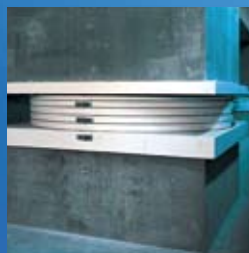
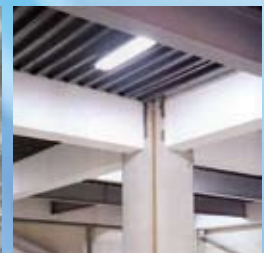


# General Catalog of Building Materials

2015 Edition  
Interior Materials  
Exterior Materials

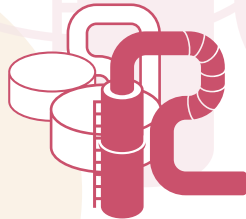


# Our mission: To protect amenable social environments To protect precious lives

Protection for commercial buildings,  
housing complexes,  
detached housing



Protection for factories, industrial plant



Protection for tunnels and vehicles



Protection for ships



## Protection any time, any place

Protection for the environment



Protection for steel-frames



Protection for pipes



Fire, heat and sound play essential roles in our lives, but sometimes they can also become threats. A&A Materials has developed fire-resistant and noncombustible materials to protect precious lives and property from fire, and soundproof materials to keep unpleasant noise out of living spaces. By protecting buildings, we also protect lives and society itself. Our continuing challenge is to protect amenable social environments.

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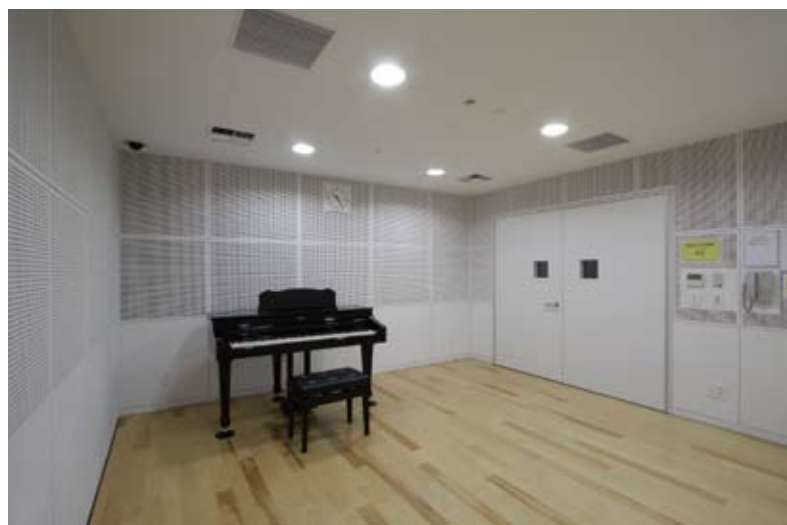
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# AAM GALLERY Our Interior Materials in Use



Midori Art Park (Midori Ward Cultural Center  
Midori Art Park, Yokohama City)  
Base material for hall ceiling and interior walls  
FG Board



Mihama Culture Hall  
Hiluc perforated  
panels in  
No. 1 Studio



Ekutesu Hall,  
Shikoku Gakuin University Soffits  
Selflex A





Osaka Mode Gakuen  
(HAL Osaka General Campus)  
Interior walls of external section of sphere  
FG Board



Shopping Mall  
Pillar base materials  
FG Board

Ario Ichihara Shopping Mall  
Curved hanging partition walls  
FG Board



Maruhan Kamiotai Station Branch  
Interior walls  
FP FG Board (decorative finish, partially covered with mirrors)



# AAM GALLERY Our Interior Materials in Use



Research facility (interior walls and ceiling in clean room)  
Stendo#500



**SIAA**  
ISO 22196  
for KOHKIN  
Inorganic antimicrobial  
Painting decorative  
surface layer  
JP0122128A0002T

School facility  
Interior walls  
Stendo#400 wood grain



Noshinkei Rehabilili Kitaoji Hospital  
Stendo#1000  
in Operating Room



Yukiwari no Sato Intensive Care Home for the Elderly  
Interior toilet walls  
Stendo#400 wood grain



Inorganic antimicrobial  
Painting decorative  
surface layer  
JP0122128A0002T

the SIAA brand mark is borne on products evaluated according to ISO 22196 and they are under quality control and information disclosure by the guidelines of the Society of International sustaining growth for Antimicrobial Articles.

**[Target product]**  
Stendo#400 wood grain

Shima City School Lunch Center  
Kitchen ceiling and interior walls  
Stendo#400



●Items relating to interior materials

|                       |    |
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| Stendo#400            | 21 |
| Stendo#400 Wood Grain | 22 |
| Stendo#500/T/S/MR     | 23 |
| Stendo#300            | 24 |
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| Cera-Art Ecoshiny S   | 27 |
| Cera-Art Bright       | 28 |
| Cera-Art Linebright   | 29 |
| FG Board              | 11 |
| Hiluc                 | 12 |
| Hiluc M               | 13 |
| Selflex A             | 13 |
| Selflex               | 14 |



# AAM GALLERY Our Exterior Materials in Use



Higashiosaka City Fire Department  
 Training wall  
 Guard Panel N  
 Used for abseiling practice and other training activities



Abseiling practice

● Items relating to exterior materials

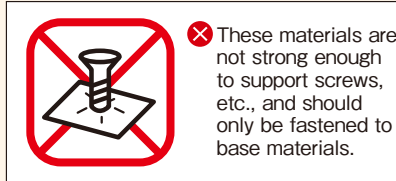
|                    |    |
|--------------------|----|
| Selflex A          | 13 |
| Selflex            | 14 |
| Guard Panel N      | 14 |
| Eave Ichiban Flat  | 15 |
| Eave Ichiban Weave | 15 |



# To ensure safety, please observe the following instructions.

## ■ Using our products

### ● Noncombustible boards



#### Design Information

- ⚠ When used in building parts that require fireproof or fire-resistant structures, they must be used in accordance with approval conditions.
- ⚠ Please seek advice before using these products (including their use as underlay materials) under special conditions, such as high temperatures or humidity.
- ⚠ Colors may vary between production lots.
- ⚠ When using both sides of a product, please note that there are differences in color and surface conditions between upper and back surfaces.

#### Important Information about Transportation and Storage

- ⚠ Boards should be stacked on pallets or planks to prevent them coming into direct contact with the ground. If they must be stored outside temporarily, they should be covered with protective sheets.
- ⚠ These products should be handled carefully and protected from impacts or load shifting.
- ⚠ Never climb on top of the products while they are in storage.
- ⚠ For long-term storage, the products should not be left stacked on planks. They should be stacked on a flat, smooth surface, such as a pallet.
- ⚠ Deformation may occur if the products are stored upright.

#### Important Information about Installation

- ⚠ Install the products correctly, using the standard installation method indicated.
- ⚠ When installing 910x910mm products, align the boards according to the arrows on the reverse side.









#### Important Information about Waste and Leftover Materials

- ⚠ Construction industry waste must be disposed of in accordance with the of the country/region concerned.

#### Important Information about Safety

- ⚠ Refer to MSDS documentation for information about harmful substances, etc.
- ⚠ Always take appropriate safety precautions when working in high locations.
- ⚠ Always use dust extraction equipment when cutting materials with power tools.
- ⚠ Always wear protective gear, including dust masks and goggles, when using power tools.
- ⚠ Install dust extraction equipment if tasks that generate dust are carried out in indoor locations.
- ⚠ Workers should be encouraged to gargle and wash their hands after handling the products.

## ● Important Information about Noncombustible Decorative Boards

|  |  |  |
|--|--|--|
|  <p>✘ Only use these products for the recommended purposes.</p>   |  <p>✘ These boards are not suitable for exterior use and must only be used for interior finishing.</p>                  |  <p>✘ Never store these boards in locations where they are exposed to direct sunlight, rain or high humidity.</p> |
|  <p>✘ Storage in an upright position can cause cracking in the decorative surface. Always stack the panels on a flat surface.</p> |  <p>✘ These materials are not strong enough to support screws, etc., and should only be fastened to base materials.</p> |  <p>✘ When making holes, avoid the use of tools that cause impacts, such as slate hammers.</p>                    |
|  <p>✘ Avoid the use of highly adhesive products, such as packaging tape, as masking tape.</p>                                     |  <p>✘ Boards should never be left for long periods with masking tape applied.</p>                                       |  |

### Design Information

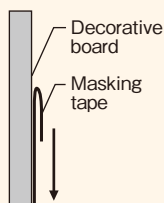
- ▲ Seek advice before using these boards under special conditions, such as high temperatures or humidity.
- ▲ Colors may vary between production lots.

### Important Information about Handling and Storage

- ▲ Boards should be stacked on pallets or planks to prevent them coming into direct contact with the ground. If they must be stored outside temporarily, they should be covered with protective sheets.
- ▲ These products should be handled carefully and protected from impacts or load shifting.
- ▲ Never climb on top of the products while they are in storage.
- ▲ For long-term storage, the products should not be left stacked on planks. They should be stacked on a flat, smooth surface, such as a pallet.
- ▲ The protection paper on the decorative surface of the boards is slippery. Care must be taken to avoid load shifting.

### Important Information about Installation

- ▲ Masking tape should be removed slowly in the direction shown in the diagram on the right.
- ▲ Install the products correctly, according to the standard installation method indicated.
- ▲ When the sub-layer is made of calcium silicate boards, use sealer application for calcium silicate board surfaces.
- ▲ Do not install the boards with adhesive if the room temperature is below 5°C or will fall below 5°C before the adhesive sets.
- ▲ When the installation mentioned above is unavoidable, use heating or other methods to cure the adhesive.
- ▲ Use a neutral detergent to remove dirt.
- ▲ Remove the protective film after installation (Cera-Art Series).



### Important Information about Waste and Leftover Materials

- ▲ Construction industry waste must be disposed of in accordance with the of the country/region concerned.

### Important Information about Safety

- ▲ Refer to MSDS documentation for information about harmful substances, etc.
- ▲ Always take appropriate safety precautions when working in high locations.
- ▲ Always use dust extraction equipment when cutting materials with power tools.
- ▲ Always wear protective gear, including dust masks and goggles, when using power tools.
- ▲ Workers should be encouraged to gargle and wash their hands after handling the products.

- ✘ Prohibited action
- ▲ Warning

## ● Disclaimer

When preparing designs or installing products, please be aware that no liability will be accepted in any of the following circumstances.

1. If problems are caused by user-prescribed specifications and installation methods, etc., that differ from the standard specifications stipulated by A&A Material Corporation
2. If problems are caused by user-supplied materials and parts that differ from the standard specifications
3. If problems result from the use of supplementary materials other than those recommended by A&A Material Corporation
4. If problems are caused by external factors not related to the products of A&A Material Corporation, such as deformation or aging of the building structure or ground, or external impacts
5. If problems occur as a result of post-delivery changes to structures or specifications, etc.
6. If the product is affected by soiling that would normally occur with the passage of time
7. If problems are caused by the use, storage or transportation, etc., of the materials in environments other than the normal conditions (temperature, humidity, air pressure, etc.) anticipated at development, manufacturing and sales stages.
8. If problems are caused by special factors, such as earthquakes or typhoons.



## Noncombustible boards

FG Board

Hiluc

Hiluc M

Selflex A

Selfflex

Guard Panel N

Eave Ichiban Flat

Eave Ichiban Weave



Curvable fiber gypsum boards

**FG Board** (Noncombustible) NM-2967



Ario Ichihara shopping mall

**Create beautiful curved designs with this noncombustible board**

Although gypsum-based, this revolutionary noncombustible board can be used to create curved surfaces. Flexible yet strong, it can easily be bent to follow an extremely tight curvature radius. This characteristic opens up a wide range of interior design possibilities. Other advantages include toughness and excellent sound insulation properties.

**Standard Dimensions**

|                |                   |          |                      |     |          |      |      |
|----------------|-------------------|----------|----------------------|-----|----------|------|------|
| Thickness      | mm                | 4        | 5                    | 6   | 8        | 10   | 12   |
| Width × Length | mm                | 910×1820 | 910×1820<br>910×2420 |     | 910×1820 |      |      |
| Weight         | kg/m <sup>2</sup> | 6.4      | 8.0                  | 9.6 | 12.8     | 16.0 | 19.3 |

※Please inquire about other dimensions.  
 ※Standard product weights are standard values adjusted for moisture absorption ratios.



※Perforated boards are not classed as noncombustible

Noncombustible boards

Noncombustible decorative boards

**Features**

●FG Boards can readily be installed using dry or wet methods according to the curvature required

●Curvature radius (Unit:mm)

|           |               |                |                |
|-----------|---------------|----------------|----------------|
| Thickness | 5             | 6              | 8              |
| Dry       | 800 or higher | 1000 or higher | 1200 or higher |
| Wet       | 150 or higher | 200 or higher  | 400 or higher  |

- Resistant to expansion and shrinkage, this product has excellent dimensional stability and will ensure a beautiful finish
- FG Board can be processed to form curves and is as tough as flexible boards
- This product readily supports a wide range of processing methods, including cutting, planing and direct nailing
- FG Board is also a highly effective interior material in situations that require sound insulation
- FG Board has been approved by the Minister of Land, Infrastructure, Transport and Tourism as a noncombustible material

**Uses**

- ◆Suitable for interior walls, partitions, ceilings, etc., in various types of buildings
- ◆Ideal for areas in which beautiful curved surfaces are required, such as ceilings, walls and columns
- ◆Excellent for partition walls in fire-resistant structures and sound insulation structures in apartment boundary walls

## 0.8 Calcium Silicate Boards (0.8FK)

**Hiluc** JIS A 5430 (Noncombustible) NM-2773



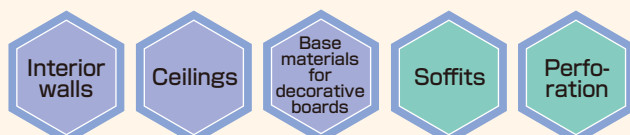
### With an established reputation for lightness and impact-resistance, the Hiluc range has set a new standard for noncombustible boards

The main materials used in these autoclave-cured interior boards are calcium silicate, limestone materials and reinforcing fibers. Designed to minimize expansion and contraction caused by moisture absorption, they provide excellent dimensional stability. Hiluc products are light, easy to process and highly resistant to impact damage. They are also suitable as base materials for decorative boards

#### Standard Dimensions

| Thickness mm             | 5   | 6   | 8   | 9        | 10  | 12   |
|--------------------------|---|---|-----|----------|-----|--|
| Width × Length mm        | 910×910<br>910×1820<br>910×2420<br>1000×2000<br>1210×2420 | 910×910, 910×1820<br>910×2420, 1000×2000<br>1210×2420, 910×2730 |     | 910×1820 |     | 910×910<br>910×1820<br>910×2420<br>1000×2000 |
| Weight kg/m <sup>2</sup> | 4.7   | 5.6   | 7.5 | 8.5      | 9.4 | 11.3   |

\*Standard product weights are standard values adjusted for moisture absorption ratios.



#### Features

- Light and springy, these interior finishing materials are highly resistant to impact damage
- Hiluc products are extremely versatile and can be installed by both one shot screw fixing without pre-opening, or stapling methods
- With a thermal conductivity ratio similar to that of wood, Hiluc products provide excellent thermal insulation for added comfort
- For superior dimensional stability, these products are designed to minimize expansion and contraction resulting from moisture absorption
- Hiluc products have been approved by the Minister of Land, Infrastructure, Transport and Tourism as a noncombustible material

#### Uses

- ◆ Suitable for a wide range of uses, including interior finishing and soffits in houses, commercial buildings and various other structures
- ◆ Ideal for fire-preventive, quasi-fireproof and fireproofing systems and sound insulation systems in apartment partition walls



## 1.0 Calcium Silicate Boards (1.0 FK)

# Hiluc M

JIS A 5430  
(Noncombustible)  
NM-3021



## Excellent Stability and Durability

Humidity behavior is negligible thanks to the crystallization effect of autoclave curing. As a result, these products will retain their stability and quality for many years. Unlike timber and steel, calcium silicate boards will never rot or rust.

### Features

- Light and springy, these interior finishing materials are highly resistant to impact damage
- Hiluc products are extremely versatile and can be installed by both one shot screw fixing without pre-opening, or stapling methods
- With a thermal conductivity ratio similar to that of wood, Hiluc products provide excellent thermal insulation for added comfort
- For superior dimensional stability, these products are designed to minimize expansion and shrinkage resulting from moisture increase/decrease
- Hiluc M has been approved by the Minister of Land, Infrastructure, Transport and Tourism as a noncombustible material

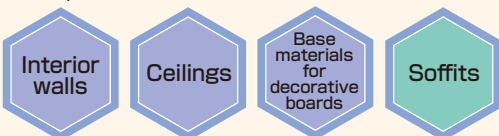
### Uses

- ◆ Especially suitable as high-performance base board for decorative boards
- ◆ Ideal for a wide range of interior finishing uses in various types of buildings
- ◆ Ideal for fire-preventive, quasi-fireproof and fireproof structures and sound insulation structures in apartment partition walls

## Standard Dimensions

|                |                   |          |     |     |
|----------------|-------------------|----------|-----|-----|
| Thickness      | mm                | 4        | 6   | 8   |
| Width × Length | mm                | 910×1820 |     |     |
| Weight         | kg/m <sup>2</sup> | 4.6      | 6.9 | 9.2 |

※Standard product weights are standard values adjusted for moisture absorption ratios.



## Autoclave-Cured Cement Boards for Interior Use

# Selflex A

(Noncombustible)  
NM-2695



## Manufactured with pride, these high-performance interior materials are the perfect answer for situations in which superior strength required

Selflex A products combine strength and flexibility and are extremely resistant to impact damage. To prevent warping due to aging, they are designed to minimize dimensional change by moisture. These products are also extremely versatile to support a variety of finishing and installation methods. They are manufactured with pride for use as interior and exterior board for walls, ceilings and other locations in all types of buildings.

### Features

- These cement boards are autoclave-cured for superior strength
- Age-related deformation is extremely minimal. These products have an established reputation for dimensional stability.
- For enhanced ease of finishing, the boards are press-molded under high pressure to create smooth surfaces
- Selflex A has been approved by the Minister of Land, Infrastructure, Transport and Tourism as a noncombustible material

### Uses

- ◆ Especially suitable as high-performance base materials for decorative boards
- ◆ Ideal for a wide range of interior finishing uses in various types of buildings

## Standard Dimensions

|                |                   |          |     |      |
|----------------|-------------------|----------|-----|------|
| Thickness      | mm                | 4        | 5   | 6    |
| Width × Length | mm                | 910×1820 |     |      |
| Weight         | kg/m <sup>2</sup> | 7.5      | 9.4 | 11.2 |

※Please inquire about 1000×2000mm products in 5mm and 6mm thicknesses.

※Standard product weights are standard values adjusted for moisture absorption ratios.



Flexible Boards for Interior and Exterior Finishing

# Selflex

JIS A 5430  
(Noncombustible)  
NM-2694



## These versatile products are suitable for both interior and exterior walls

Strong and flexible, these boards are highly resistant to impacts and also provide weather resistance, making them the ideal choice for a wide range of interior and exterior finishing uses. Selflex products are designed to minimize deterioration with age and provide reliable quality over many years.

### Features

- High-strength flexible boards
- Excellent durability
- Superior weather resistance, even when unpainted
- Approved by the Minister of Land, Infrastructure, Transport and Tourism as a noncombustible material

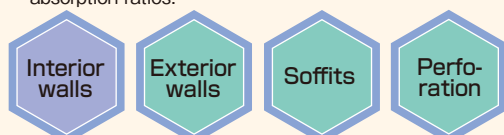
### Uses

- ◆ Interior and exterior walls, soffits, etc.
- ◆ Especially suitable for interior and exterior walls in open buildings that are exposed to the external environment

### Standard Dimensions

| Thickness mm             | 4   | 5   | 6    | 8  | 10                    | 12       |
|--------------------------|---|-----|------|--|-----------------------|----------|
| Width × Length mm        | 910×910<br>910×1820<br>910×2420<br>1000×2000<br>1210×2420 |     |      | 910×1820<br>910×2420<br>1000×2000<br>1210×2420 | 910×1820<br>1000×2000 | 910×1820 |
| Weight kg/m <sup>2</sup> | 7.5   | 9.4 | 11.2 | 15.0   | 18.8                  | 22.4     |

※Standard product weights are standard values adjusted for moisture absorption ratios.



Flexible Panels for Exterior Finishing

# Guard Panel N (Noncombustible) NM-2871



## Dependable protection against rain, sun and impacts

These strong, flexible panels provide a high level of performance, including strength, flexibility and impact resistance which is always required for exterior material.

They also provide weather resistance, and deterioration with age is minimal. Guard Panel N products are the ideal materials for wide range of requirements, including external walls and noise barriers.

### Features

- High-strength flexible boards
- Excellent durability
- Superior weather resistance, even when unpainted
- Approved by the Minister of Land, Infrastructure, Transport and Tourism as a noncombustible material

### Uses

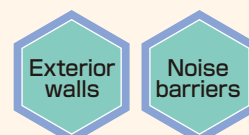
- ◆ Exterior wall material for all types of buildings
- ◆ Opposing walls and noise barriers in stations, etc.

### Standard Dimensions

| Thickness mm             | 16.5                | 20       |
|--------------------------|---------------------|----------|
| Width×Length mm          | 910×1820, 1000×2000 | 910×1820 |
| Weight kg/m <sup>2</sup> | 30.9                | 37.4     |

※Please inquire about other dimensions.

※Standard product weights are standard values adjusted for moisture absorption ratios.



## Calcium Silicate Boards for Soffits

### Eave Ichiban Flat (Noncombustible) NM-2773

**This thin, light, high-performance noncombustible board was designed to provide reliable fire-preventive performance as a soffit material**

Enhanced fire-preventive performance is essential in soffits, which can otherwise allow fires to spread. Eave Ichiban Flat calcium silicate boards are thin, lightweight noncombustible boards specifically designed for use in soffits.

#### Features

- Light for easy handling
- Can be sawn, planed, nailed or fixed with wood screws in the same way as wood
- Excellent dimensional stability—minimal expansion or shrinkage resulting from humidity or temperature changes
- Reliable, long-term durability—no rotting even when wet

#### Uses

- ◆ Any soffit areas where non-combustibility is required
- ◆ Soffits in houses, condominiums, warehouses, etc.
- ※ Please seek advice before using this product in cold areas.

### Standard Dimensions

|                |                   |          |
|----------------|-------------------|----------|
| Thickness      | mm                | 5        |
| Width × Length | mm                | 910×1820 |
| Weight         | kg/m <sup>2</sup> | 4.7      |

※ Standard product weights are standard values adjusted for moisture absorption ratios.



## Decorative Calcium Silicate Boards for Soffits

### Eave Ichiban Weave (Noncombustible) NM-8579

**These decorative soffit boards are ideal for situations that require design features as well as superior performance characteristics, such as non-combustibility and lightness**

The fireproof performance of soffit materials has a major impact on overall building safety. In addition to their fireproof performance, Eave Ichiban Weave decorative calcium silicate boards are also designed to enhance the appearance of buildings with an attractive embossed wicker pattern.

#### Features

- Wicker pattern for a high-quality finish across the entire soffit area
- Can be sawn, planed, nailed or fixed with wood screws in the same way as wood
- Excellent dimensional stability—minimal expansion or shrinkage resulting from moisture changes
- Reliable, long-term durability—no rotting even when wet

#### Uses

- ◆ Any soffit areas where non-combustibility is required
- ◆ Soffits in houses, condominiums, warehouses, etc.
- ※ Please seek advice before using this product in cold areas.
- ※ Avoid using this product on a steel-frame base.



### Standard Dimensions

|                |                   |          |
|----------------|-------------------|----------|
| Thickness      | mm                | 6        |
| Width × Length | mm                | 910×1820 |
| Weight         | kg/m <sup>2</sup> | 5.6      |

※ Standard product weights are standard values adjusted for moisture absorption ratios.





# Perforated Panels

We can supply perforated panels by applying a perforation process to noncombustible boards. These products are suitable for use in house soffits as ventilation materials, and in interior walls and ceilings to improve sound absorption.

## Line up

These products are available in the sizes below and with the following standard hole sizes and pitches.

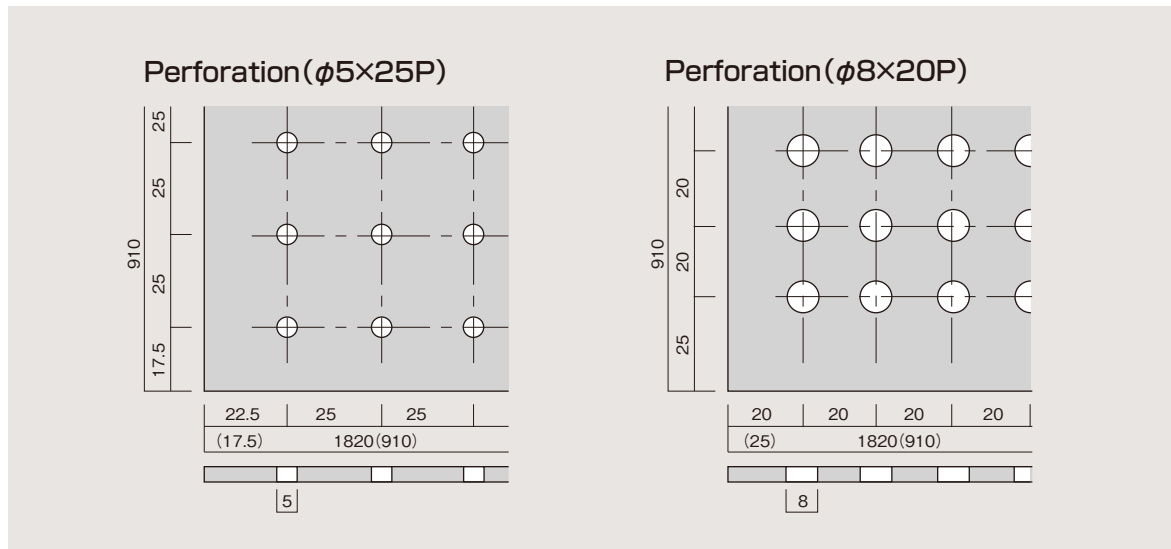
| Type                   | Thickness mm | Width × Length mm   | Diameter × Pitch mm | Perforation ratio %   |
|------------------------|--------------|---------------------|---------------------|-----------------------|
| FG Board               | 4、5、6        | 910×910<br>910×1820 | φ5×25P<br>φ8×20P    | Approx.3<br>Approx.12 |
| Hiluc Noncombustible   | 5、6、8、12     |                     |                     |                       |
| Selflex Noncombustible | 4、5、6        |                     |                     |                       |

※Please inquire about other dimensions.

※Perforated FG boards are not classed as noncombustible materials.

## Product Overview

(unit:mm)



# Standard Properties of Noncombustible Boards

We supply noncombustible boards with a wide range of compositions and performance characteristics, including flexible boards, calcium silicate boards and gypsum boards.

## ● Properties of products covered by JIS standards

We supply flexible boards and calcium silicate boards.

The physical properties of these products are controlled to comply with JIS A 5430. (see pages 20 and 21 for information about JIS A 5430.)

## ● Properties of products not covered by JIS standards

We also supply a range of noncombustible boards that are not covered by JIS standards. The standard properties of these products are as shown in the table below.

| Type          | Standard Value                        |   |                    |                                       |                             |  |                               |
|---------------|---------------------------------------|---|--------------------|---------------------------------------|-----------------------------|--|-------------------------------|
|               | Apparent density<br>g/cm <sup>3</sup> | Bending strength<br>N/mm <sup>2</sup><br>(lengthwise) | Water permeability | Length variation<br>%<br>(lengthwise) | Water absorption ratio<br>% | Young's modulus<br>N/mm <sup>2</sup><br>(lengthwise) | Thermal conductivity<br>W/m·K |
| Guard Panel N | 1.7                                   | 30  | —                  | 0.15                                  | 17                          | 14×10 <sup>3</sup>                                   | 0.40                          |
| FG Board      | 1.6                                   | 15  | —                  | 0.07                                  | 18                          | 13×10 <sup>3</sup>                                   | 0.35                          |
| Test method   | JIS A 5430                            | JIS A 5430  | JIS A 5430         | JIS A 5430                            | JIS A 5430                  | JIS A 1408   | JIS A 5430                    |

Because FG Boards are made from a gypsum-based material, test methods that do not cause crystalline water to break down are used. The JIS A 5430 test normally involves drying for 24 hours at 105°C, but with FG Boards drying is carried out for 24 hours at 60°C (or at 40°C for 24 hours in the case of a dementional movement test).

# A&A Materials Products that Comply with JIS A 5430

## ●What is JIS?

Japan Industrial Standards (JIS) are standards that define values and standards, including testing methods, that must be used to confirm types, dimensions, quality, performance and safety of products.

## ●JIS Mark Labeling

The inclusion of the JIS Mark in a product's label indicates that the product has met the requirements of the JIS standard. These marks are used as indicators in various situations, such as transactions between companies and procurement by government agencies. This label allows users to check instantly whether or not a product is of reliable quality. Until October 2005, the JIS mark labeling system was based on government approval. A new JIS Mark product certification system was then introduced, under which non-governmental third-party bodies (registered certification bodies), take responsibility for certification on an integrated basis.

## ●JIS-Compliant Products Supplied by A&A Materials

We obtain certification under JIS A5430:2008 (fiber-reinforced cement boards). Representative products are shown in the table on the right. All of these products are designed to protect buildings from earthquakes and fires and are widely used as building materials that contribute to safety and comfort.

## A&A Materials Products and JIS Categories

| A&AM Product                  | Type                    |        |                             | Code  | Main Uses                       |
|-------------------------------|-------------------------|--------|-----------------------------|-------|---------------------------------|
| Selflex                       |                         | Boards | Flexible boards             | F     | Interior and exterior finishing |
| Hiluc Thickness 5, 6, 8, 12mm | Calcium Silicate Boards | Type 2 | 0.8 Calcium Silicate Boards | 0.8FK | Interior finishing              |
| Hiluc M                       |                         |        | 1.0 Calcium Silicate Boards | 1.0FK | Interior finishing              |

## Physical properties (calcium silicate boards)

| A&A Materials Product | JIS standard value             |                                    |   |                            |   | Reference value          |                                    |
|-----------------------|--------------------------------|------------------------------------|---|----------------------------|---|--------------------------|------------------------------------|
|                       | Delivery testing               |                                    | Format testing                                |                            |   |                          |                                    |
|                       | Bulk density g/cm <sup>3</sup> | Bending strength N/mm <sup>2</sup> | Length variation caused by water absorption % | Thermal conductivity W/m·K | Fire-retardant or exothermic properties | Water absorption ratio % | Young's modulus kN/mm <sup>2</sup> |
| Hiluc                 | Min. 0.6<br>Max. 0.9           | Min. 10.0                          | Max. 0.15                                     | Max. 0.18                  | Grade 1 exothermic                      | 80                       | 6                                  |
| Hiluc M               | Min. 0.9<br>Max. 1.2           | Min. 13.0                          |   | Max. 0.24                  |   | 60                       | 9                                  |

※Delivery testing: Day-to-day testing products in continuous production to confirm that they meet the standards

※Format testing: Tests carried out when new products are manufactured, or when basic manufacturing conditions are changed

※Reference values: Representative performance levels used for reference purposes—

These values are measured in-house and are not guaranteed.



**Noncombustible  
decorative boards**

**Stendo#400**  
**Stendo#400 Wood Grain**  
**Stendo#500**  
**Stendo#500/T**  
**Stendo#500/S**  
**Stendo#500MR**  
**Stendo#300**  
**Stendo#1000**  
**Cera-Art Ecoshiny S**  
**Cera-Art Bright**  
**Cera-Art Linebright**



# Stendo Series

## Extensive range of color variations for creative interior finishing

soft

warm

cool

hard

● **Standard colors (always in stock)**

- 1A★ Snow White
- 2B★ Ivory
- 3B★ Bone White
- 4B★ Silky Green
- 5B★ Mist Blue
- 7B★ Coral Pink
- 8B★ Light Gray

● **Custom colors**

- 6B Sand Beige
- 10A Natural Cream
- 11B Buff Beige
- 12B Smoke Green
- 13B Frost Gray
- 14B Platinum Gray
- 15B Shell Pink
- 16B Baby Beige
- 17B Almond Yellow
- 18B Moon Gray
- 19B Aqua Blue
- 20B Elephant Blue
- 21C Camel Beige
- 22C Mocha Brown
- 23D Brick Brown
- 24D Beaver Brown
- 25D Forest Green
- 26D Midnight Blue
- 27D Steel Gray
- 28E Copper Orange
- 29E Mustard Yellow
- 30E Lawn Green
- 31E Petrol Blue
- 32E Marine Blue

**Availability of Colors for Each Product Type**

Stendo#400  
Stendo#500  
Stendo#500T  
Stendo#500S  
Stendo#500MR  
Stendo#300

Only the products listed above are available in the color specifications shown.

### Overview

**◆ Stendo#400**  
Decorative calcium silicate boards  
Standard products.

**◆ Stendo#500**  
The Stendo#500 Series of calcium silicate boards are suitable for clean room use. Beside #500 as standard, this series has #500T, #500S and #500MR.

**◆ Stendo#300**  
These decorative cement boards are suitable for areas in which strength is required and water is used.

**◆ Stendo#1000**  
These high-quality decorative cement boards are ideal for situations in which the hardness of the coated surface is a priority.

※All colored Stendo#500T/S/MR products are manufactured to order.  
 ※Stendo#500 : Color 1A (Snow White) is not available.  
 ※Stendo#300 : Color 15B (Shell Pink) is also available.  
 ※Information about colors for Stendo#1000 can be found on Page 41.

※In addition to standard colors and colors available on order, products can also be made in custom colors. Please contact us for detailed information.  
 ※Please note that actual colors may differ from those shown here because of the limitations of the printing process.

### Main Uses

| Item    | General interior finishing | Clean rooms                         | Toilets | Washrooms | Public facilities |
|---------|----------------------------|-------------------------------------|---------|-----------|-------------------|
| # 400   | ○                          |                                     | ○       | ○         | ○                 |
| # 500   | ○                          | ○                                   | ○       | ○         | ○                 |
| # 500T  |                            | ○ Static prevention                 | ○       | ○         | ○                 |
| # 500S  |                            | ○ Resistant to germicidal lamp rays | ○       | ○         | ○                 |
| # 500MR |                            | ○ Germ-resistant                    | ○       | ○         | ○                 |
| # 300   | ○                          |                                     | ○       | ○         | ○                 |
| # 1000  | ○                          | ○                                   | ○       | ○         | ○                 |

※Not suitable for locations subject to high temperatures and humidity, such as bathrooms.



## A lightweight, standard decorative board with excellent dimensional stability

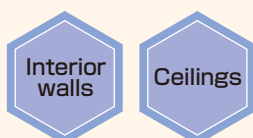
These lightweight noncombustible decorative boards consist of calcium silicate boards coated with urethane resin. For ease of installation on-site, they can be processed in the same way as wood. The base board (Hiluc) is highly resistant to impact and provides excellent dimensional stability, making these products ideal for a wide range of interior finishing uses. The stable composition of Stendo#400 products ensures that they will continue to provide excellent performance for many years. These decorative boards offer excellent cost-performance.

### Standard Specifications

|                 |   |                                    |
|-----------------|---|------------------------------------|
| Base board used | Hiluc (0.8 calcium silicate board)  |                                    |
| Thickness       | mm  | 6                                  |
| Width × Length  | mm  | 910×1820 (910× 910)                |
|                 |   | 910×2420 (910×2730)<br>(1000×2000) |
| Weight          | kg/m <sup>2</sup>   | 5.6                                |
| Remarks         | Decorative side chamfered on all four edges, treated with surface sealer on the reverse side. |                                    |

※Dimensions shown in ( ) are manufactured to order. Please inquire.

※Standard product weights are standard values adjusted for moisture absorption ratios.



### Features

- Interior decorative panels coated with urethane resin
- Lightweight standard products made with base boards that are highly resistant to impacts and bending
- Excellent dimensional stability, extremely low levels of shrinkage and deterioration
- Not classed as formaldehyde emitting materials, warning labels not required

### Uses

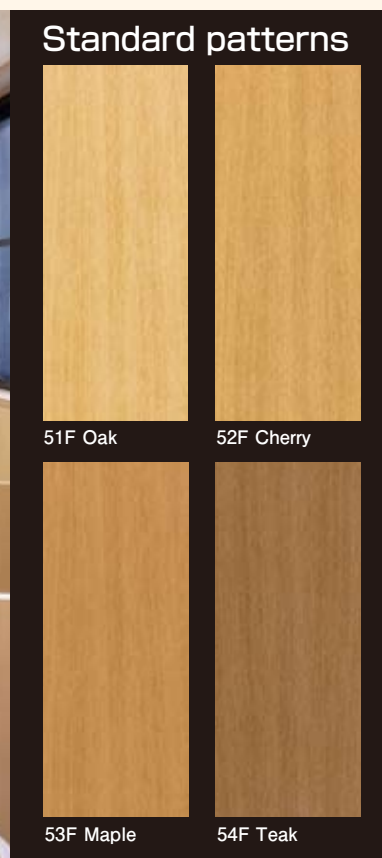
- ◆ General interior finishing in commercial buildings, factories, warehouses, etc.
- ◆ Interior walls and ceilings in station buildings, public facilities, etc.
- ◆ A wide range of general interior finishing uses



Inorganic antimicrobial  
Painting decorative  
surface layer  
JP0122128A0002T

the SIAA brand mark is borne on products evaluated according to ISO 22196 and they are under quality control and information disclosure by the guidelines of the Society of International sustaining growth for Antimicrobial Articles.

[Target product]  
Stendo#400



※Please note that actual colors may differ from those shown here because of the limitations of the printing process.

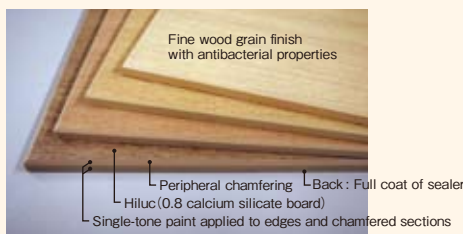
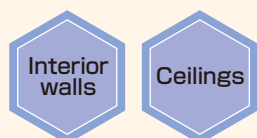
## Elegance plus cost performance-ideal for creating a soothing ambience

New wood grain patterns have been added to the Stendo#400 range of antibacterial boards. These products combine the reassurance of antibacterial properties with the soothing elegance of wood grain. Certified as noncombustible, they offer excellent cost performance and are the perfect choice for a wide range of uses as elegant interior finishing materials in both general and public facilities.

### Standard Specifications

|                          |  |
|--------------------------|--|
| Decorative layer         | Acrylic-urethane resin (antibacterial specification)   |
| Base board used          | Hiluc (0.8 calcium silicate board)   |
| Thickness mm             | 6  |
| Width×Length mm          | 910 × 1820、910 × 2420  |
| Weight kg/m <sup>2</sup> | 5.6  |
| Remarks                  | Decorative side chamfered on all four edges, treated with surface sealer on the reverse side. Single-tone paint applied to edges and chamfered sections. |

※Standard product weights are standard values adjusted for moisture absorption ratios.



### Features

- Fine wood grain finish perfect for creating a calm, soothing ambience
- Suitable for a wide range of interior finishing applications thanks to antibacterial properties
- Not classified as a formaldehyde-emitting construction material-exempt from restrictions
- Calcium silicate base board for superb strength and dimensional stability
- Quick and easy installation using standard tools and a combination of two-sided tape and elastic adhesive-cost performance also excellent
- Certified as noncombustible by the Minister of Land, Infrastructure, Transport and Tourism (NM-3604)

### Uses

- ◆ Interior finishing in shops, showrooms, commercial facilities, geriatric facilities, hospitals, etc.
- ◆ Wherever a calming, elegant interior finish is required in general or public facilities



the SIAA brand mark is borne on products evaluated according to ISO 22196 and they are under quality control and information disclosure by the guidelines of the Society of International sustaining growth for Antimicrobial Articles.

[Target product]  
Stendo#400 wood grain

## 1.0 Decorative Calcium Silicate Boards

# Stendo#500/T/S/MR

(Noncombustible) NM-3455(#500/T/MR)  
NM-3456(#500S)



Kitchen, Villa de Mariages

Noncombustible boards

Noncombustible decorative boards

## Excellent surface performance in indoor areas where hygiene is a priority

The enhanced surface performance characteristics of these sophisticated noncombustible decorative boards makes them ideal for interior finishing in spaces where cleanliness is essential, such as clean rooms. They consist of calcium silicate boards coated with a UV-hardened sealer and finished with coatings designed for various purposes. Basic features include superior smoothness, resistance to chemicals and ease of decontamination. The range also includes antistatic types and MRSA germicidal types, as well as products designed to withstand germicidal lamp rays.

### Standard Specifications

|                 |   |                                    |
|-----------------|---|------------------------------------|
| Base board used | Hiluc M (1.0 calcium silicate board)  |                                    |
| Thickness       | mm  | 6                                  |
| Width × Length  | mm  | 910×1820 (910× 910)                |
|                 |   | 910×2420 (910×2730)<br>(1000×2000) |
| Weight          | kg/m <sup>2</sup>   | 6.9                                |
| Remarks         | Decorative side chamfered on all four edges, treated with surface sealer on the reverse side. |                                    |

※Dimensions shown in ( ) are manufactured to order. Please inquire.

※Standard product weights are standard values adjusted for moisture absorption ratios.

### Features

- Interior decorative boards with superior surface smoothness
- Resistant to chemicals, designed to prevent deterioration resulting from washing or adhesion
- Resistant to dirt adhesion, extremely easy to clean
- Excellent resistance to water—ideal for spaces in which water is used
- Not classed as formaldehyde emitting materials, warning labels not required

|               |  |
|---------------|--|
| Stendo#500    | Standard type  |
| Stendo#500/T  | Antistatic type (resistant to dust adhesion)   |
| Stendo#500/S  | Resistant to discoloration under germicidal lamp rays  |
| Stendo#500/MR | Designed to prevent MRSA (methicillin-resistant staphylococcus aureus) infections in hospitals |

### Uses

- ◆Interior finishing in clean rooms and medical institutions
- ◆Interior walls and ceilings, etc., in general buildings, kitchens and sanitary facilities





## Decorative Autoclave-Cured Cement Boards

# Stendo#300 (Noncombustible) NM-2923



## Dependable products for interior spaces requiring superior strength and water resistance

These products consist of autoclave-cured cement boards finished with a hot-applied urethane resin coating. The smooth surface and rich colors help to create interior spaces that combine comfort with a sense of cleanliness. The base board (Selflex A) provides excellent strength, dimensional stability and water resistance.

### Standard Specifications

| Base board used |                   | Selflex A (autoclave cement board) |            |            |
|-----------------|-------------------|------------------------------------|------------|------------|
| Thickness       | mm                | 4                                  | 5          | (6)        |
| Width × Length  | mm                | 910×1820                           | (910× 910) | (910×2420) |
| Weight          | kg/m <sup>2</sup> | 7.5                                | 9.4        | 11.2       |

※Please inquire about dimensions shown in ( ).

※Standard product weights are standard values adjusted for moisture absorption ratios.

### Features

- Noncombustible interior finishing decorative boards with excellent surface smoothness
- Superior impact resistance compared with other decorative panels
- Ideal for areas in which water is used, excellent water resistance thanks to characteristics of base board
- Sophisticated urethane-based decorative surface—highly resistant to soiling and chemicals
- Contains no formaldehyde—can be used with confidence as a product not covered by VOC regulations

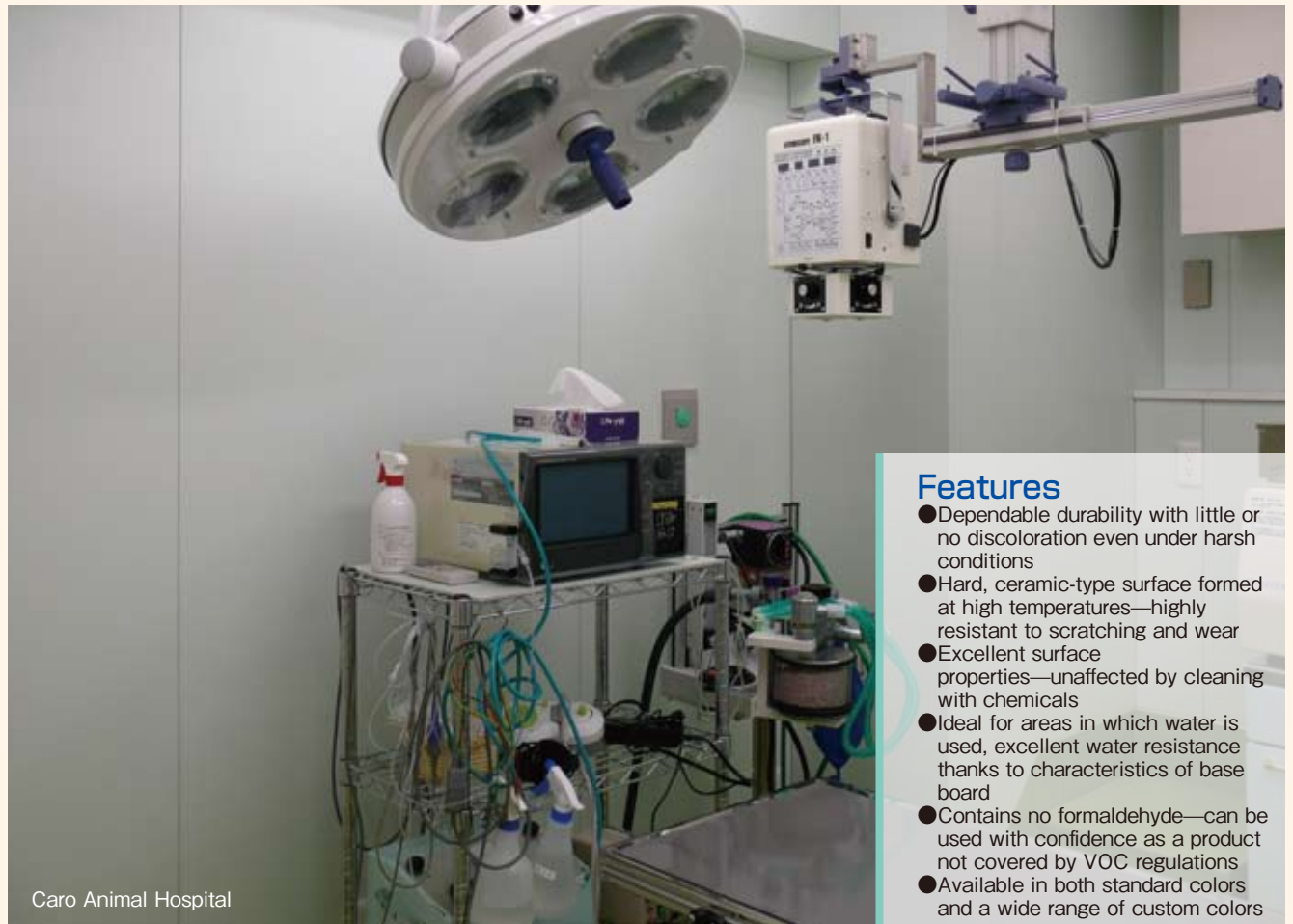
### Uses

- ◆ Interior finishing in commercial buildings, factories, warehouses, etc.
- ◆ Interior walls and ceilings in station buildings, public facilities, etc.
- ◆ Suitable for a wide range of uses in kitchens and sanitary facilities, etc.



## Inorganic Autoclave-Cured Decorative Cement Boards

# Stendo#1000 (Noncombustible) NM-3347



Caro Animal Hospital

### Features

- Dependable durability with little or no discoloration even under harsh conditions
- Hard, ceramic-type surface formed at high temperatures—highly resistant to scratching and wear
- Excellent surface properties—unaffected by cleaning with chemicals
- Ideal for areas in which water is used, excellent water resistance thanks to characteristics of base board
- Contains no formaldehyde—can be used with confidence as a product not covered by VOC regulations
- Available in both standard colors and a wide range of custom colors

### Uses

- ◆ Interior finishing and exterior soffits in transportation facilities
- ◆ Interior finishing in clean halls, operating theaters, toilets and other areas in hospitals
- ◆ Clean room interiors in laboratories, precision manufacturing facilities, chemical and food plants
- ◆ Toilet interiors and booths in commercial buildings and schools, etc.

## Create superb spaces with these soft-toned, rigid decorative boards

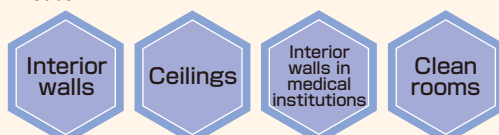
These high-quality ceramic-type noncombustible decorative boards consist of autoclave-cured boards with a baked-on inorganic coating. Their soothing matt colors and high-quality finish make these the ideal decorative boards for interior finishing in buildings where design quality and functionality are essential.

### Standard Specifications

| Base board used |                   | Selflex A (autoclave cement board) |
|-----------------|-------------------|------------------------------------|
| Thickness       | mm                | 5                                  |
| Width × Length  | mm                | 910×1820 (910× 910)                |
|                 |                   | 910×2420 (910×2730)<br>(1210×2420) |
| Weight          | kg/m <sup>2</sup> | 9.4                                |

※Dimensions shown in ( ) are manufactured to order. Please inquire.

※Standard product weights are standard values adjusted for moisture absorption ratios.



### Standard colors



※Please note that actual colors may differ from those shown here because of the limitations of the printing process.

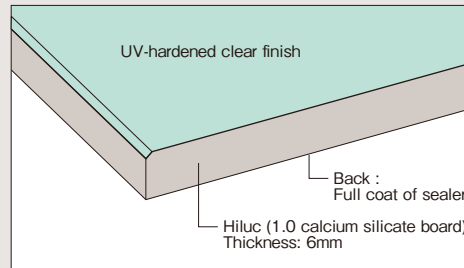
# Cera-Art Series

Refined decorative finishes and textures to suit a variety of designs

## Overview

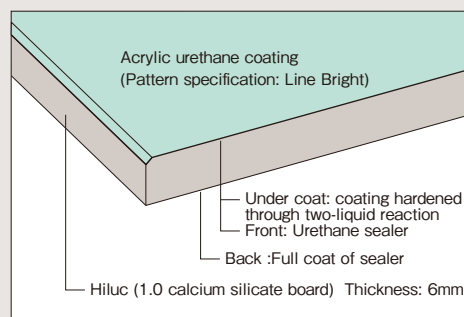
### ◆Cera-Art Ecoshiny S

Ornamental decorative calcium silicate boards  
Mirror type with UV hardened clear finish  
Resistant to soiling, easy to clean



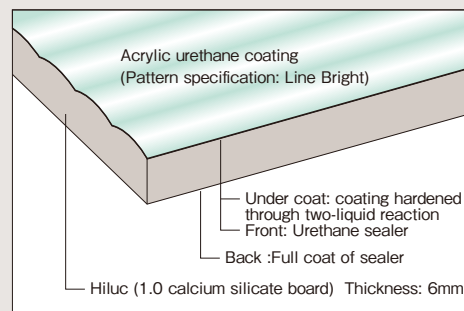
### ◆Cera-Art Bright

Artistic finishes for the individualists  
Formaldehyde-free—not subject to VOC regulations  
Dependable surface hardness to resist scratching



### ◆Cera-Art Linebright

Artistic finishes for the individualists  
Formaldehyde-free—not subject to VOC regulations  
Dependable surface hardness to resist scratching



## Main uses

| Item                | General interior finishing | Kitchens | Toilets |
|---------------------|----------------------------|----------|---------|
| Cera-Art Ecoshiny S | ○                          | ○        | ○       |
| Cera-Art Bright     | ○                          |          | ○       |
| Cera-Art Linebright | ○                          |          | ○       |

※Not suitable for locations subject to high temperatures and humidity, such as bathrooms.

## Ornamental Decorative Calcium Silicate Boards (Mirrored Type)

# Cera-Art Ecoshiny S (Noncombustible) NM-3430

Noncombustible boards

Noncombustible decorative boards



Passageway in front of Smark Hall, (Isesaki City, Gunma Prefecture)

### Features

- New mirrored type
- Dirt-resistant and easy to clean, thanks to special surface finish
- Large boards ideal for creating wide, beautiful surfaces with minimal joins
- Not classed as formaldehyde emitting materials, warning labels not required
- Excellent strength and dimensional stability thanks to characteristics of calcium silicate base product
- Easy to process with standard tools. Suitable for quick installation using double-sided adhesive tape and elastic adhesive

### Uses

- ◆ Shops, showrooms, commercial facilities, facilities for the aged, hospitals, etc.
- ◆ General interior finishing in kitchens, wash rooms, entrance halls, utility areas, etc.

## Design variations for enhanced wall finishes

Special finishing processes have been used to create products that turn flat surfaces into highly original design statements while also resisting dirt to provide a maintenance-free environment.

These brightly mirrored products are ideal for a variety of spaces.

### Standard Specifications

|                   |  |
|-------------------|--|
| Base board used   | Hiluc M<br>(1.0 calcium silicate board)                              |
| Decoration method | Clear finish using special UV-hardened resin coating (mirrored type) |
| Thickness         | mm 6   |
| Width × Length    | mm 910×1820<br>910×2420  |
| Weight            | kg/m <sup>2</sup> 6.9  |

※Standard product weights are standard values adjusted for moisture absorption ratios.

### Standard Patterns



※Please note that actual colors may differ from those shown here because of the limitations of the printing process.





## Ornamental Decorative Calcium Silicate Boards

# Cera-Art Bright (Noncombustible) NM-3348



### Features

- Noncombustible decorative boards with embossed surface finish
- Robust coating—easy to clean, resistant to detergents
- Tough, dependable surface—less prone to scratching than gypsum board
- Easy to process using standard tools, such as cutters and files
- More resistant to water than gypsum board—suitable for areas in which water is used
- Not classed as formaldehyde emitting materials, warning labels not required

### Uses

- ◆ Excellent reputation as material for use in commercial and transportation facilities, such as shops, showrooms and concourses
- ◆ Interior finishing in wash rooms, entrance halls, utility areas, etc.

## Sophisticated Blending of Design Originality and Functionality

These interior boards have decorative surfaces coated with acrylic-urethane resin for stylishly refined finishes that combine strength with gentleness.

### Standard Specifications

|                          |                                    |
|--------------------------|------------------------------------|
| Base board used          | Hiluc M(1.0calcium silicate board) |
| Decoration method        | Acrylic urethane resin coating     |
| Thickness mm             | 6                                  |
| Width × Length mm        | 910 × 1820、910 × 2420              |
| Weight kg/m <sup>2</sup> | 6.9                                |

※Standard product weights are standard values adjusted for moisture absorption ratios.

### Standard Colors/Patterns



※Please note that actual colors may differ from those shown here because of the limitations of the printing process.

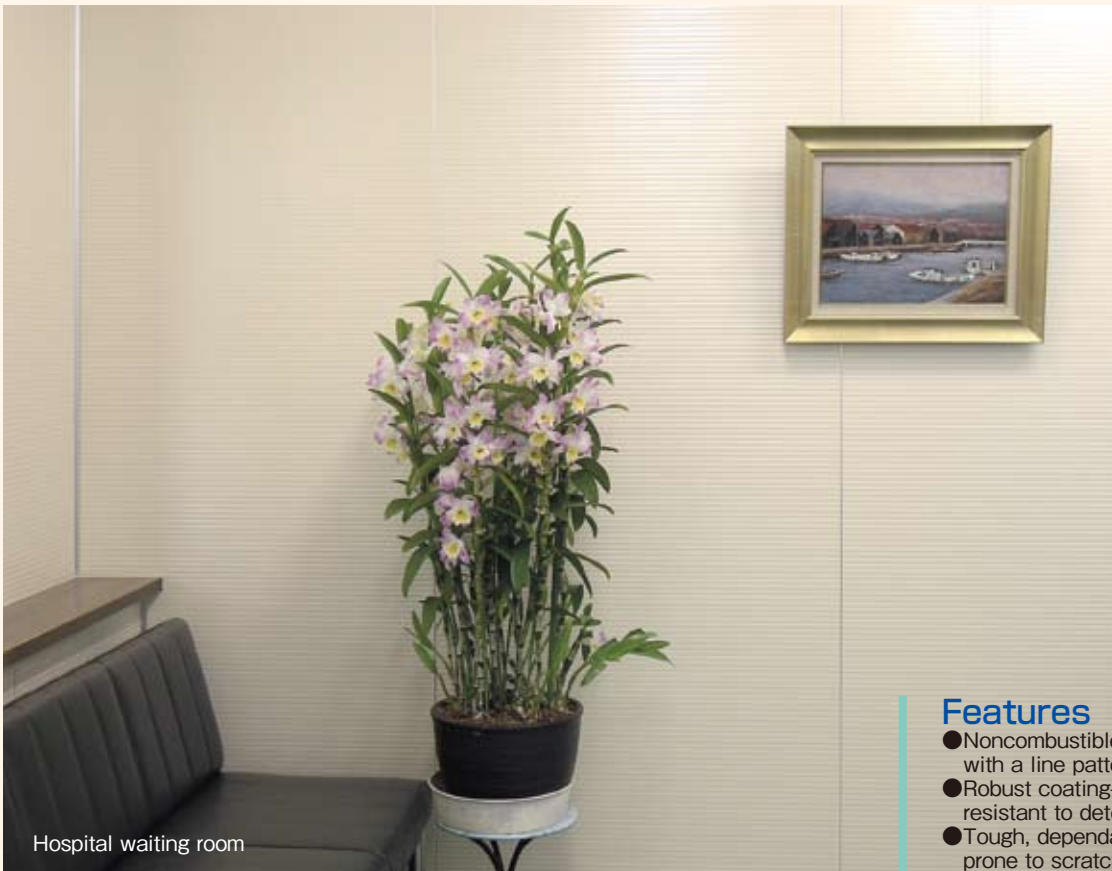


Ornamental Decorative Calcium Silicate Boards with Embossed Stripes

# Cera-Art Linebright (Noncombustible) NM-3348

Noncombustible boards

Noncombustible decorative boards



Hospital waiting room

## Features

- Noncombustible decorative boards with a line pattern on the surface
- Robust coating—easy to clean, resistant to detergents
- Tough, dependable surface—less prone to scratching than gypsum board
- Easy to process using standard tools, such as cutters and files
- More resistant to water than gypsum board—suitable for areas in which water is used
- Not classed as formaldehyde emitting materials, warning labels not required

## Uses

- ◆ Interior finishing in wash rooms, entrance halls, utility areas, etc.
- ◆ Excellent reputation as material for use in commercial and transportation facilities, such as shops, showrooms and concourses

## These uniquely impressive products bring an enhanced ambience of quality to any space

The line pattern on the surface creates a unique impression of softness and quality.

This product is ideal for a wide range of original design concepts, including traditional Japanese and modern themes.

## Standard Specifications

|                          |                                    |
|--------------------------|------------------------------------|
| Base board used          | Hiluc M(1.0calcium silicate board) |
| Decoration method        | Acrylic urethane resin coating     |
| Thickness mm             | 6                                  |
| Width × Length mm        | 910×1820、910×2420                  |
| Weight kg/m <sup>2</sup> | 6.9                                |

※Standard product weights are standard values adjusted for moisture absorption ratios.



## Standard Colors/Patterns



※In the photograph, the product is shown with the long side upright.  
 ※Please note that actual colors may differ from those shown here because of the limitations of the printing process.

# Surface Performance of Decorative Boards

## Stendo Series

### Performance of decorative surfaces

| Test Item                                      | #400             | #500                        | #500T                    | #500S            | #500MR           | #300             | #1000            | Test Method   |
|--|------------------|-----------------------------|--------------------------|------------------|------------------|------------------|------------------|---|
| Coating adhesion                               | 16/16            | 16/16                       | 16/16                    | 16/16            | 16/16            | 16/16            | 16/16            | Sellotape removal                                       |
| Surface hardness                               | 2H               | 2H                          | 3H                       | 3H               | 3H               | 3H               | 5H               | Pencil hardness   |
| Soiling resistance                             | No discoloration | No discoloration            | No discoloration         | No discoloration | No discoloration | No discoloration | No discoloration | Red crayon wiped off after 24 hours                     |
| Electrostatic properties (surface resistance)  | —                | $9.1 \times 10^{15} \Omega$ | $1.6 \times 10^6 \Omega$ | —                | —                | —                | —                | JIS K 6911  |
| Germicidal lamp rays (gloss maintenance ratio) | —                | 28%                         | —                        | 87%              | —                | —                | —                | Exposure to 20x germicidal lamp at 15cm for 1,500 hours |

### Chemical Resistance

| Chemical                         | Concentration | #400 | #500 | #500T | #500S | #500MR | #300 | #1000 |
|----------------------------------|---------------|------|------|-------|-------|--------|------|-------|
| Hydrochloric acid                | 5%            | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Nitric acid                      | 5%            | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Acetic acid                      | 5%            | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Caustic soda                     | 5%            | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Methyl ethyl ketone              | Undiluted     | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Toluene                          | Undiluted     | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Butyl acetate                    | Undiluted     | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| White kerosene                   | Undiluted     | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Sodium hypochlorite (antiformin) | Undiluted     | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Benzalkonium chloride (Osvan)    | 0.2%          | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Official phenol                  | 5%            | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Chlorhexidine (Hibiden)          | 0.02%         | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Ethyl alcohol                    | Undiluted     | ○    | ○    | ○     | ○     | ○      | ○    | ○     |

Substances were spot dripped, left for 24 hours, and cleaned off with a neutral detergent, and the effects were observed.  
 ■Standard levels / ○:No soiling ○:Slight soiling (Use ethanol for soiling that cannot be removed by wiping.)

### Contamination Resistance

| Contaminant                 | #400 | #500 | #500T | #500S | #500MR | #300 | #1000 |
|-----------------------------|------|------|-------|-------|--------|------|-------|
| Vegetable oil (tempura oil) | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Soy sauce                   | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Worcester sauce             | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Coffee                      | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Tea                         | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Salt water                  | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Nicotine resin              | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Crayon                      | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Shoe polish                 | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Pencil                      | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Ink                         | ○    | ○    | ○     | ○     | ○      | ○    | ○     |
| Magic marker ink            | ○    | ○    | ○     | ○     | ○      | ○    | ○     |

Substances were spot dripped, left for 24 hours, and cleaned off with a neutral detergent, and the effects were observed.  
 ■Standard levels / ○:No marking ○:Slight marking (Use ethanol for soiling that cannot be removed by wiping.)

## Cera-Art Series

### Coating Performance

| Test Item                | Test Method                              | Ecoshiny S          | Bright              |
|--------------------------|--|---------------------|---------------------|
| Coat adhesion            | Sellotape removal                        | 16/16               | 16/16               |
| Surface hardness         | Pencil hardness                          | 2H                  | 3H                  |
| Water resistance         | Immersion for 7 days at room temperature | No abnormality      | No abnormality      |
| Wear resistance          | JIS A 5423                               | Compliant           | Compliant           |
| Contamination resistance | Red crayon for 24 hours                  | No marking          | No marking          |
| Ease of decontamination  | Vegetable oil                            | ○                   | ○                   |
|                          | Soy sauce                                | ○                   | ○                   |
|                          | Nicotine resin                           | ○                   | ○                   |
|                          | Oil wax                                  | ○                   | ○                   |
|                          | Magic marker ink                         | ○                   | ○                   |
|                          | Ink                                      | ○                   | ○                   |
|                          | Vinegar                                  | ○                   | ○                   |
|                          | Magiclean                                | ○                   | ○                   |
|                          | Sunpole                                  | ○                   | ○                   |
| Resistance to chemicals  | Hydrochloric acid (5%)                   | ○                   | ○                   |
|                          | Nitric acid (5%)                         | ○                   | ○                   |
|                          | Acetic acid (5%)                         | ○                   | ○                   |
|                          | Caustic soda (5%)                        | ○                   | ○                   |
|                          | Methyl ethyl ketone                      | ○                   | ○                   |
|                          | Ethyl alcohol                            | ○                   | ○                   |
|                          | Cockroach S                              | ○                   | ○                   |
|                          | Paibenika                                | ○                   | ○                   |
|                          | Kabi Killer                              | ○                   | ○                   |
|                          | Sodium carbonate (1%)                    | ○                   | ○                   |
| Heat resistance          | 3 hours at 140°C                         | $\Delta E \leq 3.0$ | $\Delta E \leq 3.0$ |
| Light resistance         | JIS K 5600 (100 hrs under carbon arc)    | $\Delta E \leq 3.0$ | $\Delta E \leq 3.0$ |

Substances were spot dripped, left for 24 hours, and cleaned off with a neutral detergent, and the effects were observed.  
 ■Standard levels / ○:No marking ○:Slight marking (Use ethanol for soiling that cannot be removed by wiping.)





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● **Important Information about the Contents of this Catalog**

- ※ Numerical data included in this catalog are averages and are not intended to represent guarantees.
- ※ Mass figures are based on standard weights and may vary within the range of board thickness tolerances, moisture content and other factors.
- ※ Color samples may differ from the colors of actual products because of the limitations in the printing process.



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