

TEST REPORT

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Applicant/ Manufacturer : **MBOND MANUFACTURER SDN. BHD.**
No. 9, Jalan TPP3,
Taman Perindustrian Putra,
47130 Puchong,
Selangor Darul Ehsan.
(Attn: Mr. Leo)

Product : **ALUMINIUM COMPOSITE PANEL**

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 Aluminium Composite Panel.
Size of Specimen : 225mm x 225mm x 4.0mm (measured thickness)
Mass Per Unit Area : 7.59 kg/m²

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

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


The test was requested through PP2 Form Ref. No. P5-010704 dated 29.03.2019.

Date Received : 19.04.2019
Job Number : J20191440251

Test Result	Subindex i1	Subindex i2	Subindex i3	Fire Propagation Index (I)
	0.0	0.0	0.4	0.4

Issued Date : 28 May 2019

Approved Signatory



(MUHAMMAD SAFUAN MUSA)
Testing Executive




(AZMI MUSA)
Head
Fire Protection Section
Testing Services Department

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Product : ALUMINIUM COMPOSITE PANEL

Measured Thickness : 4.0 mm

Date of Test : 18.05.2019

Mass Per Unit Area : 7.59 kg/m²

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	16	12	13	14	13
1.0	21	17	18	19	18
1.5	24	20	21	23	21
2.0	28	23	25	26	25
2.5	33	27	28	31	28
3.0	38	32	32	35	33
4.0	65	58	60	63	60
5.0	96	88	89	95	91
6.0	118	110	113	120	114
7.0	137	134	132	138	135
8.0	155	147	146	154	149
9.0	168	162	163	168	164
10.0	179	173	173	178	174
12.0	196	192	191	195	192
14.0	208	202	203	208	204
16.0	219	215	213	216	215
18.0	227	279	219	221	239
20.0	233	340	294	226	286
Subindex 1		0.0	0.0	0.0	0.0
Subindex 2		0.0	0.0	0.0	0.0
Subindex 3		0.8	0.3	0.0	0.4
Index of Performance		0.8	0.3	0.0	0.4



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Date of Test : 18.05.2019

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **0.4** for the Aluminium Composite Panel with mass per unit area of 7.59 kg/m² and measured thickness 4.0 mm.

The Subindex i1 is 0.0

The Subindex i2 is 0.0

The Subindex i3 is 0.4

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.

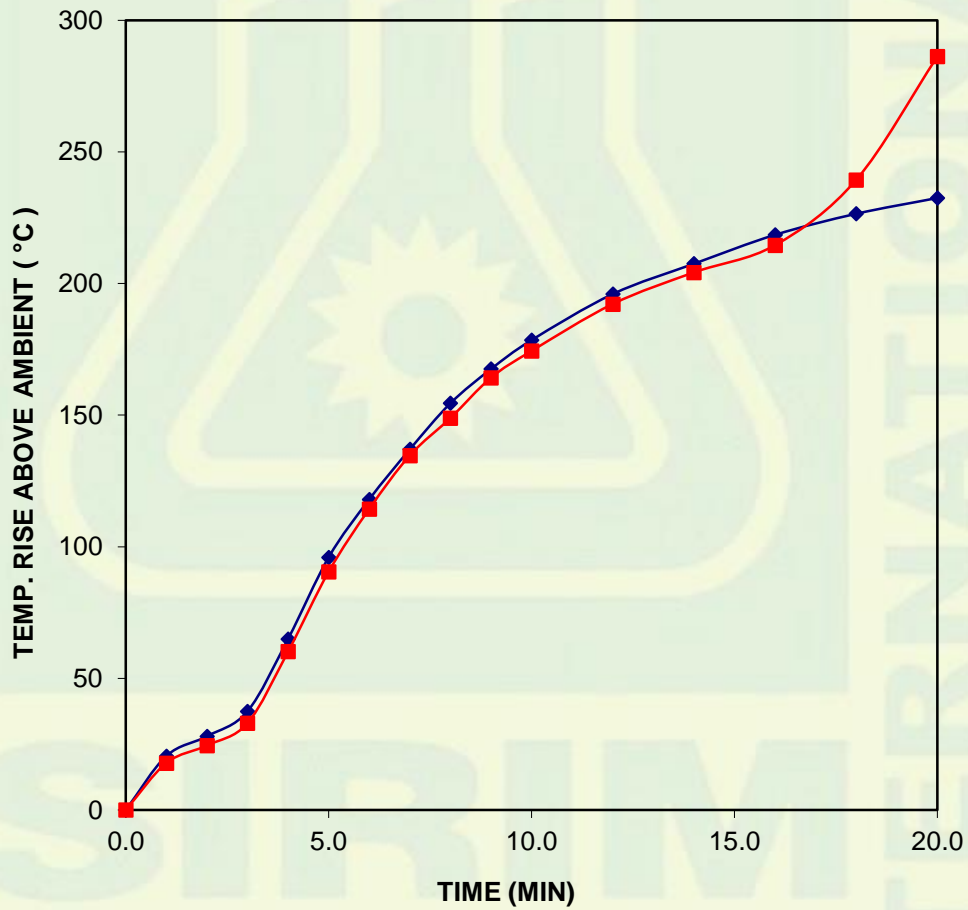
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Product : ALUMINIUM COMPOSITE PANEL

Measured Thickness : 4.0 mm

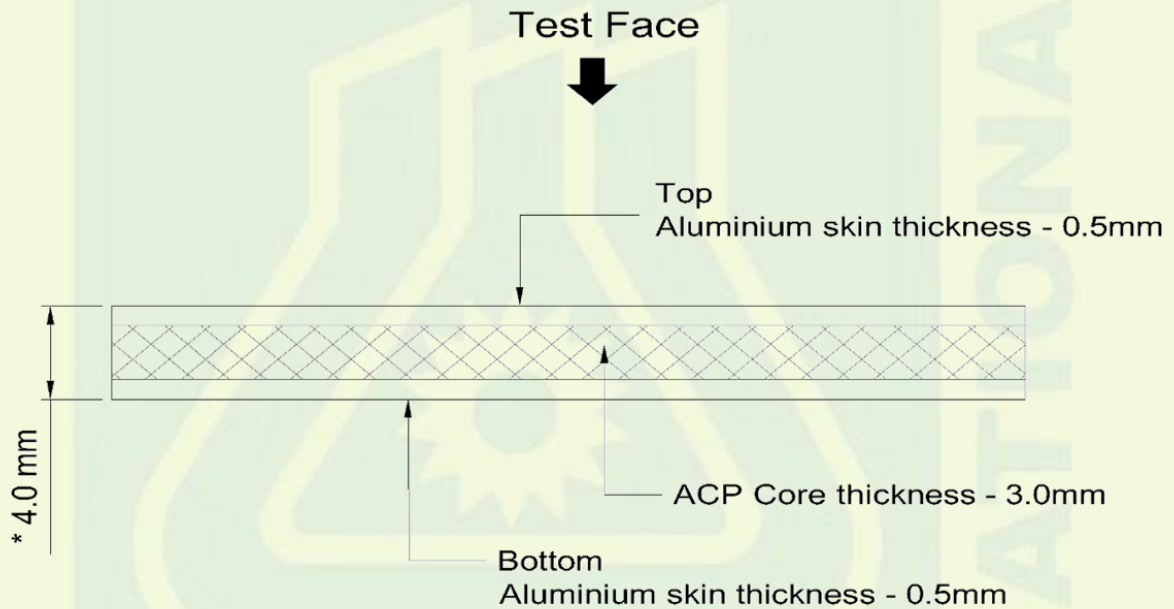
Date of Test : 18.05.2019

Mass Per Unit Area : 7.59 kg/m²



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Descriptions of sample as claimed by the submitter



Note :-

* Measured Thickness

Aluminium Composite Panel



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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.
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 Managing Director 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.
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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