





PASSION for our **PANECO®** Business

PANECO® is developed by Workstudio, a company whose core business is designing and production of store fixtures.

It has been three years since the launching of the textile recycling project in 2019, at that time we had no idea what could be created at first, only the fact that a huge waste clothing problem was lying in front of us.

However, with the coorperation of many stakeholders, PANECO® has developed into a "transparent and reliable recycling-oriented material".

We have been and will always continue to be committed to the following principles in our textile recycling business.

Empathy

Share the same thoughts

Collaboration

Working together in their respective areas of expertise

Enjoy

Positively tackling the environmental issues



The first Paneco® board produced

WHAT PANECO CAN do



Almost all the clothes we collect upcycle to PANECO

Almost all textile materials can be upcycled if they are clothing.

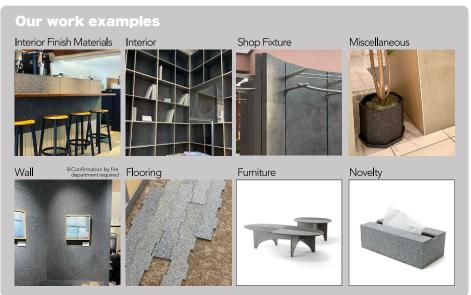
Because there is no need for sorting, we have achieved an almost 100% recycling rate of fiber, which has been difficult to achieve in the textile recycling business.

Workstudio collected approximately 27 tons of waste textiles in one year from the spring of 2021 and upcycled them into PANECO®.

Recycled material with a stylish design

We developed the board under the concept of 'a nice material design which is also good for the environment', rather than just a recycled material which is often considered not stylish or fashionable.

The randomly collected wasted clothing consists more than 90% so the color and patterns vary a lot. Even the same material can be expressed in completely different ways depending on the creator.





Excellent processing ability like wood

Equivalent to particleboard in strength, with a warm, fabric-like feel

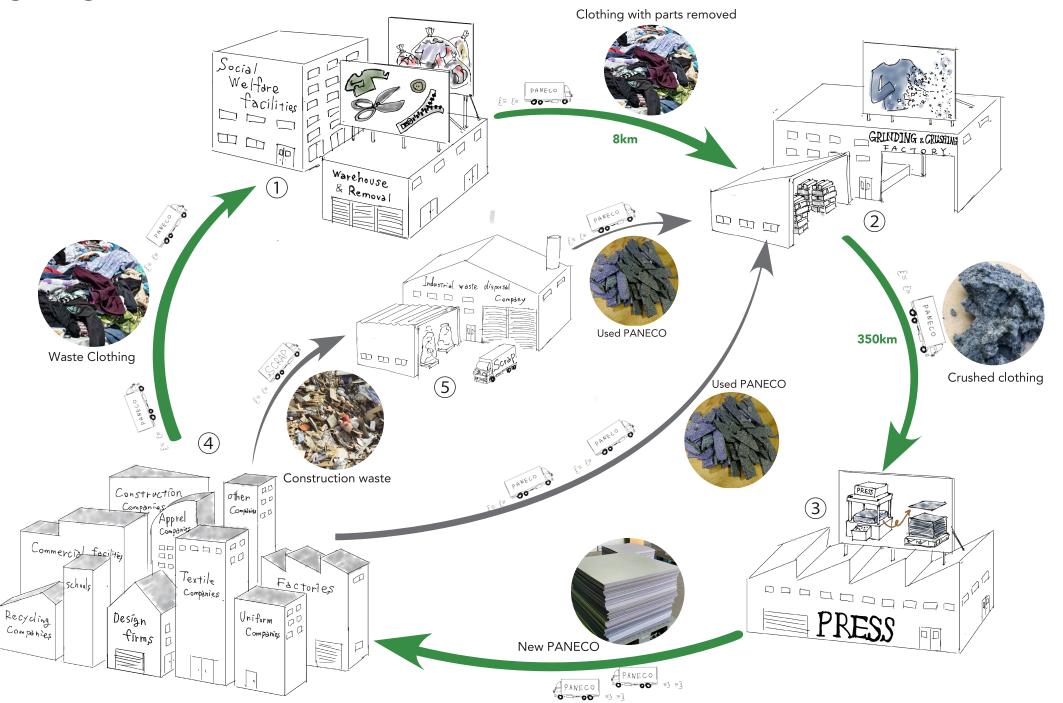
Used PANECO® can be recycled

Used PANECO® and production scraps are 100% recyclable as long as they are in raw conditions.

We have established a system that allows us to not only use recycled materials but also recycle what is left after use. If you have to dispose of the materials, please contact us.

*Collection fees not included.

CYCLE MAP



PRODUCT description











The color and appearance of each board differs significantly because the surface is made up of multiple shades of fiber material.

Textile rate



90% textile rate. Unique texture at the same time keeping the board strength

Circulate



Recycling possible after using the board and collecting

Processing



Excellent processing ability like normal wood

PANECO

SPECIFICATION

91.5% waste clothing component

> 8% binder **0.5%** wax

930×930mm size

thickness t3mm/ 5.5mm/ t9mm

t3 _11,000 yen/ 1 piece price(Apr. 2022)

t5.5 _12,500 yen/ 1 piece

t9 _17,500 yen/ 1 piece

content of fiber t3 _15 T-shirts 15 / per board

t5.5 _20 T-shirts / per board

t9_30 T-shirts / per board

PANECO®

Density (g/cm3) 0.70~0.77

Moisture content (%) 2~5

Bending strength (N/mm2) 18.6~23.3

Water absorption expansion rate (%) 3~8

Peel strength (N/mm2) 0.6~1.0

Formaldehyde emission (mg/L) Average < 0.1 Max < 0.1

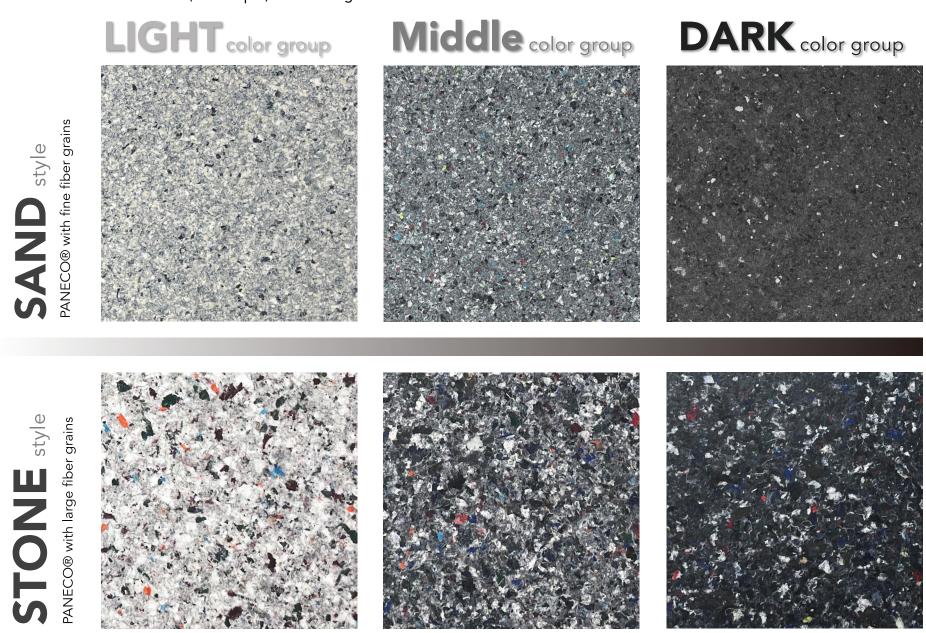
*Important information and disclaimer about the basic product

- The color and appearance of each board will vary due to the coloration of multiple fiber materials
- · Please note that you cannot specify the color or expression of the board.
- · Please note that we cannot accept returns due to color or expression.
- The dimensions of this product are 930mm x 930mm, but please use the design dimensions of 900mm x 900mm, excluding 15mm on four sides.
- The thickness of this product is 5.5mm, but there may be a slight difference in the thickness of each board.
- The surface of the product is not perfectly flat and may be slightly uneven.
- This product does not have "incombustible," "quasi-incombustible," or "flameproof" properties.
- · Please understand the characteristics of this product before purchasing.

TEXTURE Lineup _Regular stock



The standard line have 3 tones of color (color depth) and 2 fiber grain sizes.



^{*}There are variations in color, brightness, and texture among materials within each color group. *Please note we do not accept returns based on color or texture.

^{*}The boards are generally achromatic in color, but there are rare cases where boards with a slight tinge of color are produced. *Because the stock situation is always changing, please ask for the availability before ordering.



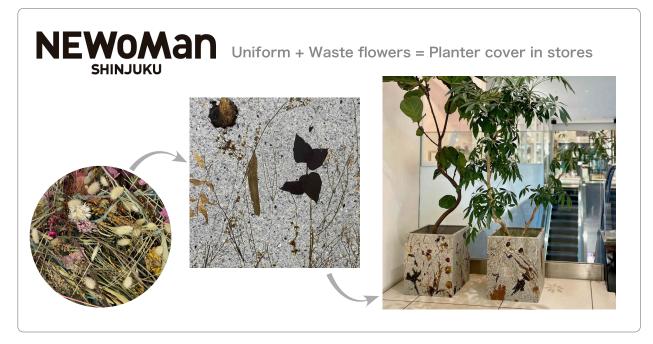
MADE TO ORDER

Example of **PANECO** original production

We are challenging to convert various waste materials such as wasted clothing and used uniforms provided by our customers, wood from fixture waste, and waste flowers into PANECO®. If you want to make use of waste materials that must be thrown away, please contact us first.









PANECO

WHAT YOU CAN DO WITH PANECO







Printing







Inkjet printing



Silk printing



Foil stamping

Processing



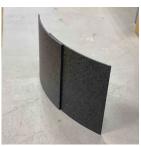
Closure adhesion



Screwing



Crimping

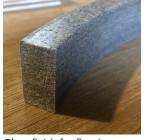


Bending

Top coat



Water-based Urethane finish
*No color change



Clear finish for flooring *Strong durability



Plaster finish

Cutting



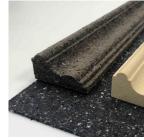
Thread saw cutting



Thompson cutting



Lathe cutting



Molding cutting