

Test No. : III C - 2 3 - 0 1 1 9 追 1

Reception Date : 2 0 2 3 / 1 1 / 1 3

Date of Report : 2 0 2 3 / 1 2 / 2 0

“Ceramic siding” certification audit based on industrial standardization

Ceramic siding product testing report card

大阪府池田市豊島南二丁目204番地

一般財団法人 日本建築総合試験所

試験研究センター

センター長

工学博士 川瀬 博



報告書発行責任者

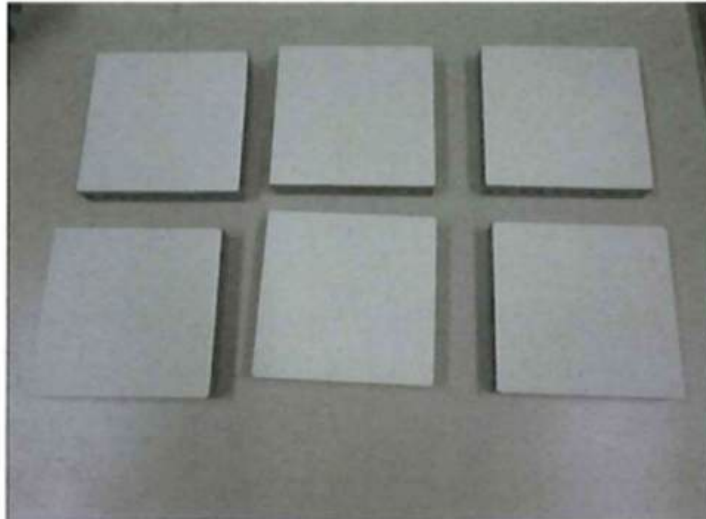
防耐火構造・材料試験室長

博士（工学） 土橋 常登



Client	Name of the company	Konoshima Chemical Co.,Ltd.		
	Location	80, Takumacho Koda, Mitoyo Shi, Kagawa Ken		
Test items		Heat Generation Test		
Test purpose		Periodic certification maintenance product testing		
Test sample	Material Name*	Designing Siding		
	Product Name*	DRESSE flat18 (Innocent White GC) Item No. : ORA048H7395R		
	Manufacturing Company*	Konoshima Chemical Co.,Ltd.		
	Date of manufacture*	2023/9/26		
	Lot No.*	2309263		
	Sample collector*	田中学 (The General Building Research Corporation of Japan Product Certification Center judge)		
	Date of collection*	2023/11/7		
	Date of delivery of the samples	2023/11/10		
	Appearance at delivery	picture-1,2		
	Storage after delivery	Humidity 23 ± 2°C, Relative humidity 50 ± 5% constant temperature and humidity room		
	Sample Symbol	A	B	C
	Size (mm)	99 × 99	99 × 99	99 × 99
	Thickness (mm)	17.4	17.2	16.9
	Mass (g)	172.2	172.0	169.1
	Training Term (day)	34	34	34
Test procedure	Test standards	JIS A 5422:2019 "Ceramic siding" Annex A (Regulations) Heat Generation test and its evaluation method		
	Test category	Heat generating grade 1		
	Test time (minute)	20		
	Radiant intensity (kW/m2)	50		
	Exhaust flow speed (L/s)	24		
Test Results	Test Date	2023/12/14		
	Heat generation speed and total calorific value Measurement Curves	Chart 1	Chart 2	Chart 3
	flameout time (second)	No ignition	No ignition	No ignition
	Total calorific value (MJ/m2) 【Required value 8.0MJ/m2】	4.4	2.2	4.1
	Cracks/pores reaching the back surface	None	None	None
	Maximum heat generation speed (kW/m2)	5.23	3.67	8.15
	200kW/m2 over time (second) 【Required value 10second】	0	0	0
	Judgment	passing	passing	passing
Remarks	・ The test samples before and after the test are shown in picture 3-8			
Test laboratory		The General Building Research Corporation of Japan		
Testing location		Ikeda Office for Fire Test : 2-204 Toyoshimaminami,Ikeda-city, Osaka		
Test administrator		test manager : 正木 智大 test administrator : 鈴木 秀和		

* Depends on materials submitted by the client.



picture-1
Test samples delivery status



picture-2
Acknowledgement that was affixed

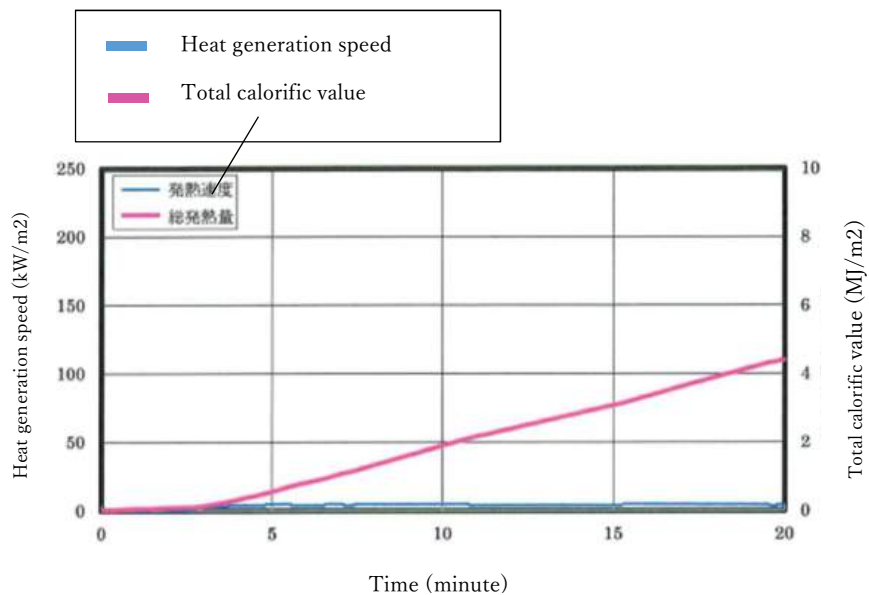


Chart1: Heat generation speed and total calorific value (sample A)

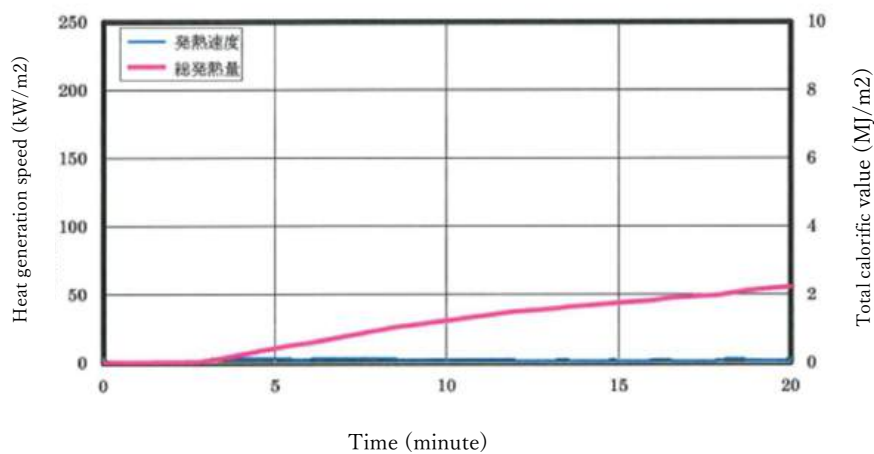


Chart2: Heat generation speed and total calorific value (sample B)

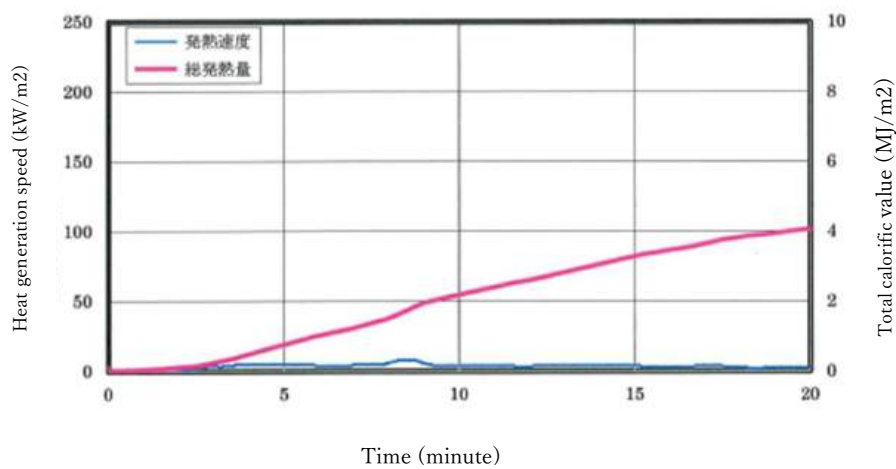


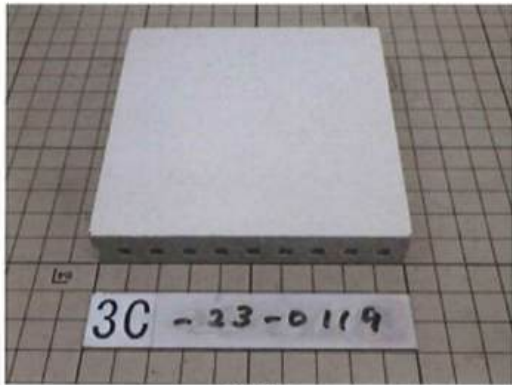
Chart3: Heat generation speed and total calorific value (sample C)



picture - 3
Sample A : Before the test



picture - 4
Sample A : After the test



picture - 5
Sample B: Before the test



picture - 6
Sample B: After the test



picture - 7
Sample C: Before the test



picture - 8
Sample C : After the test

Handling of this document

- The last page of this document is this page.
- The test results in this document were obtained on specimens received from the client listed in this document.
- If this document is to be reproduced and disclosed to a third party, it must be reproduced in its entirety and not just portions of it.
- If any part of the results of this test is to be disclosed to the public, such as in a catalog with the name of our laboratory, please obtain the approval of our laboratory in writing.

April 19, 2024
Kamijima Chemical
Industry Co.



Weather Resistance of Siding

We will describe the test results for weather resistance of the siding.

■ Accelerated Weathering Resistance Test

Sample colors: dark and light

Testing method: JIS A 5422 7. 8 Weatherability test

Performance standard: Sunshine Weather Meter Test (SWOM) 1000 hours

(1) Difference in color $\Delta E^*_{ab} \leq 6.0$

(2) Peeled off and swollen surface

area ratio of the surface is less than 2%: (1)

Refer to the attached data.

No peeling or swelling of the surface even after 5000 hours for both dark and light colors

In-house testing from 1000 to 5000 hours

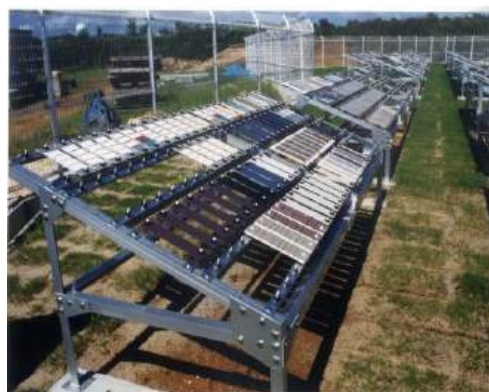
■ Actual Exposure Tests

Exposure to Okinawa

Exposure location:

Miyakojima, Okinawa

Inclination angle: 30 degrees, facing south (photo on the right: exposure angle) Test result: No drastic color change (see attached data)



Tests were conducted under the above test conditions and were performed from Kyushu to Hokkaido.

The correlation with actual exposure as a wall user is seen as follows.

3 years of slope exposure in Okinawa = 10 years of degradation in actual property

Comparing the climatic conditions in Okinawa with those in other areas, it can be seen that the Okinawa area has a severe climatic environment with high temperature, high humidity, and high ultraviolet radiation, which promotes autoexposure.

The history is almost the same as that of Miami, Florida, which is famous for its world-class auto-exposure, and has conditions that could become a global standard for exposure testing.

... and upwards

Attachment (1)

Brown (dark color)		White (light color)																																																	
SWOM	Okinawan revelations	SWOM	Okinawan revelations																																																
<div><p>Color Difference</p><table><tr><th>test (testing) time</th><th>ΔE</th></tr><tr><td>0</td><td>0.00</td></tr><tr><td>1000hr</td><td>0.20</td></tr><tr><td>2000hr</td><td>0.40</td></tr><tr><td>3000hr</td><td>0.40</td></tr><tr><td>4000hr</td><td>0.40</td></tr><tr><td>5000hr</td><td>0.40</td></tr></table></div> <div><p>Before hours test after 5000</p></div>	test (testing) time	ΔE	0	0.00	1000hr	0.20	2000hr	0.40	3000hr	0.40	4000hr	0.40	5000hr	0.40	<div><p>Color Difference</p><table><tr><th>test (testing) period</th><th>ΔE</th></tr><tr><td>0</td><td>0.00</td></tr><tr><td>1 year</td><td>0.40</td></tr><tr><td>2 years</td><td>0.60</td></tr><tr><td>3 years</td><td>0.60</td></tr></table></div> <div><p>Exposure 3 years post-test</p></div>	test (testing) period	ΔE	0	0.00	1 year	0.40	2 years	0.60	3 years	0.60	<div><p>Color Difference</p><table><tr><th>test (testing) time</th><th>ΔE</th></tr><tr><td>0</td><td>0.00</td></tr><tr><td>1000hr</td><td>0.80</td></tr><tr><td>2000hr</td><td>0.80</td></tr><tr><td>3000hr</td><td>0.90</td></tr><tr><td>4000hr</td><td>0.90</td></tr><tr><td>5000hr</td><td>0.90</td></tr></table></div> <div><p>Before hours test after 5000</p></div>	test (testing) time	ΔE	0	0.00	1000hr	0.80	2000hr	0.80	3000hr	0.90	4000hr	0.90	5000hr	0.90	<div><p>Color Difference</p><table><tr><th>test (testing) period</th><th>ΔE</th></tr><tr><td>0</td><td>0.00</td></tr><tr><td>1 year</td><td>2.20</td></tr><tr><td>2 years</td><td>1.60</td></tr><tr><td>3 years</td><td>0.80</td></tr></table></div> <div><p>Exposure 3 years post-test</p></div>	test (testing) period	ΔE	0	0.00	1 year	2.20	2 years	1.60	3 years	0.80
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KONOSHIMA

Certificate of Official Distributor

Konoshima Chemical Co., Ltd. hereby certifies that KNC FACADE located in A2 Street Le Thi Kinh, Phuoc Kien, Nha Be, Ho Chi Minh City is the official representative of Konoshima Chemical Co., Ltd. in Vietnam and is authorized to sell Konoshima products within the Vietnam market in the period from January 1st , 2025 to December 31th, 2025.

January 1st 2025

Konoshima chemical Co., Ltd.



ISO 9001

マネジメントシステム登録証

登録証番号 : JQA-QMA10166

登録事業者 :

神島化学工業株式会社

詫間工場

香川県三豊市詫間町香田 8 0 番地



当機構は、上記事業者の品質マネジメントシステムを審査した結果、付属書に記載する範囲において、下記規格の要求事項に適合していることを証します。

ISO 9001 :2015 / JIS Q 9001 :2015

登録日 : 2003年 7月 4日

登録更新日 : 2024年 7月 4日

有効期限 : 2027年 7月 3日

本登録証の有効性は、当機構までお問い合わせの上、確認することができます。

一般財団法人 日本品質保証機構

東京都千代田区神田須田町1-25

理事長 石井 裕 晶



Member of



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23.05 D7501203

ISO 9001

付属書



登録証番号 : JQA-QMA10166

1 / 1

登録事業者 :

神島化学工業株式会社
詫間工場

登録活動範囲 :

- ・ 下記製品の設計・開発及び製造
 - ・ 窯業系建築材料（珪酸カルシウム板など）
 - ・ 化成品（酸化マグネシウム、水酸化マグネシウム、炭酸マグネシウム）
 - ・ 工業用セラミクス製品
- ・ 下記製品の設計・開発及び製造（アウトソース）
 - ・ 化成品（炭酸カルシウム）

関連事業所 :

- ・ 詫間第二工場
香川県三豊市詫間町詫間 2 1 1 2 - 1 7
[下記製品の設計・開発及び製造
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理事長 石井 裕 晶



Member of



本付属書は本証の一部のため、合わせてご覧ください。



ISO 9001

Management System Certificate



Certificate Number : JQA-QMA10166

Organization :

KONOSHIMA CHEMICAL CO., LTD.

TAKUMA FACTORY

80 KODA, TAKUMA-CHO, MITOYO-CITY, KAGAWA, JAPAN



MS
CM009

JQA certifies that the above organization operates the Quality Management System, within the scope of the Appendix attached, which has been assessed and found to comply with the requirements of;

ISO 9001 :2015 / JIS Q 9001 :2015



091

Registration Date : July 4, 2003

Last Renewal Date : July 4, 2024

Expiry Date : July 3, 2027

Feel free to contact JQA for the validity of this certificate.

A handwritten signature in black ink, reading 'H. Ishii'.

HIROAKI ISHII
PRESIDENT

1-25 KANDASUDACHO, CHIYODA-KU, TOKYO, JAPAN

JAPAN QUALITY ASSURANCE ORGANIZATION

To be used in conjunction with attached Appendix.

Member of



ISO 9001

Appendix



Certificate Number : JQA-QMA10166

1 / 1

Organization :

KONOSHIMA CHEMICAL CO., LTD.
TAKUMA FACTORY

Scope of Registration:

- DESIGN / DEVELOPMENT AND MANUFACTURE OF THE FOLLOWING PRODUCTS
 - BUILDING MATERIALS OF CERAMICS (CALCIUM SILICATE BOARD ETC.)
 - CHEMICALS (MAGNESIUM OXIDE, MAGNESIUM HYDROXIDE, MAGNESIUM CARBONATE)
 - INDUSTRIAL CERAMICS PRODUCTS
- DESIGN / DEVELOPMENT AND MANUFACTURE (OUTSOURCING) OF THE FOLLOWING PRODUCTS
 - CHEMICALS (CALCIUM CARBONATE)

ASSOCIATED ORGANIZATION:

- TAKUMA SECOND FACTORY
2112-17 TAKUMA, TAKUMA-CHO, MITOYO-CITY, KAGAWA, JAPAN
[DESIGN / DEVELOPMENT AND MANUFACTURE OF THE FOLLOWING PRODUCTS
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 - INDUSTRIAL CERAMICS PRODUCTS]

Registration Date : July 4, 2003
Last Renewal Date : July 4, 2024

Expiry Date : July 3, 2027

Feel free to contact JQA for the validity of this certificate.


HIROAKI ISHII
PRESIDENT

JAPAN QUALITY ASSURANCE ORGANIZATION

This Appendix is an integral part of the Certificate and should only be used in conjunction with the Certificate.

Member of



ISO 14001

マネジメントシステム登録証



登録証番号 : JQA-EM6710

登録事業者 :

神島化学工業株式会社

詫間工場

香川県三豊市詫間町香田 8 0 番地



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CM009

当機構は、上記事業者の環境マネジメントシステムを審査した結果、付属書に記載する範囲において、下記規格の要求事項に適合していることを証します。

ISO 14001 :2015 / JIS Q 14001 :2015



091

登録日 : 2011年 7月 15日

登録更新日 : 2023年 7月 15日

有効期限 : 2026年 7月 14日

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確認することができます。

一般財団法人 日本品質保証機構

東京都千代田区神田須田町 1-2 5

理事長 小林 憲明



Member of



本証には付属書がありますので、合わせてご覧ください。



22.06 D7501205

ISO 14001

付属書



登録証番号 : JQA-EM6710

1 / 1

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詫間工場

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Member of



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ISO 14001

Management System Certificate



Certificate Number : JQA-EM6710

Organization :

KONOSHIMA CHEMICAL CO., LTD.

TAKUMA FACTORY

80 KODA, TAKUMA-CHO, MITOYO-CITY, KAGAWA, JAPAN



MS
CM009

JQA certifies that the above organization operates the Environmental Management System, within the scope of the Appendix attached, which has been assessed and found to comply with the requirements of;

ISO 14001 :2015 / JIS Q 14001 :2015



091

Registration Date : July 15, 2011

Last Renewal Date : July 15, 2023

Expiry Date : July 14, 2026

Feel free to contact JQA for the validity of this certificate.

N. Kobayashi

NORIAKI KOBAYASHI
PRESIDENT

1-25 KANDASUDACHO, CHIYODA-KU, TOKYO, JAPAN

JAPAN QUALITY ASSURANCE ORGANIZATION

To be used in conjunction with attached Appendix.



ISO 14001

Appendix



Certificate Number : JQA-EM6710

1 / 1

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- INDUSTRIAL CERAMICS PRODUCTS]

Registration Date : July 15, 2011
Last Renewal Date : July 15, 2023

Expiry Date : July 14, 2026

Feel free to contact JQA for the validity of this certificate.


NORIAKI KOBAYASHI
PRESIDENT

JAPAN QUALITY ASSURANCE ORGANIZATION

This Appendix is an integral part of the Certificate and should only be used in conjunction with the Certificate.



CERTIFICATION

Certificate No. : **GB0708046**

Konoshima Chemical Co., Ltd.

4-4-7, Imabashi, Chuo-ku, Osaka-shi, Osaka, Japan

In accordance with the provisions in Paragraph 1 of Article 30 of the Industrial Standardization Law, I hereby certificate for JIS marking as follows:

1. Certificated Item for JIS Mark : Fiber reinforced cement sidings
2. JIS No. , Title : JIS A 5422 Fiber reinforced cement sidings
3. Division for certification : Ditto
4. Class or Grade : Show on attached sheet
5. Name of Factory or
Workyard and Address : Konoshima Chemical Co., Ltd.
: TAKUMA FACTORY
Koda80, Takuma-Cho, Mitoyo-shi, Kagawa, Japan

Certificated : Sep.18, 2008

Reissued : Aug.26, 2024



KAWASE Hiroshi

Board Chairman

General Building Research Corporation of Japan

5-8-1, Fujishirodai, Suita-shi, Osaka, Japan

This certification is reissued due to change of the address of head office.

Aug.26, 2024

R. Kawazu

Senior Executive KAWAZU Ryuda

Product Certification Center

General Building Research Corporation of Japan

Date of reissue	Items changed	Contents were changed as below	Date of the change
Certificated Sep.18, 2008	Address (Head office)	4-1-1, Kouraihashi, Chuo-ku, Osaka-shi, Osaka	—
	Name of representative	President Kousaku Shimada	
Aug.12, 2009	Address (Head office)	1-3-15, Awaza, Nishi-ku, Osaka-shi, Osaka	Jul.27, 2009
Aug.6, 2010	Name of representative	Kazuo Ikeda	Jul.16, 2010
Jan.28, 2015	—	Addition of the address of accredited certification body	—
Nov.4, 2021	Name of representative	Deletion of representative name	—
	Legal provisions	Article 19 of the industrial standardization law →Article 30 of the industrial standardization law	Jul.1, 2019
Aug.26,2024	Address (Head office)	4-4-7, Imabashi, Chuo-ku, Osaka-shi, Osaka	May.7,2024

attached sheet

Certificate No. : **GB0708046**

Certificated : Sep.18, 2008

Reissued : Aug.26, 2024

Class of Certificated Item

Table-1 Class of certificated products

Type of siding	Symbol of type
Decorative siding	D
Siding for coating at construction site	S