

TEST REPORT

REPORT NO.: 2013FE0248

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 advertising purposes by any means or forms without written approval from Managing Director of SIRIM QAS International Sdn. Bhd. Please refer overleaf for conditions to the use of Test Report.

Applicant : **DAIKEN CORPORATION**
Lot 14082, Jalan Kuchai Lama,
58200 Kuala Lumpur.
(Attn: Miss. Chek Wai Yee)

Manufacturer : **OKAYAMA DAIKEN CO. LTD.**
5-8, Kaigan – Dori Okayama,
Okayama Pref.

Product : **MINERAL FIBER BOARD**

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 : 3 pieces of Mineral Fiber Board.
Size of Specimen : 225mm × 225mm × 15.1mm (measured thickness)
Brand : Daiken
Model : 15 mm
Measured Density : 294 kg/m³

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

Date Received : 30.07.2013
Date of Test : 28.08.2013
Job No./ Ref No. : J20131440311 /SQAS/FPS/15/1-5

Test Result	Subindex i1	Subindex i2	Subindex i3	Fire Propagation Index (I)
	3.6	2.4	0.7	6.7

Issued Date : 11 OCT 2013

Approved Signatories


MUHAMMAD SAFUAN MUSA
Testing Executive




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

7.0 CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

- 7.1 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.
- 7.2 The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
- 7.3 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.
- 7.4 The Test Report shall not be reproduced and shall not in any manner 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, 40911 Shah Alam, Selangor Darul Ehsan.
- 7.5 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 and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
- 7.6 The use of SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo and/or words such as "SIRIM: Tested and Proven" and similar representations are strictly forbidden in any manner whatsoever without the prior written approval from the Managing Director of SIRIM QAS International.
- 7.7 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 right 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.
- 7.8 In the event of an investigation from any third party concerning the Applicant's Test Report, SIRIM QAS International may disclose the same for purposes of such investigation.
- 7.9 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.
- 7.10 Certified true copies of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.

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REPORT NO.: 2013FE0248

PAGE 2 OF 4

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Product : MINERAL FIBER BOARD

Measured Thickness : 15.1 mm

Brand : Daiken

Measured Density : 294 kg/m³

Model : 15 mm

Date of Test : 28.08.2013

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	13	18	20	19	19
1.0	19	25	26	25	25
1.5	23	31	33	31	32
2.0	28	36	38	37	37
2.5	31	40	41	41	41
3.0	34	44	48	45	46
4.0	69	86	88	82	85
5.0	105	125	128	122	125
6.0	132	154	158	152	154
7.0	151	175	174	175	174
8.0	166	195	197	192	195
9.0	185	209	212	208	209
10.0	196	226	224	221	223
12.0	218	243	240	240	241
14.0	231	254	256	252	254
16.0	244	264	265	264	264
18.0	251	271	274	272	272
20.0	257	276	277	279	277
Subindex 1		3.2	4.1	3.5	3.6
Subindex 2		2.4	2.7	2.2	2.4
Subindex 3		0.7	0.7	0.7	0.7
Index of Performance		6.3	7.5	6.4	6.7



11 OCT 2013

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PAGE 3 OF 4

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Date of Test : 28.08.2013

No. of Specimen Tested : 3 nos.

The Fire Propagation Index I is **6.7** for the Mineral Fiber Board with measured density of 294 kg/m³ and measured thickness of 15.1 mm.

The Subindex i1 is 3.6

The Subindex i2 is 2.4

The Subindex i3 is 0.7

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.



11 OCT 2013

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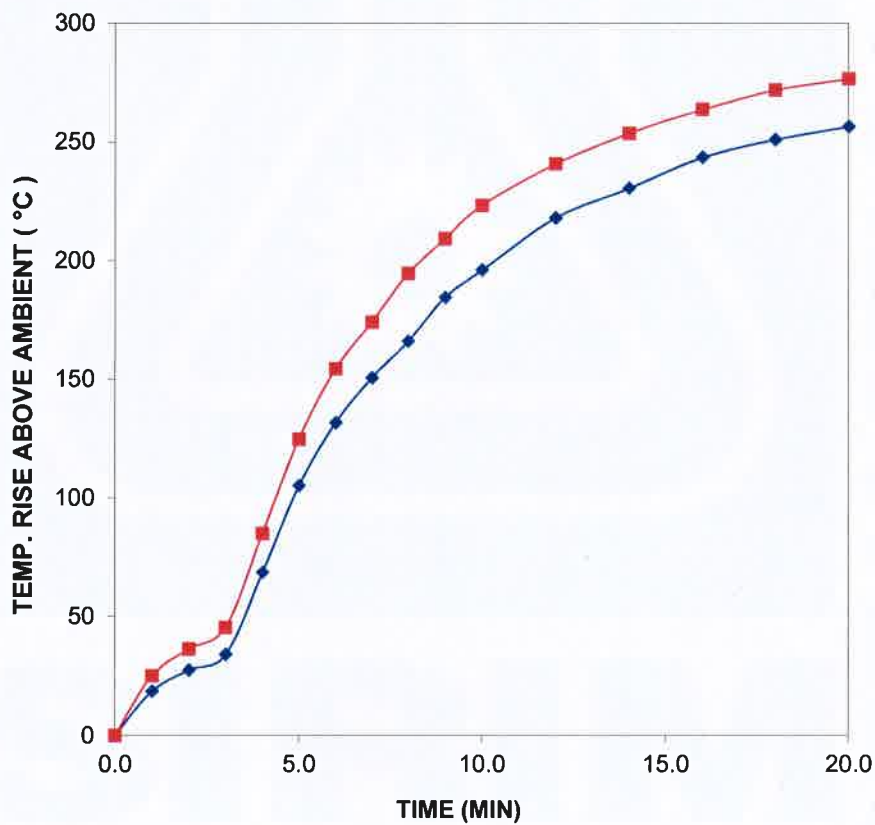
REPORT NO.: 2013FE0248

PAGE 4 OF 4

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Product : MINERAL FIBER BOARD
Brand : Daiken
Model : 15 mm

Measured Thickness : 15.1 mm
Measured Density : 294 kg/m³
Date of Test : 28.08.2013



11 OCT 2013