

***KMEW***

**HIGH QUALITY  
FAÇADE PANELS**



**JAPAN**



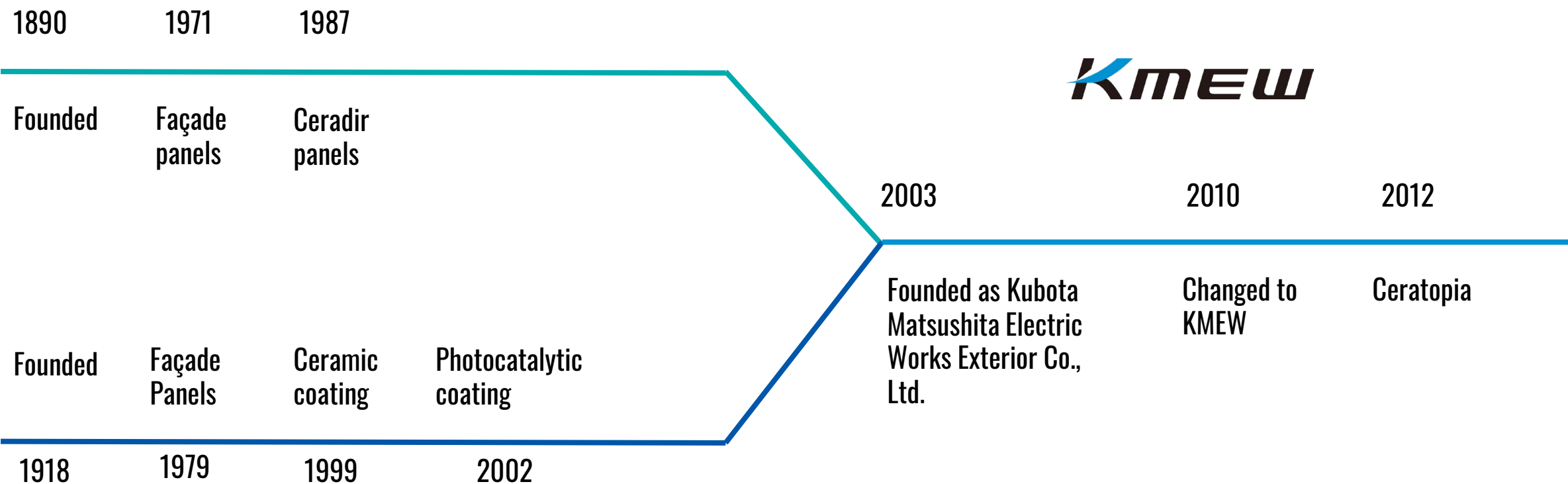
# **FIBER CEMENT-BASED PHOTOCERAMIC COATED PANELS**

**Panasonic**  
\*Matsushita Electric

***KMEW***  
Since 2003

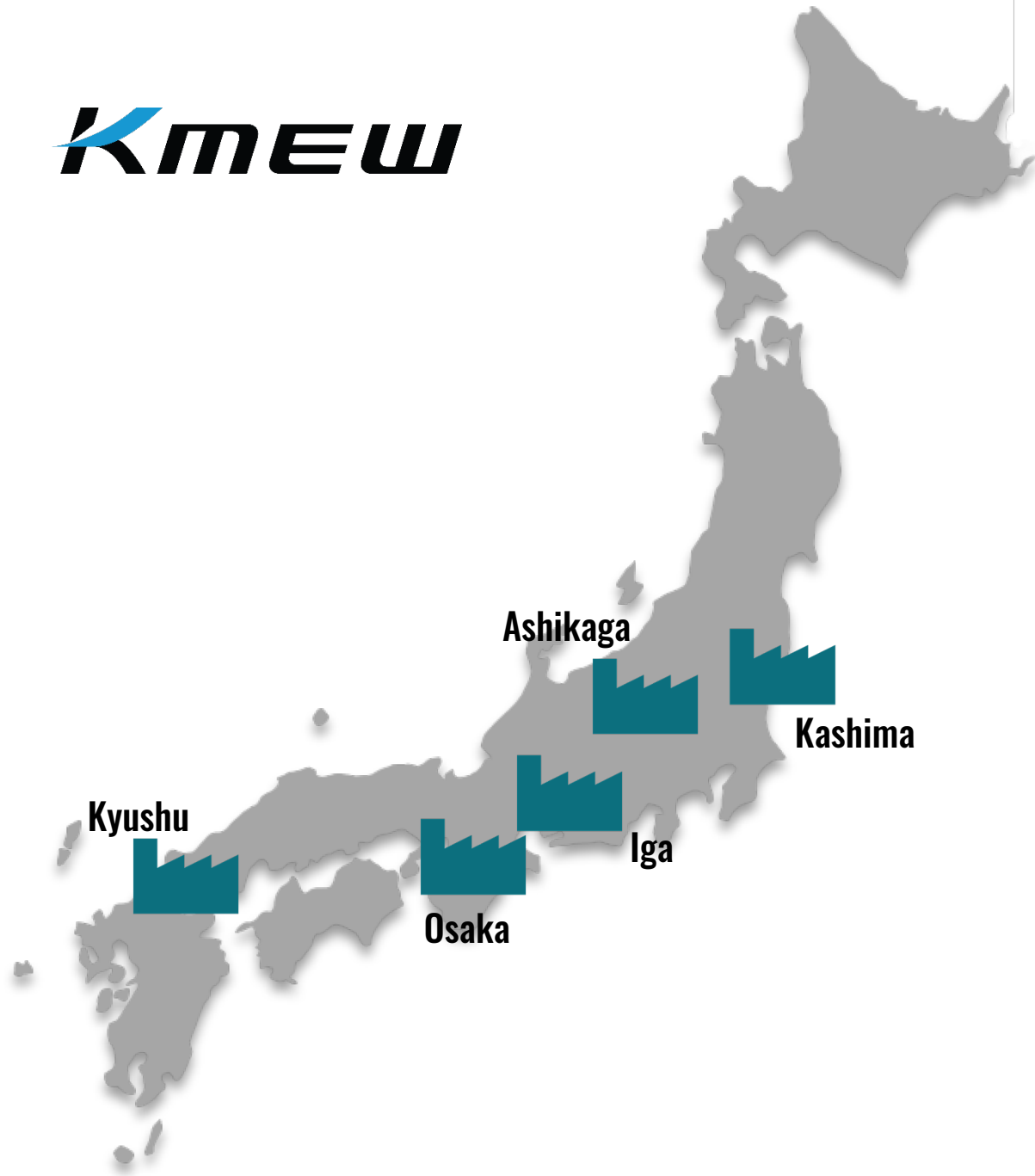
**Kubota®**

**Kubota**



**Panasonic**

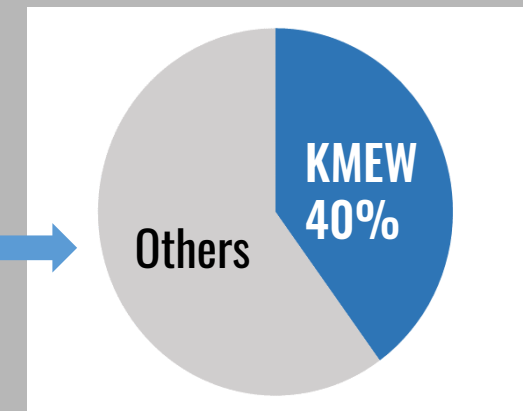
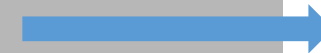
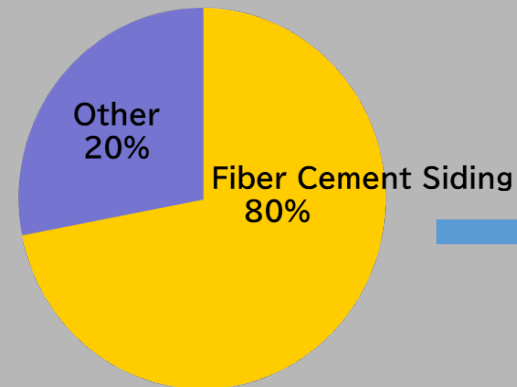
\*Matsushita Electric



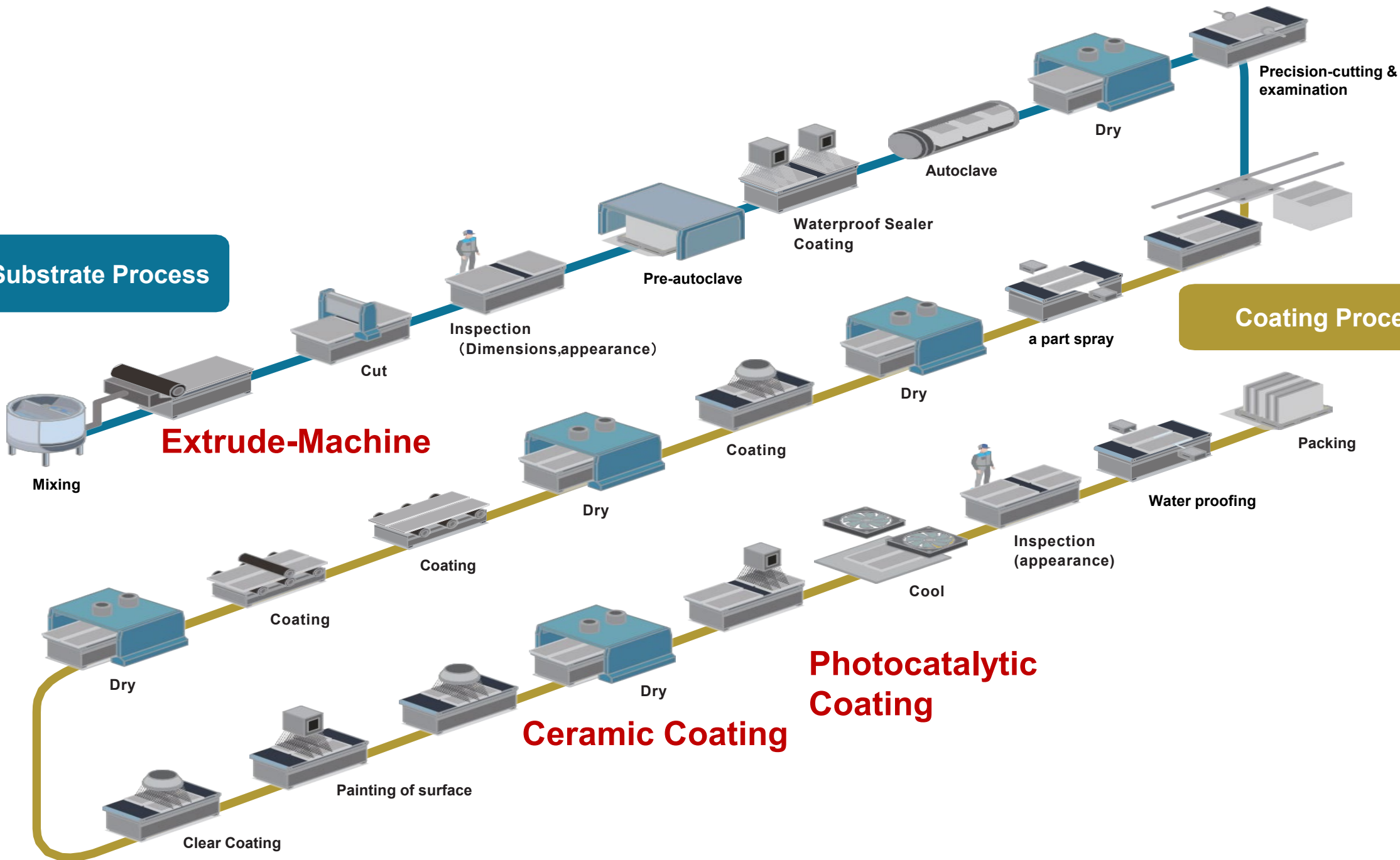
**5 factories to produce Fiber-cement  
façade panels**

**Sales volume : 40 million m2/year**

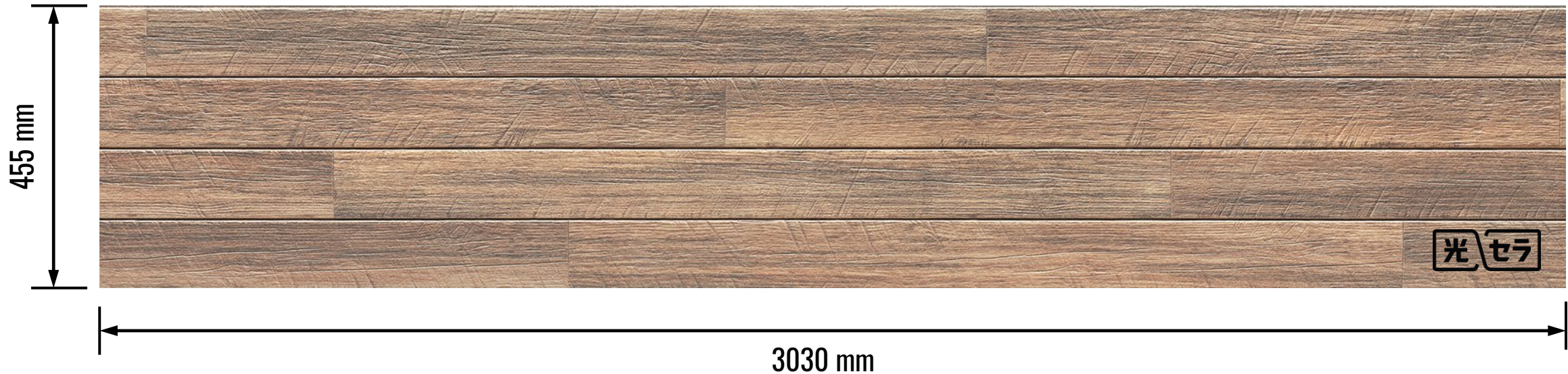
Cladding materials in new housing  
single family construction



## Substrate Process



# PANEL SPECIFICATION



|              |                          |
|--------------|--------------------------|
| Thickness    | 16 mm                    |
| Weight       | 24.0 kg/pc. (17.5 kg/m2) |
| Coverage     | 1.378 m2                 |
| Fire Rating  | A2, s1-d0                |
| Coating type | Photoceramic             |

# EXCLUSIVE PHOTOCERAMIC COATING

## TRIPLE COATING TECHNOLOGY

### 1. COLOUR LAYER

Factory finished inorganic coating

### 2. CERAMIC COATING LAYER

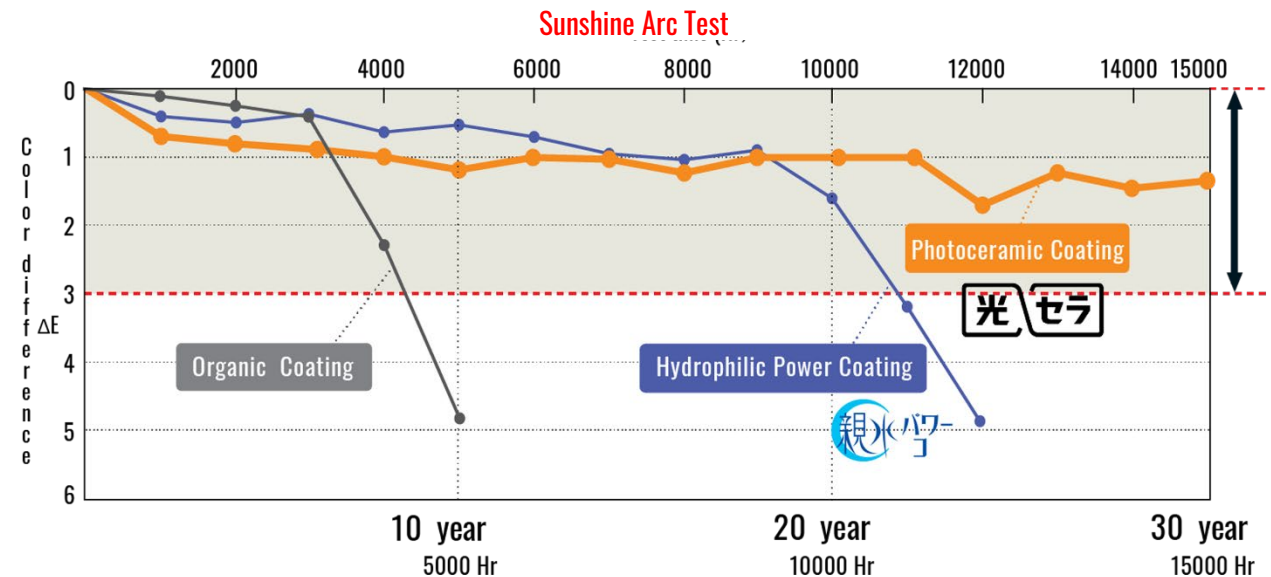
Excellent UV blocking properties

### 3. PHOTOCATALYTIC COATING LAYER

Self-cleaning, Air purifying, Anti-virus and Anti-bacteria

## CERAMIC COATING LAYER

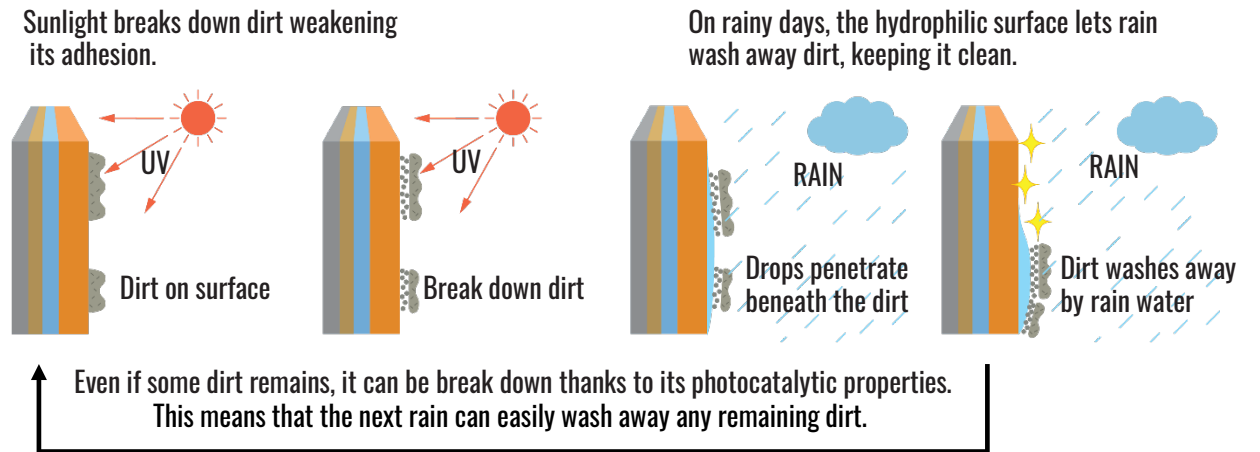
KMEW's inorganic ceramic coating has excellent UV blocking properties to protect the colour layer from ultraviolet rays and minimize fading of the outer wall. Maintenance costs are reduced by virtually eliminating the need for repainting. This technology is exclusive to KMEW.



## PHOTOCATALYTIC COATING LAYER

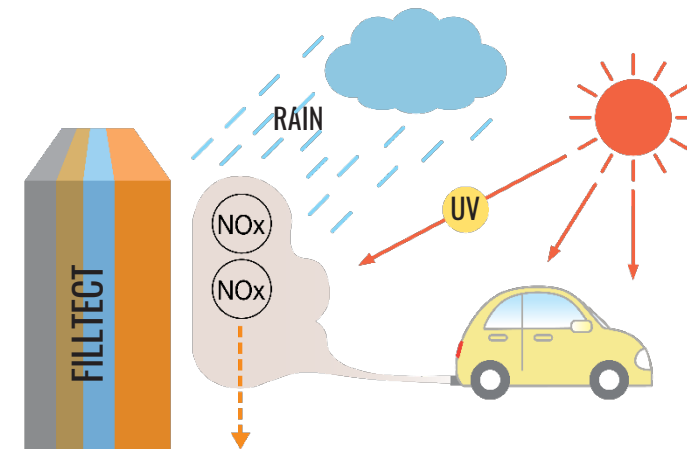
KMEW's inorganic ceramic coating has excellent UV blocking properties to protect the colour layer from ultraviolet rays and minimize fading of the outer wall. Maintenance costs are reduced by virtually eliminating the need for repainting.

This technology is exclusive to KMEW.



## EXTREMELY ECO-FRIENDLY

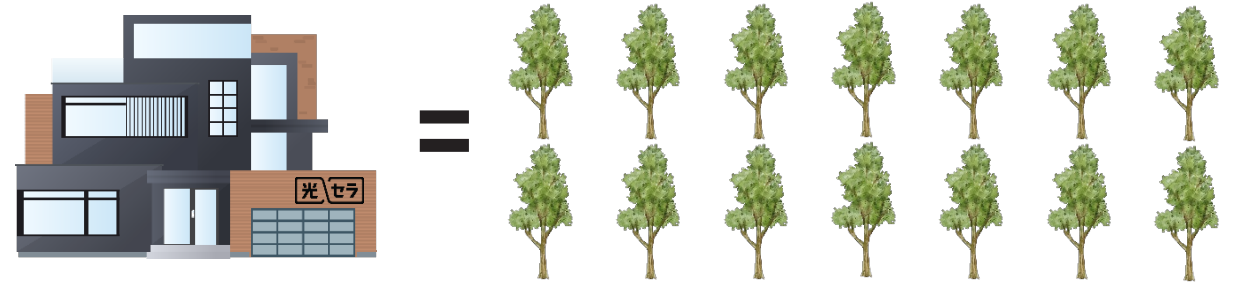
The PHOTOCATALYTIC coating decomposes car exhaust and other pollutants in the air ( $\text{NO}_x$  and  $\text{SO}_x$ ) and turns them into  $\text{NO}_3$  harmless polyatomic ions leaving the air cleaner.



## AIR PURIFYING

Plants purify pollutants such as NO<sub>x</sub> (nitrogen oxides) contained in car exhaust. The poplar tree is one of the plants that absorbs the most NO<sub>x</sub>.

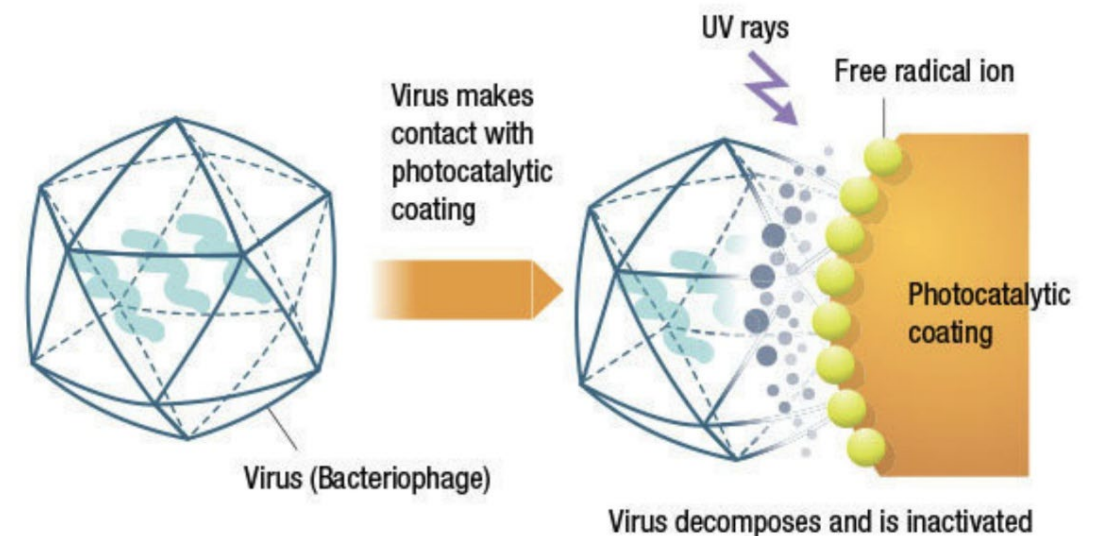
The air purifying properties of the PHOTOCATALYTIC coating for a 200 m<sup>2</sup> building is equal to planting 14 poplar trees.



## ANTI-VIRUS + ANTI-BACTERIA

The photocatalytic coating will inactivate viruses and bacteria on the outer wall surface.

When the photocatalytic coating is exposed to sunlight (UV rays), the free radical ions generated from the photocatalyst decompose viruses and bacteria on the surface.

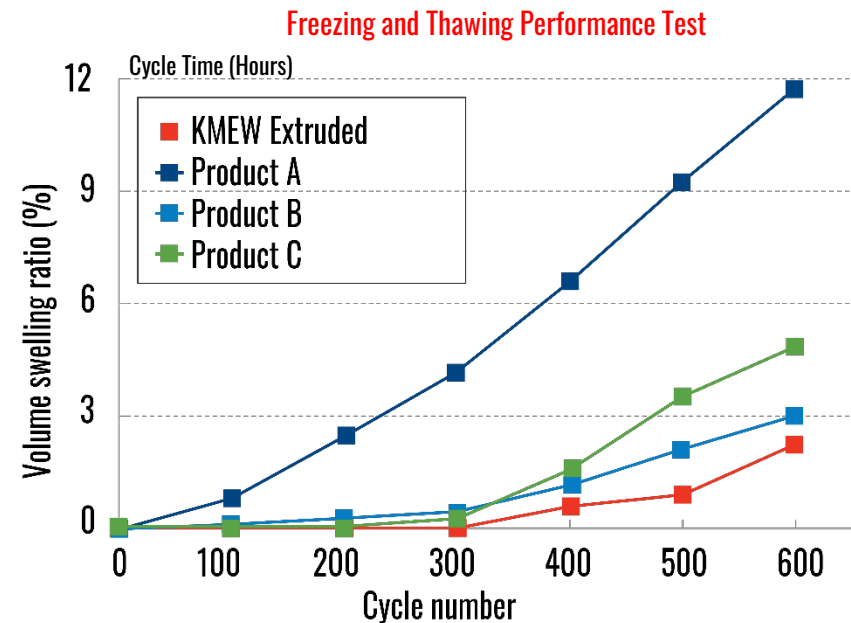


## EXCELLENT RESISTANCE TO FREEZE / THAW CYCLING

When moisture contained inside the base material freezes, it expands and can cause frost damage. Manufactured with an extrusion process, KMEW panels have a large number of fine independent voids inside the base material. This absorbs and relieves the pressure due to volume expansion caused by moisture freezing. KMEW extruded has a volume swelling rate of approximately 2% even after 600 cycles.

## EXCEPTIONAL DIMENSIONAL STABILITY

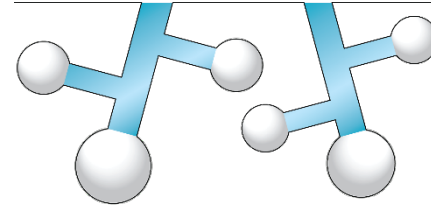
All KMEW panels are cured in an autoclave to produce excellent dimensional stability. Other cement panel products can take several years to fully cure, with a risk of warping of the base material over time. KMEW panels are subjected to high pressure and temperatures to accelerate curing. The maximum amount of expansion and contraction after 400 days is  $\pm 1.1\text{mm}$  or 0.05%.



Panels are cured in an autoclave to maximize dimensional stability

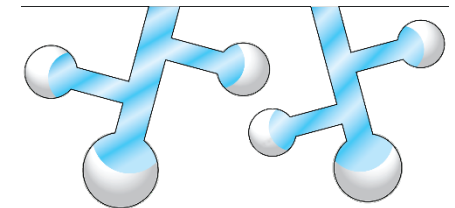
## INNOVATIVE PANEL CORE

FILLTECT™ use an extrusion process that creates numerous micro-scale, independent voids throughout the material. These micro-voids act to absorb and lessen the pressure caused by the expansion of moisture upon freezing, enhancing durability against frost damage.



The material contains numerous, variably sized independent air voids that prevent water ingress under typical conditions.

Water occupies part of a void.



The extruded ice moves into the independent air voids, allowing pressure to be lessened.

The independent voids lessen the freeze-thaw pressure.

## NOISE BARRIER EFFECT

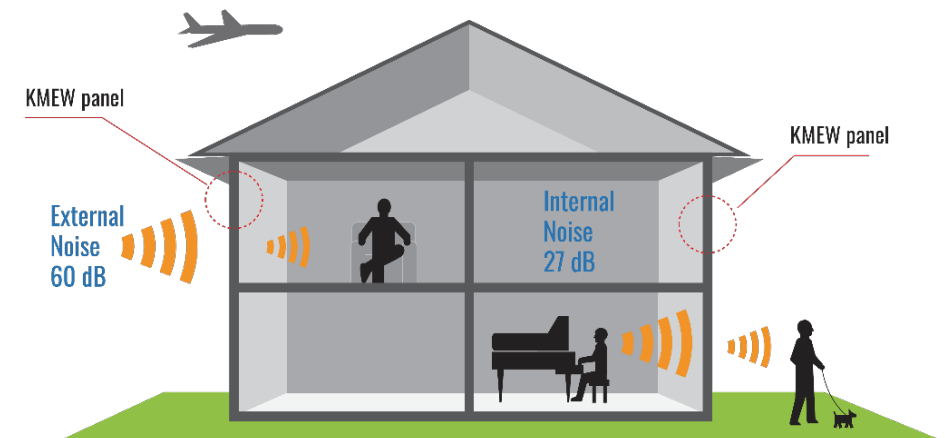
Outer walls covered with CERACLAD provide excellent protection from sound in the range of 250 to 1000 Hz where the human ear is most sensitive.

### Sound Attenuation:

33 dB at 1000 Hz

29 dB at 500 Hz

### NOISE BARRIER PROPERTIES





# GREEN MATERIAL

## GREEN MATERIAL

### RECYCLED MATERIALS

Consisting of approximately 45% recycled material, the panels are 100% recyclable, factory finished with no VOC, and contain no asbestos. Fly ash and pulp are included as recycled materials, reducing resource consumption during production. .

In our manufacturing process, all discharged water is treated by the latest treatment technologies and recycled as much as possible.



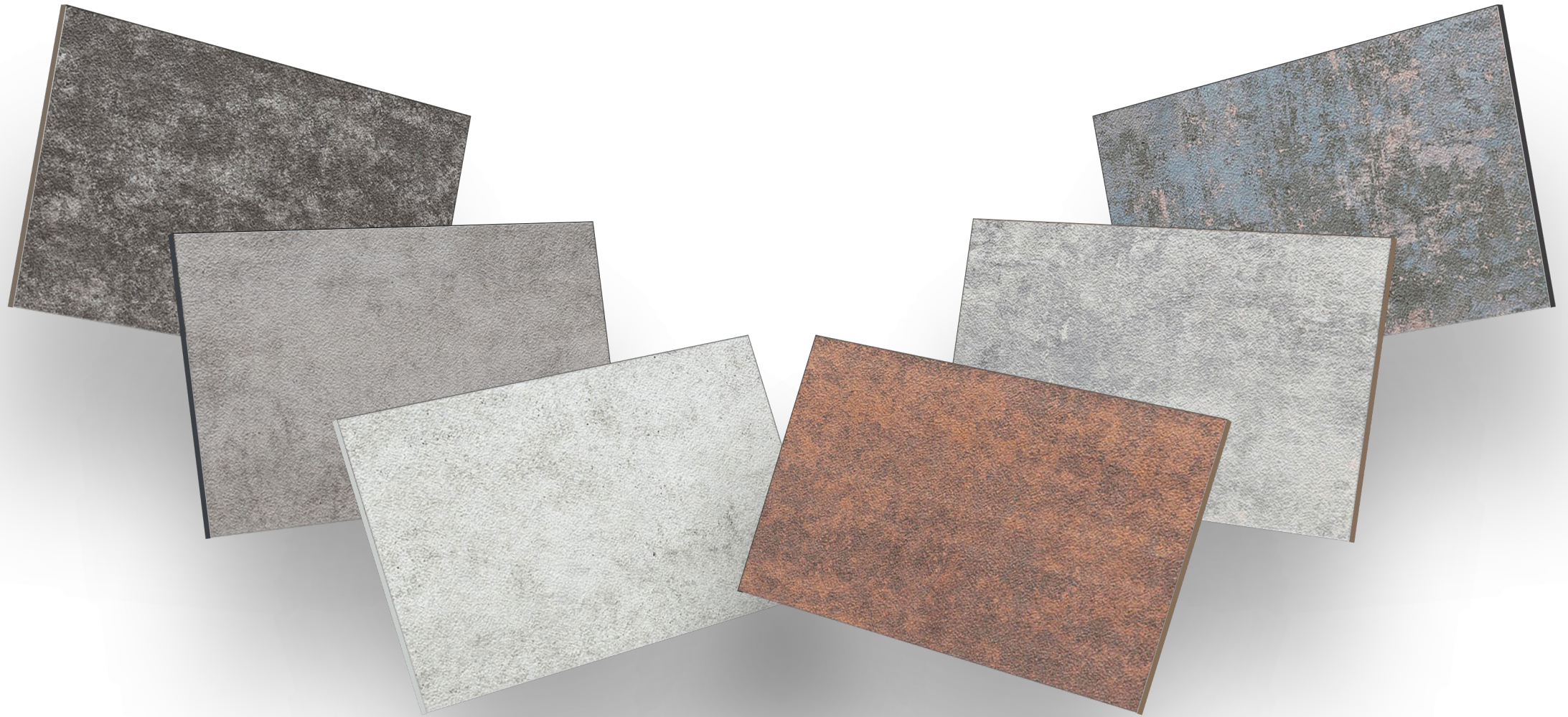
LEED certified projects

HPD (Health Product Declaration) certified material

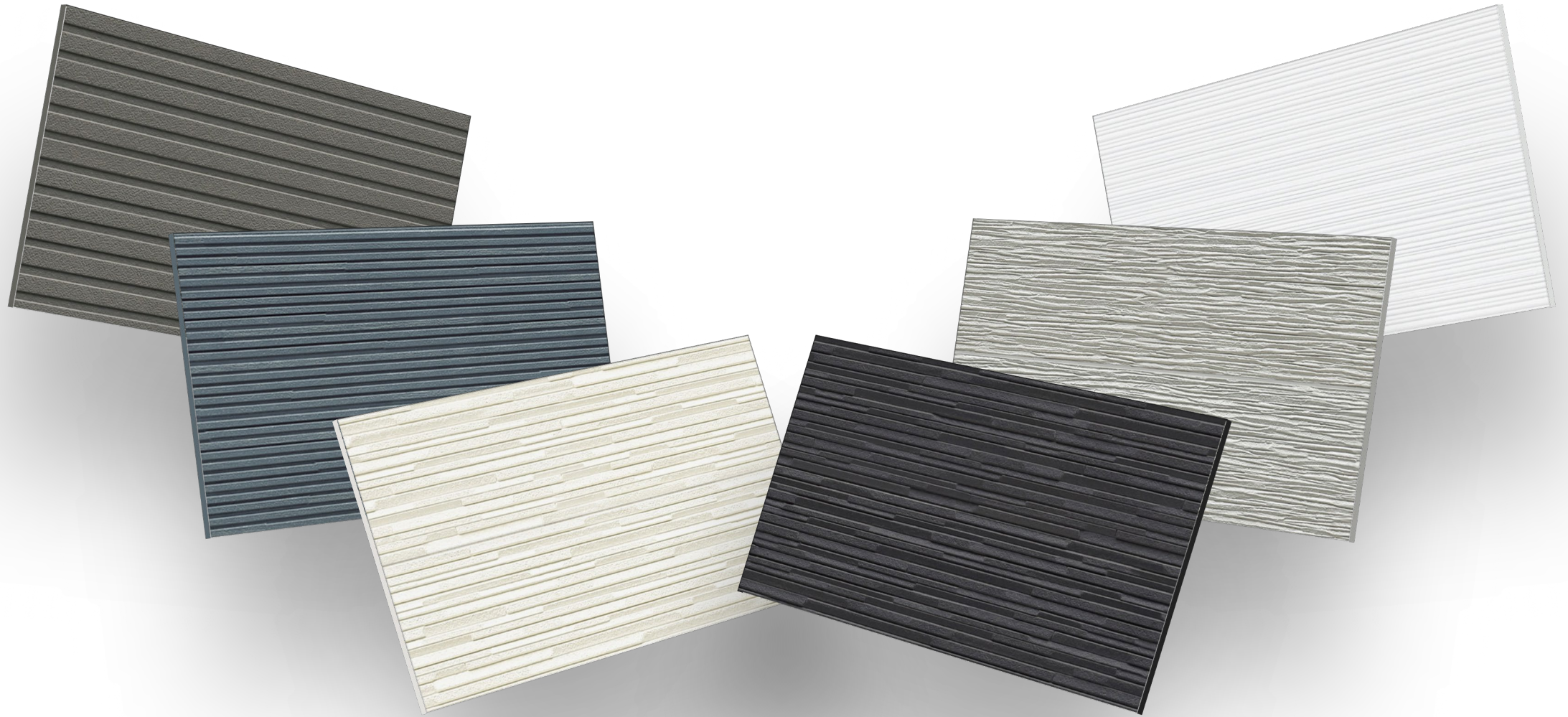
EPD (Environmental Product Declaration) certified material



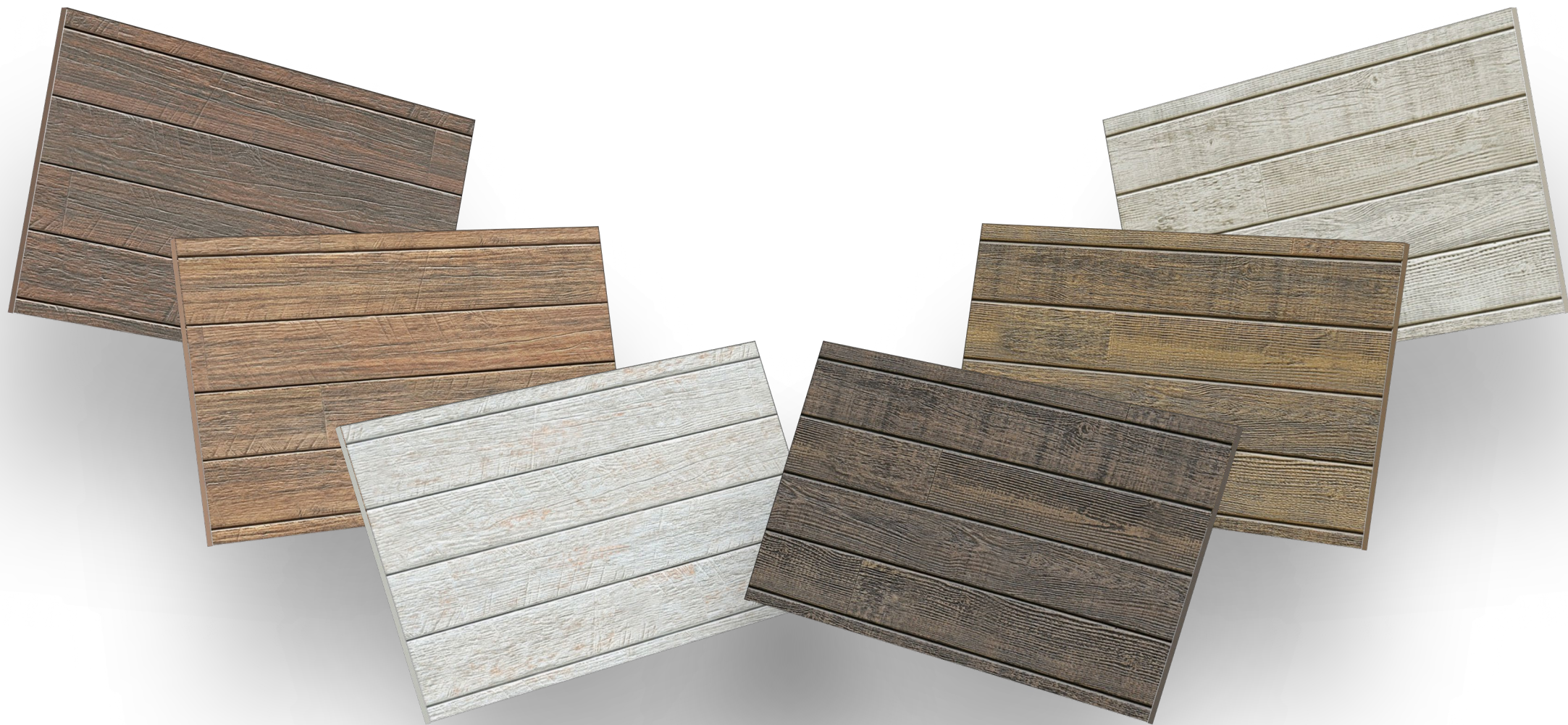
# FLAT DESIGN PANEL



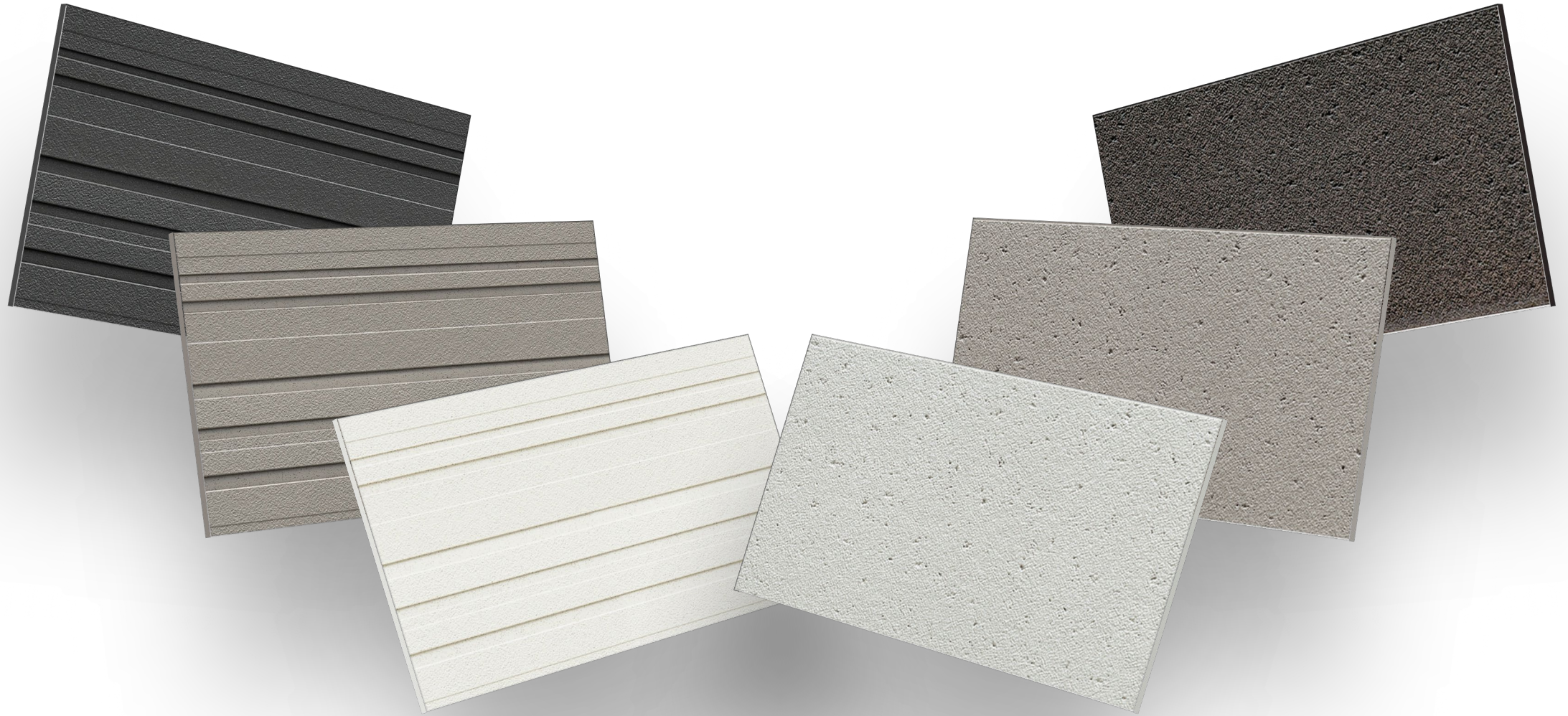
# MODERN STRIPE PANEL



# WOOD DESIGN PANEL



# RIPPLE STRIPE & STUCCO



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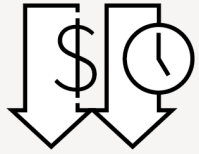
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**JAPAN  
EXCLUSIVE**

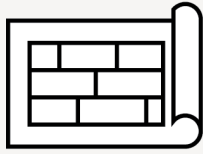
**SHOU SUGI BAN**

# COST EFFECTIVE SYSTEM



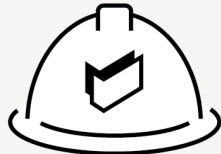
## Cost & Time Saving

- Caulk-free joint option
- All one size
- One price for all panels
- Complete system



## Efficient Installation

- Sequentially stacked shiplap panel with hidden clip fastening
- Integrated rainscreen system
- Field fabrication; shop drawings not required
- Fiber cement blades and cutting guides available to order
- Cut to any size
- No caulking required



## Support & Services

- Free takeoffs and estimating support
- Complete material list provided
- Access to technical team for questions and revisions
- Preconstruction training, remote and selectively on-site
- Detail review
- Complete installation literature and videos



## Warranty

- Triple Coated and Caulkless system provides a low maintenance and long-term durability
- Longlasting quality and beauty



L-Shape Aluminum Joiner  
B3616KF\*

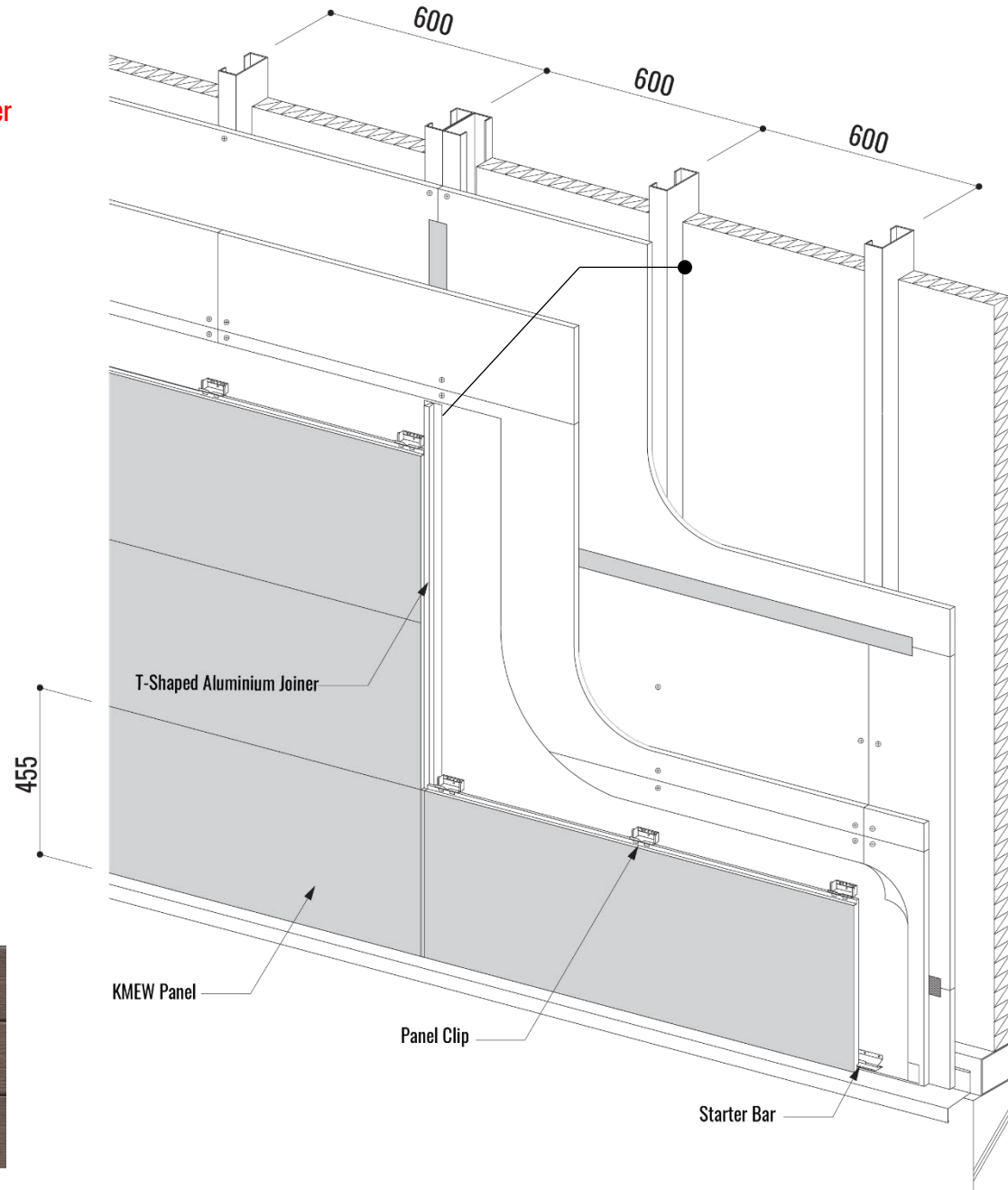


T-Shape Aluminum Joiner  
B3616F\*

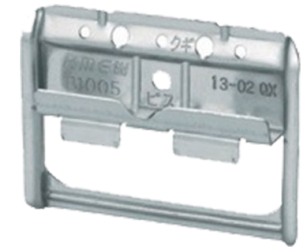


Waterproof Sealer  
LTKBM3103C

KMEW Panel



Panel Clip  
1305

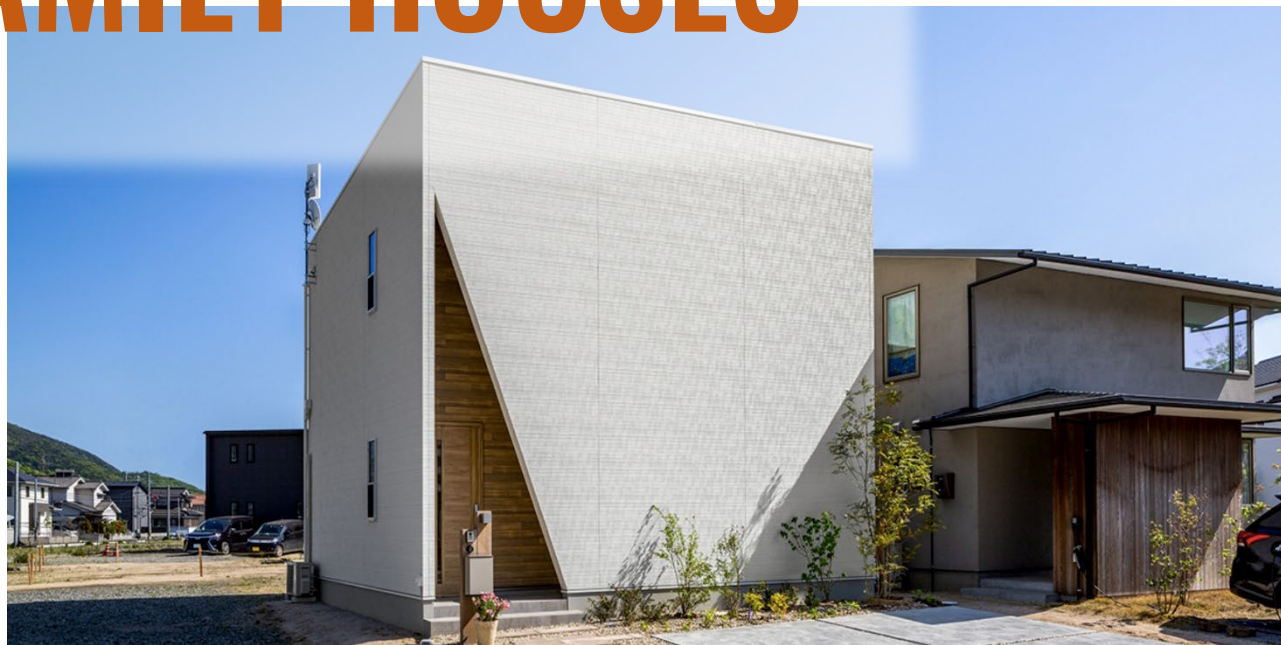


Starter Bar  
B101052





# SINGLE-FAMILY HOUSES





# MULTI-DWELING HOUSES





# APARTMENT BUILDINGS



# COMMERCIAL BUILDINGS



**NIGHT**

**DAY**

# LET'S BUILD TOGETHER

**KMEW**

築きましょう





**TAKK!**  
**THANK YOU!**  
**ARIGATOU!**