

# for Kitchen



Marble series

Granite series

Natural stone composite panel

**KanaStone**<sup>®</sup>

**Kanaflex**<sup>®</sup>

for Kitchen

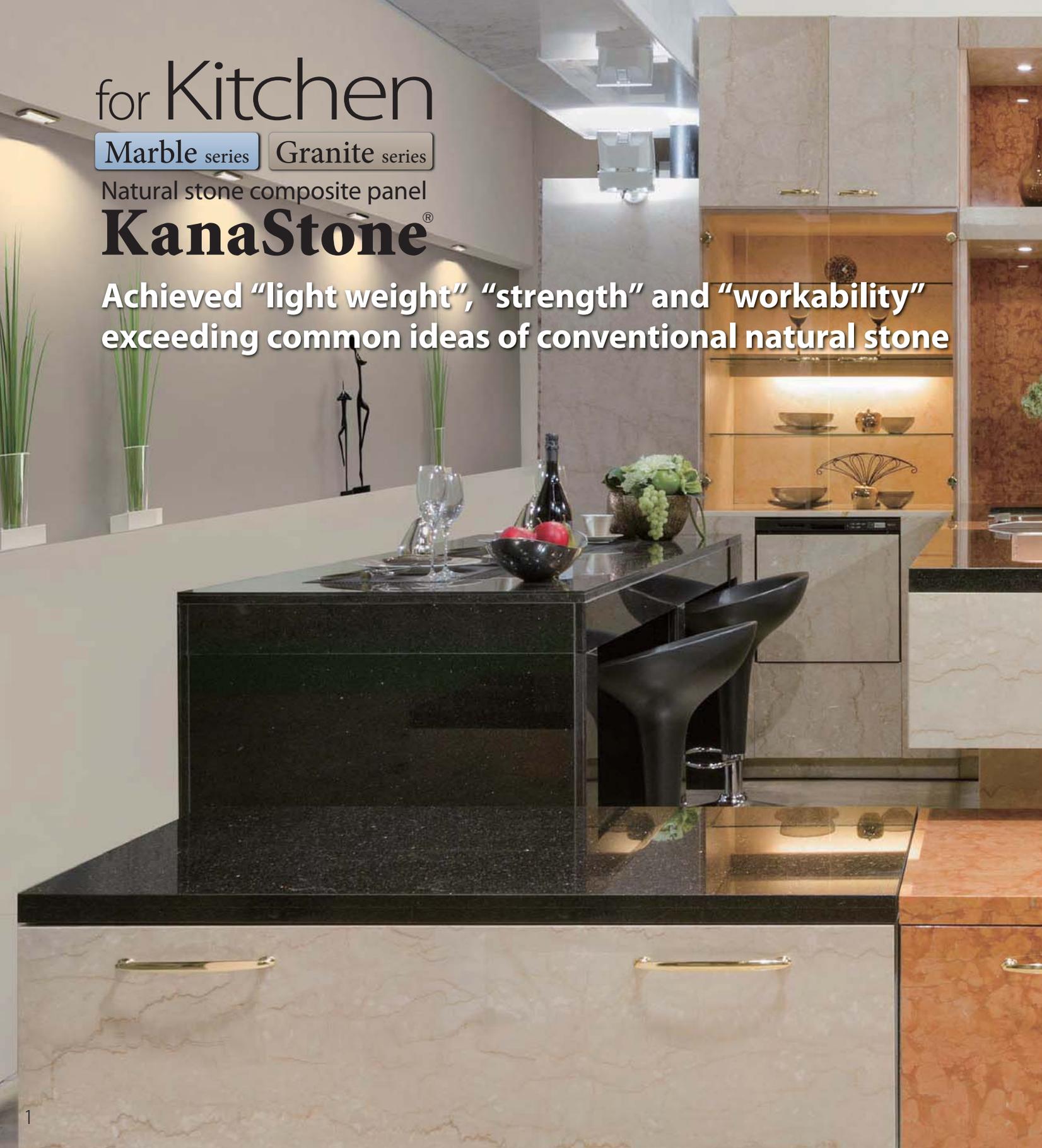
Marble series

Granite series

Natural stone composite panel

**KanaStone®**

Achieved "light weight", "strength" and "workability"  
exceeding common ideas of conventional natural stone





for Kitchen Natural stone composite panel  
Marble series Granite series **KanaStone®**

KanaStone is a natural stone composite panel obtained by slicing natural stone such as marble or granite and combining it with a lining panel which we developed. We have realized "light weight", "strength" and "workability" exceeding common ideas of conventional natural stone. Further, KanaStone has non-combustible performance necessary as an interior material, and is a new building material which is equivalent to F★★★★, and excellent in water resistance.









for Kitchen  
Marble series Granite series

Natural stone composite panel  
**KanaStone®**

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Natural stone composite panel

Marble series

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**KanaStone**<sup>®</sup>

**Kanaflex**<sup>®</sup> Patent No. 4454693







**Doors and drawers made by stone  
achieved light weight.**



for Kitchen  
Marble series Granite series

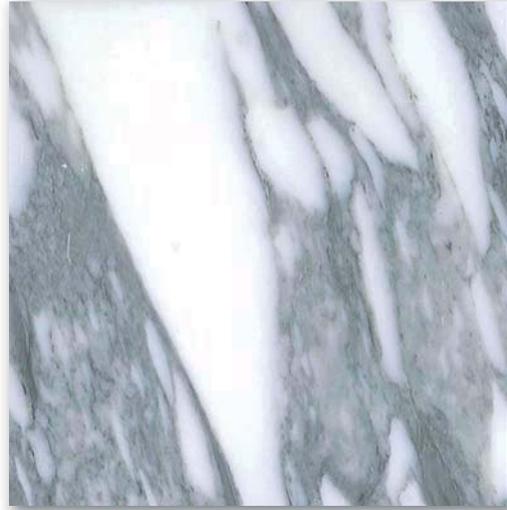
Natural stone composite panel  
**KanaStone®**

# KanaStone® Marble series for Kitchen

\*There are some variations in color tone and grain pattern because surface material is natural stone.



Bianco Calala



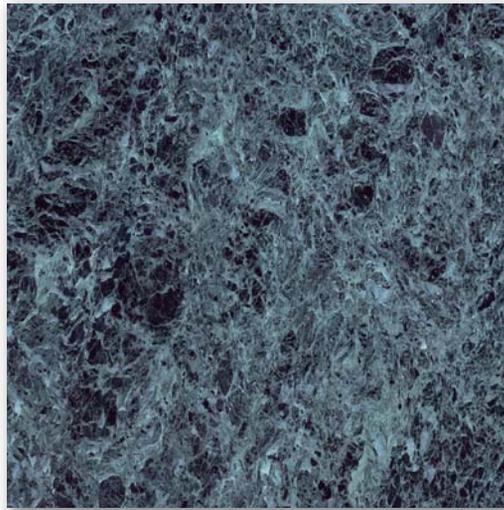
Arabescato



Potechino



Rosso Alicante



Tinos Green



Saint Florient Rose

# KanaStone® Marble series for Kitchen

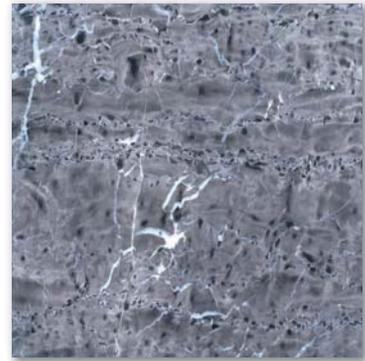
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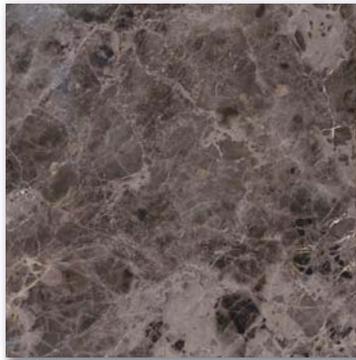
Drama White



Creema Marfilimg



Gray Mist



Emperador Dark



Tiger Beige



Nero Crown



Travertine



Limra



Pelata Svevo



Gela Yellow



Brown Parlor



Serpeggiante

# KanaStone<sup>®</sup> Marble series for Kitchen

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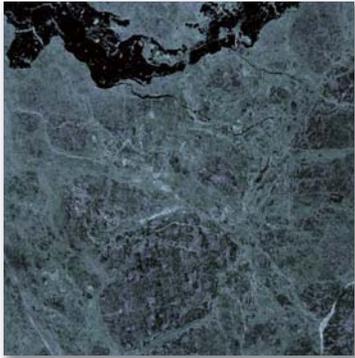
Moca Cream



Grigio Carnico



Thasos White



Taiwan Serpentine



Epera Dol Light



Rosso Verna



Perlino Caro



Golden Travertine



Swedish Green



Rosa Bellino



Svevo Royal



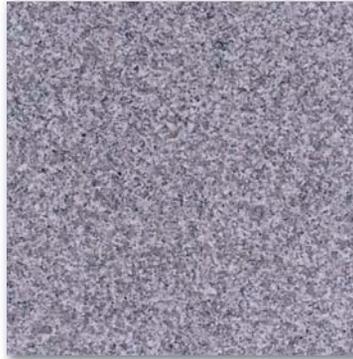
Red Travertine

# KanaStone® Granite series for Kitchen

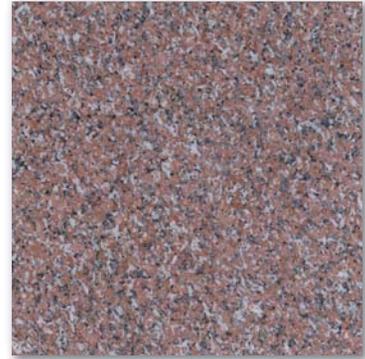
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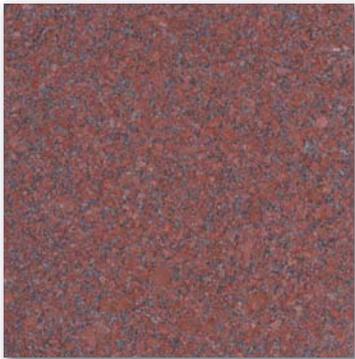
G603



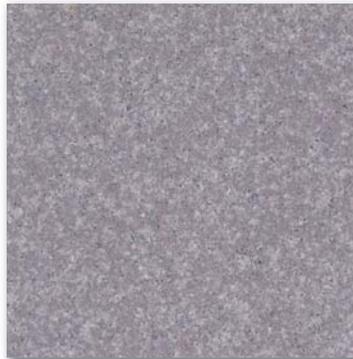
G623



G386



New Imperial Red



G634



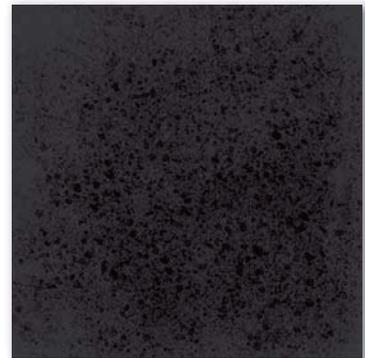
G309



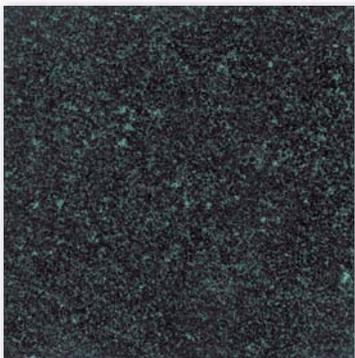
G682



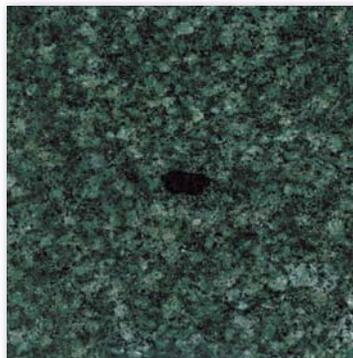
G367



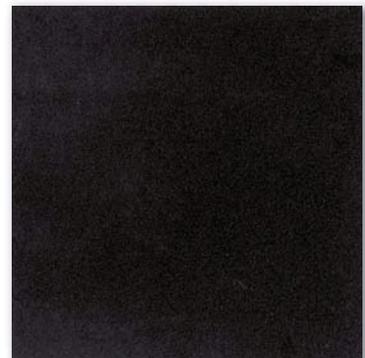
G684



G381



Verde Fontein



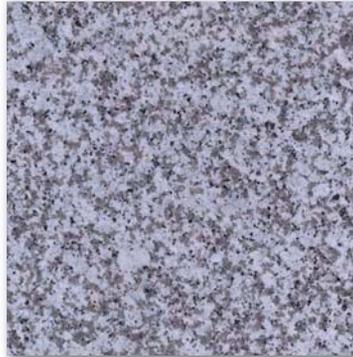
Sanseikuro

# KanaStone® Granite series for Kitchen

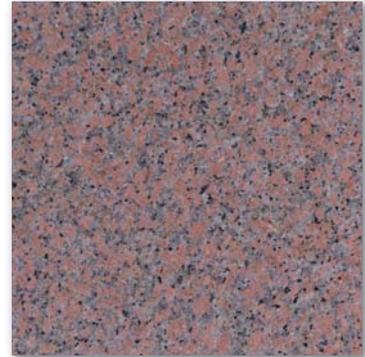
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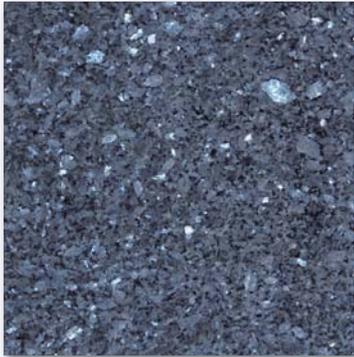
Black Galaxy



G439



G562



Blue Pearl



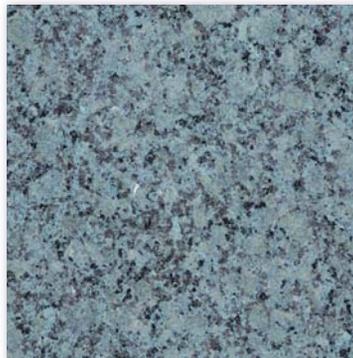
G635



G430



African Yellow



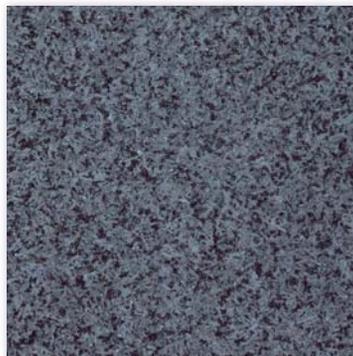
Prata Gaucho



Rustenburg



Caledonia



Sienit Monchique



Sapphire Brown

## Warpage displacement

High strength "Karuita" **1.24mm**

Structural plywood **6.16mm**

Particle board **7.00mm**

\*In house testing (600mm×600mm ratio)



High strength "Karuita"



Structural plywood



Particle board

Compared with structural plywood and particle board, High Strength Karuita almost never warp in our test.

## Screw retaining strength

Durability and screw retaining strength of the joint portion

Comparison

Particle board

Screw **1.3** times

Coarse screw **1.2** times

	A screw (2.7mm screw)	B screw (coarse screw)
High strength "Karuita"	597.2N	590.5N
Particle board	468.4N	494.5N
Softwood laminated wood	487.2N	485.6N
High strength "Karuita" / Particle board	1.3 times	1.2 times
High strength "Karuita" / Softwood laminated wood	1.2 times	1.2 times



When compared to laminated wood, the screw retaining strength of high strength "Karuita" was 1.3 times firm for wood screw, 1.2 times firm for a coarse screw.

Surprising light weight

For large panel of 24 inch × 72 inch × 4/5 inch



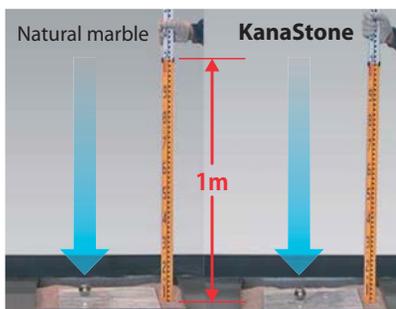
Natural stone approx. 130 pounds or more



approx. 69 pounds

Impact resistance

Conducted tests dropping steel ball of 1 pound from height of 3 feet.



Natural marble Damaged



KanaStone No change



No crack was detected even by drop test from 10 feet

Bending test

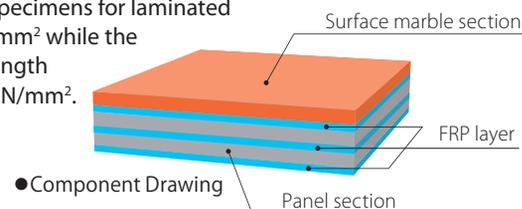


Comparable to softwood laminated wood

The bending strength is comparable to a normal laminated wood.

\* Testing Method

According to the bending test guideline for boards (JIS A 1408), the average of 3 specimens for laminated wood was 34.5N/mm<sup>2</sup> while the same for high strength "Karuita" was 36.3N/mm<sup>2</sup>.



## Water resistance

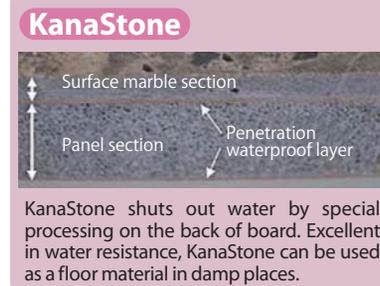
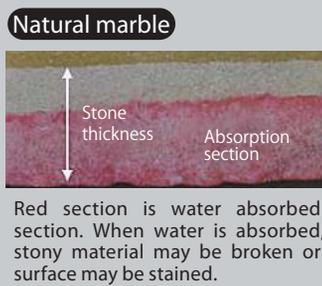
### Water absorption test by water solution

Test method: Examines water absorption of water solution from the back surface for 24 hours.



**Compliant with JIS A 1414-3**

\* Waterproof treatment is required to prevent water absorption from the side.



## Formaldehyde test



### Rated as F Four Stars (★★★★) grade

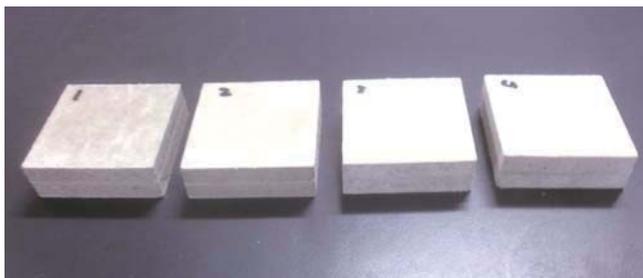
High strength "Karuita" possess low form aldehyde diffusion and it can be rated as F Four Stars (★★★★) grade.

\* Testing Method

150x50 sized specimen to be sealed in a desiccator and and to be kept for 24 hours.

Measure the formaldehyde diffused comparing to distilled water left for 24 hours. The increase was under 0.3mg/L.

## Immersion detaching test



### Will not be effected

Laminated wood with its layers adhered, the adhesive will elute under high temperature and humidity leading to a detachment. The high strength "Karuita" does not apply any adhesive and will not be effected by high temperature and humidity with its FRP finishing.

\* Testing Method

Dry the specimen under 60°C for 3 hours after immersing it to 70°C water for 2 hours. The JAS standard states any detachment to be detected shall be under 50mm. High strength "Karuita" finds not detachment at all.

## Water content test



**only 1%**

High strength "Karuita" has only 1% in its water content and is durable against corrosion.

\* Testing Method

The specimen will be kept in a 103°C drying oven and its weight has been measured with a 1% reduction.

## Incombustible performance

Kanastone is approved as incombustible material by Minister of Land, Infrastructure and Transport.



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Natural stone composite panel

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**Kanaflex**<sup>®</sup>

## Kanaflex Corporation Co., Ltd.

<http://www.kanaflexcorp.com>

### **KANAFLEX CORPORATION of CALIFORNIA**

750 West Manville Street, Compton, CA 90220, USA  
TEL: 1-310-637-1616 FAX: 1-310-637-9067

### **KANAFLEX CORPORATION of ILLINOIS**

800 Woodlands Parkway, Vernon Hills, IL 60061, USA  
TEL: 1-847-634-6100 FAX: 1-847-634-6249

### **KANAFLEX ESPANA, S.A**

C/ Gerona, 11-Apartado 91-08120 La Llagosta, Barcelona, SPAIN  
TEL: 34-93-560-7152 FAX: 34-93-560-6662

### **JAPAN Tokyo Head Office**

6-10-1 Roppongi, Minato-ku, Tokyo, 106-6117 JAPAN  
(17F Roppongi Hills Mori Tower)  
TEL: 81-3-5770-5111 FAX: 81-3-5770-5130

### **JAPAN Osaka Head Office**

1-8-30 Tenmabashi Kita-ku, Osaka, 530-6017 JAPAN  
(17F OAP Tower)  
TEL: 81-6-6881-0767 FAX: 81-6-6881-0769

### **BEIJING KANAFLEX NEW CONSTRUCTION MATERIALS CO.,LTD.**

北京嘉纳福新型建材有限公司(总公司)  
NO. JIA 53 KE JI ROAD BEIJING MIYUN INDUSTRIAL  
DEVELOPMENT ZONE BEIJING, CHINA  
北京市密云县经济开发区科技路甲53号  
TEL: 86-010-6907-5511 FAX: 86-010-6907-5432

### **BEIJING KANAFLEX NEW CONSTRUCTION MATERIALS CO.,LTD.**

#### **CHAO YANG BRANCH**

北京嘉纳福新型建材有限公司朝阳分公司  
ROOM 2006, CHANG FU GONG OFFICE BUILDING, JIA26, JIAN  
GUO MEN WAI STREET, CHAOYANG DISTRICT BEIJING, CHINA  
北京市朝阳区建国门外大街甲26号长富宫办公楼2006号  
TEL: 86-010-6523-7080 FAX: 86-010-6523-2210