

 PANEKO



# Our Commitment to PANECO

At Workstudio, our primary focus has been on the design and production of store display and fixtures. In 2019, we embarked on a new journey to address the significant issue of textile waste. Initially, the path was unclear, and we didn't know what we could create. However, with the invaluable support of our stakeholders over the past three years, we have developed Paneco-a highly transparent and reliable circular material.

As we continue to advance our textile recycling efforts, we remain committed to the following core principles:

## Empathy

Sharing a unified vision

## Collaboration

Leveraging our collective expertise

## Co-Creation

Striving together for a circular society

## Joyful Engagement

Tackling environmental challenges with enthusiasm



Our journey with Paneco is a testament to the power of collaboration and innovation. We are excited to continue this mission and contribute to a sustainable future.

# Key Features of PANECO

## No Need for Material Separation: Any Fiber is OK!

Paneco offers an efficient material recycling method that allows for the production of new materials without the need to separate and sort the collected textile fibers, whether they are natural, synthetic, or blended.

## Aesthetic Appeal: Adorable Yet Recycled

Unlike other ugly boring recycled material, Paneco is an attractive "recycled material". It resembles natural stone but retains the unique warmth of fibers. With over 90% of its content composed of randomly collected wasted clothing, each batch varies in color and pattern, allowing for a wide range of creative expressions.

## Versatility in Processing: Usable Like Wood

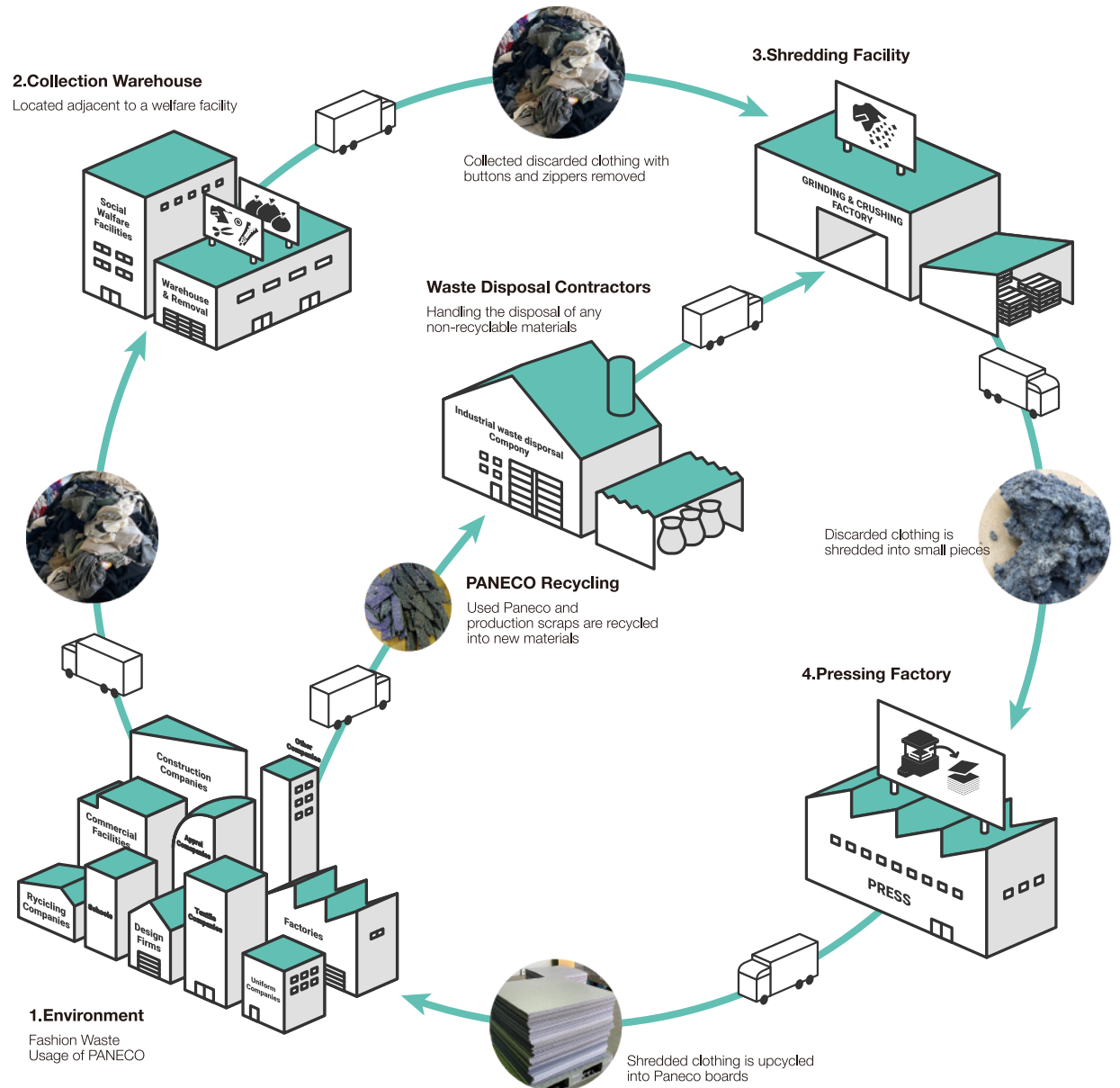
Paneco boasts strength equivalent to particleboard. It can be processed using the same equipment used for woodworking, making it suitable for a variety of products. It can be used as both a finishing and base material.

## Recyclability: Further Recycling of Used PANECO

Paneco is 100% recyclable when in their raw state. Not only do we use recycled materials, but we also have a system in place for recycling used Paneco. If you need to dispose, please contact us.  
\*Note: Collection fees may apply.

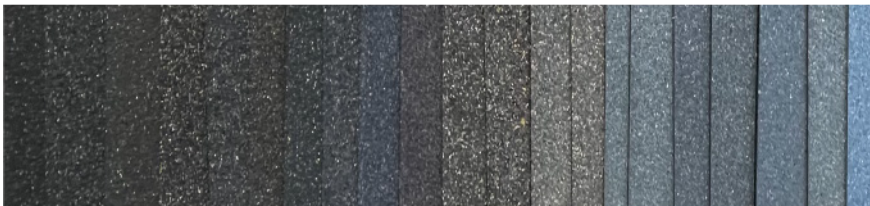
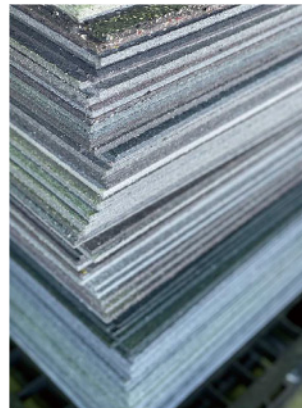
# RECYCLE LOOP

PANECO Production and Recycling Process








## Product Overview (Regular Items)



### Important Product Information & Disclaimer

- Each board's color and appearance will vary significantly due to the mix of fiber materials visible on the surface.
- Returns based on color and appearance differences will not be accepted.
- There may be slight thickness variations in each board.
- The surface of the product may not be perfectly flat and may have slight bumps and warping.
- This product does not have "non-combustible," "semi-non-combustible," or "flame-retardant" properties.
- Certification for "non-combustible," "semi-non-combustible," or "flame-retardant" properties through secondary processing is the responsibility of the purchaser.

### Specifications

<b>Composition Ratio:</b>	Waste Clothing: 90%		
	Binder		
	Wax		
<b>Size</b>	930mm×930mm (effective size:900mm×900mm)		
<b>Thickness</b>	3mm	5.5mm	9mm
<b>Weight(Approximately)</b>	2.1Kg	4Kg	7Kg
<b>Retail Price per Sheet</b>	<b>Please contact distributor.</b> info.moririn-paneco@moririn.co.jp		
<b>Fiber Content per Sheet</b>	 ×11	 ×20	 ×35

Retail price as of July 2023, excluding tax.  
Based on the calculation of one T-shirt weighing 200g.  
9mm thickness is available on a made-to-order basis (minimum order 50 sheets).

### Physical Properties

<b>Density (g/cm<sup>3</sup>)</b>	0.81~0.90
<b>Moisture Content (%)</b>	1~2
<b>Bending Strength (N/mm<sup>2</sup>)</b>	17.7~22.1
<b>Water Absorption Thickness Expansion Rate(%)</b>	0~1
<b>Peel Strength (N/mm<sup>2</sup>)</b>	1.7~2.9
<b>Formaldehyde Emission</b>	Average<0.1 Maximum<0.1

These are reference values obtained from tests conducted by the Building Material Testing Center(t5.5)



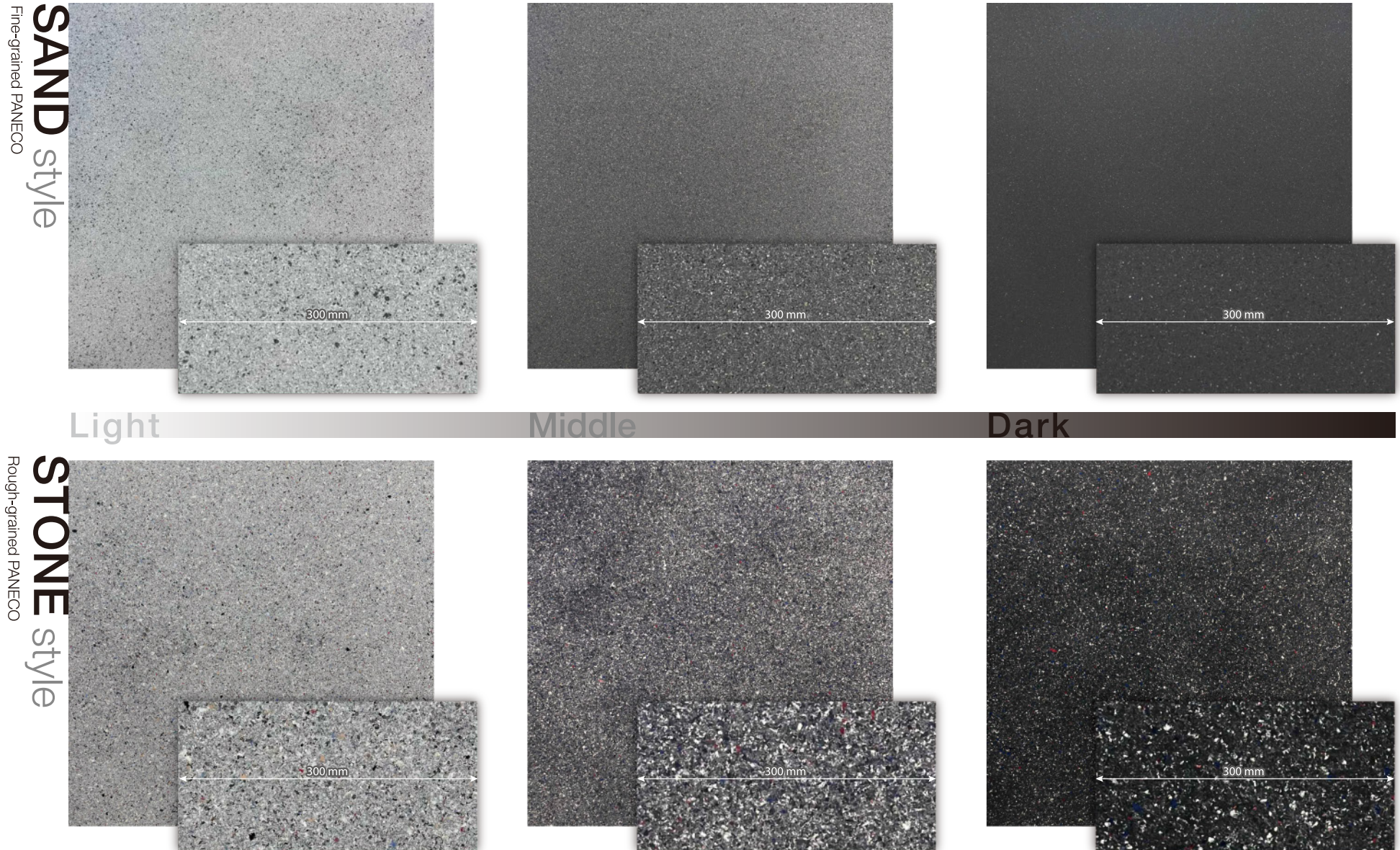
# Product Overview (Regular Items)

## Important Notes:

- \*There may be variations in color, brightness, and texture within each color group due to the materials used.
- \*Returns based on color and appearance differences will not be accepted.
- \*While most boards are generally achromatic, occasionally boards with slight coloration may be produced.
- \*Inventory levels fluctuate, so please check stock availability before placing an order.

## Product Variants

As regular items, we offer three color tones and two particle sizes:





# Special Editions (Limited)

Important Notes:  
\* Due to the use of varied materials, each board's color and texture may vary.  
\* Returns based on color and appearance differences will not be accepted.  
\* Inventory levels fluctuate, so please check stock availability before placing an order.

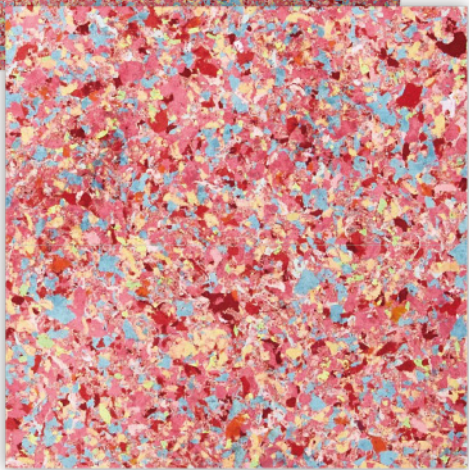
We offer special edition boards featuring vibrant colors, scattered loss flowers, and wood powder for a unique wood-like finish. As these are limited items, please contact our distributors for pricing and availability.

Available Special Editions:

Colorful

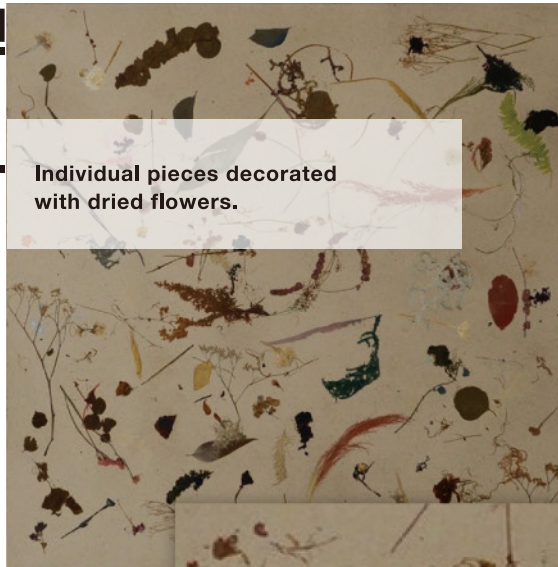


large particles made from carefully selected vibrant materials.



300 mm

Floral

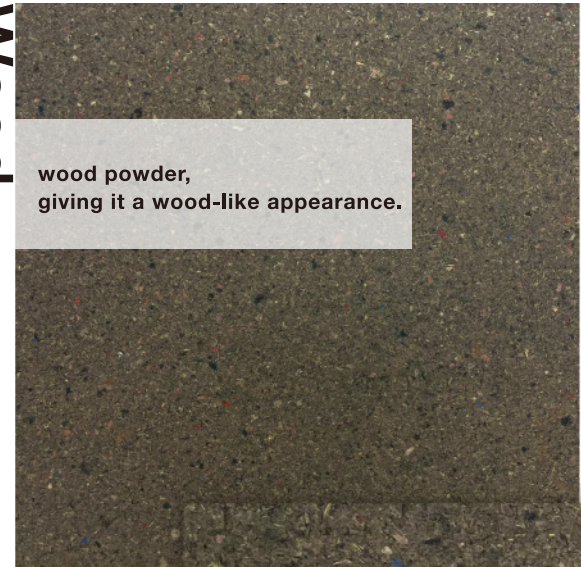


Individual pieces decorated with dried flowers.



300 mm

Wood



wood powder, giving it a wood-like appearance.



300 mm



## Original board (Order made)

### Custom Boards Made from Customer-Supplied Materials

We also offer the creation of custom boards using discarded clothing or scraps provided by our customers. Please note that some materials may be difficult to mold, so contact us for more information.



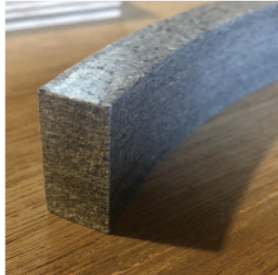


# Our Processing Methods

## Surface processing



Water-Based Urethane Finish  
\* Color variations may occur depending on the board.



Clear Floor Finish  
\* Highly durable and resistant to wear.



Plaster Finish

## Printing



Ink jet printing  
White ink double printing



Ink Jet Printing  
White ink + Full color

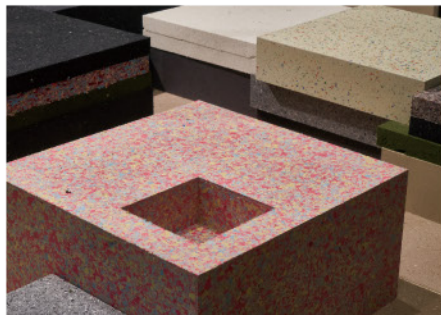


Silk Printing



Foil stamping

## Assembly



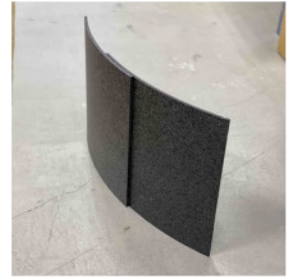
Tone Adhesion



Screw Fastening



Pressing



Bending Processing  
\*Depends on thickness and substrate

## Cutting



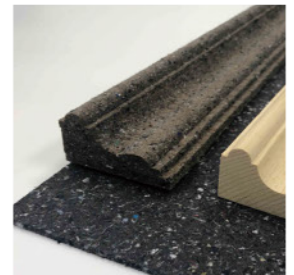
Saw Cutting



Drilling



Lathe Cutting



Molding Cutting




# nunock

nunock by PANECO®



## Specifications

\* Retail Price excluding tax (as of February 2024).

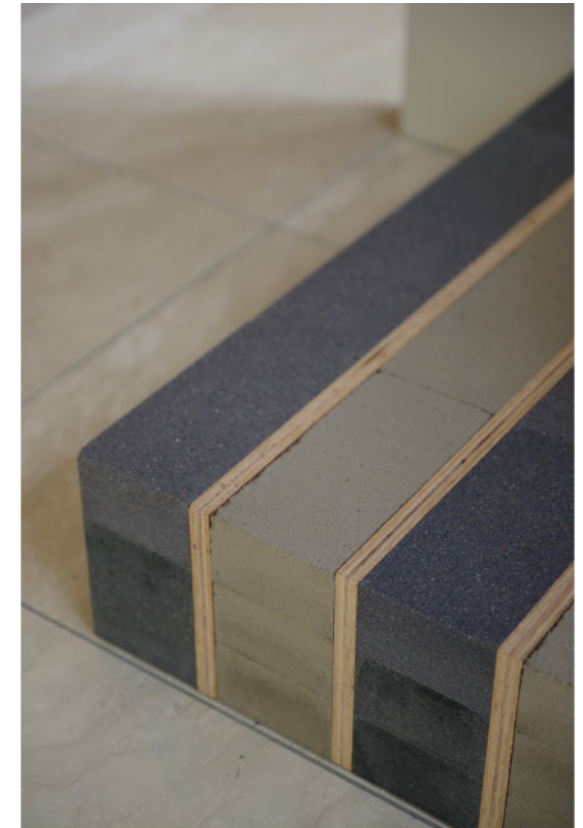
<b>Composition Ratio:</b>	Wasted clothing: 90%
	Binder
<b>Size</b>	212mm×102mm t60
<b>Weight:Approximately</b>	630g  x3 *1 T-shirt 200g calculation

**Retail Price (Per Dozen/12 Pieces)**

**Please contact distributor.**  
info.moririn-paneco@moririn.co.jp

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## Development·Manufacturing Product Production



### -Inquiries-

- Processing or custom board production
- Request for clothing supply and collection
- Collaborative development of other materials
- Media coverage and related inquiries

### WORKSTUDIO CORP.

 2F,4-11-2, Yotsuya, Shinjuku Ku, Tokyo, 160-0004, Japan

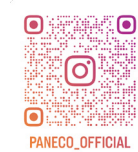
 +81(0)3 5312 9871

 info@workstudio.co.jp

 <https://paneco.tokyo>

## Sales / Distribution Agent

**MORIRIN**  
The Standard



### -Inquiries-


- Product purchase, pricing, delivery time, and inventory
- Sample requests (fee-based)
- Sales agent contract inquiries

### Moririn Co., LTD.

 2-1-3 Higashi Nihonbashi, Chuo-ku, Tokyo 0,103-0004, Japan

 +81(0)3 3863 9311

 info.moririn-paneco@moririn.co.jp

 <https://paneco-atelier.com/> 