan, Bahagian Perancangan dan Penyelidikan telah memproses serta membuat semakan dokumen dan laporan teknikal berhubung permohonan syarikat Tuan seperti butiran di atas. Untuk makluman, nama bahan seperti dinyatakan di atas **TIADA KAWALAN** dan tidak dikategorikan sebagai Komponen/ Alat/ Bahan/ Sistem Pemasangan Keselamatan Kebakaran daripada *Local Authority Body* Jabatan Bomba dan Penyelamat Malaysia (JBPM).

Sekian, terima kasih.

“BERKHIDMAT UNTUK NEGARA”

Saya yang menjalankan amanah,


(DATUK YUSOF BIN SIDEK)
Pengarah

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

‘CEPAT DAN MESRA’





Certificate of Registration

This is to certify that the

QUALITY MANAGEMENT SYSTEM

of

LYLAN INDUSTRIES SDN. BHD.

Lot 17569 & 17579, Jalan Nilai 3/29, Kawasan Perindustrian Nilai 3, Nilai, Negeri Sembilan, 71800, MALAYSIA

for

Manufacture of Unplasticized Polyvinyl Chloride (UPVC) Industrial Roofing

has been assessed and registered against the provisions of

ISO 9001:2015

International Standard

with

Registration Number:	35Q19105	Cycle Start Date:	30 January 2021
Project:	2-19105-2-Q	Approval Date:	2 April 2021
		Issue Date:	2 April 2021
Certification Approved By:		Expiry Date:	30 January 2024
Doug Page-Symonds			
Chief Executive Officer			



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Level 1, Devonshire House, One Mayfair Place, London, W1J 8AJ, United Kingdom.



S/N: 80012356
PIN: 26098706



Certification Partner Global
ISO 9001 : 2015

CERTIFICATE OF REGISTRATION

THIS IS TO CERTIFY THAT THE
QUALITY MANAGEMENT SYSTEM OF

EK Hitec Corporation Sdn. Bhd

636351-A

**Lot 17569 & 17579 Jalan Nilai 3/29,
Kawasan Perindustrian Nilai 3. Nilai
Negeri Sembilan 71800
MALAYSIA**

Has been assessed and registered as complying with the requirements of the International Standard shown above for the following Goods and Services. Further clarifications regarding the scope of this certificate and the applicability of the requirements of

ISO 9001 : 2015

may be obtained by consulting the certificate issuer.

Construction of Vinyl Industrial Roofing



JAS-ANZ



www.jas-anz.org/register

Ach Wilde

Tony Wilde
Group Chairman

Registration Number:	QAC/R60/0020
Original 9001 Registration Date:	30-Jul-2019
Current Registration Date:	30-Jul-2019
Recertification Date:	14-Sep-2022
Expiry Date:	30-Jul-2025
Amendment Date:	

Certification Partner Global

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License # 1150/2011 CC (previously known as ISC Global),
Level 03, Boulevard Plaza, Tower 1, Downtown Dubai, Dubai, UAE

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