

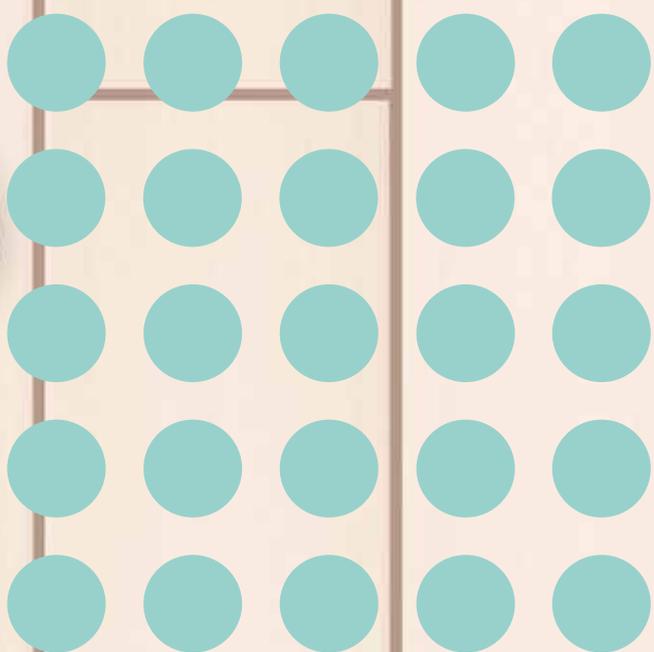
verando®

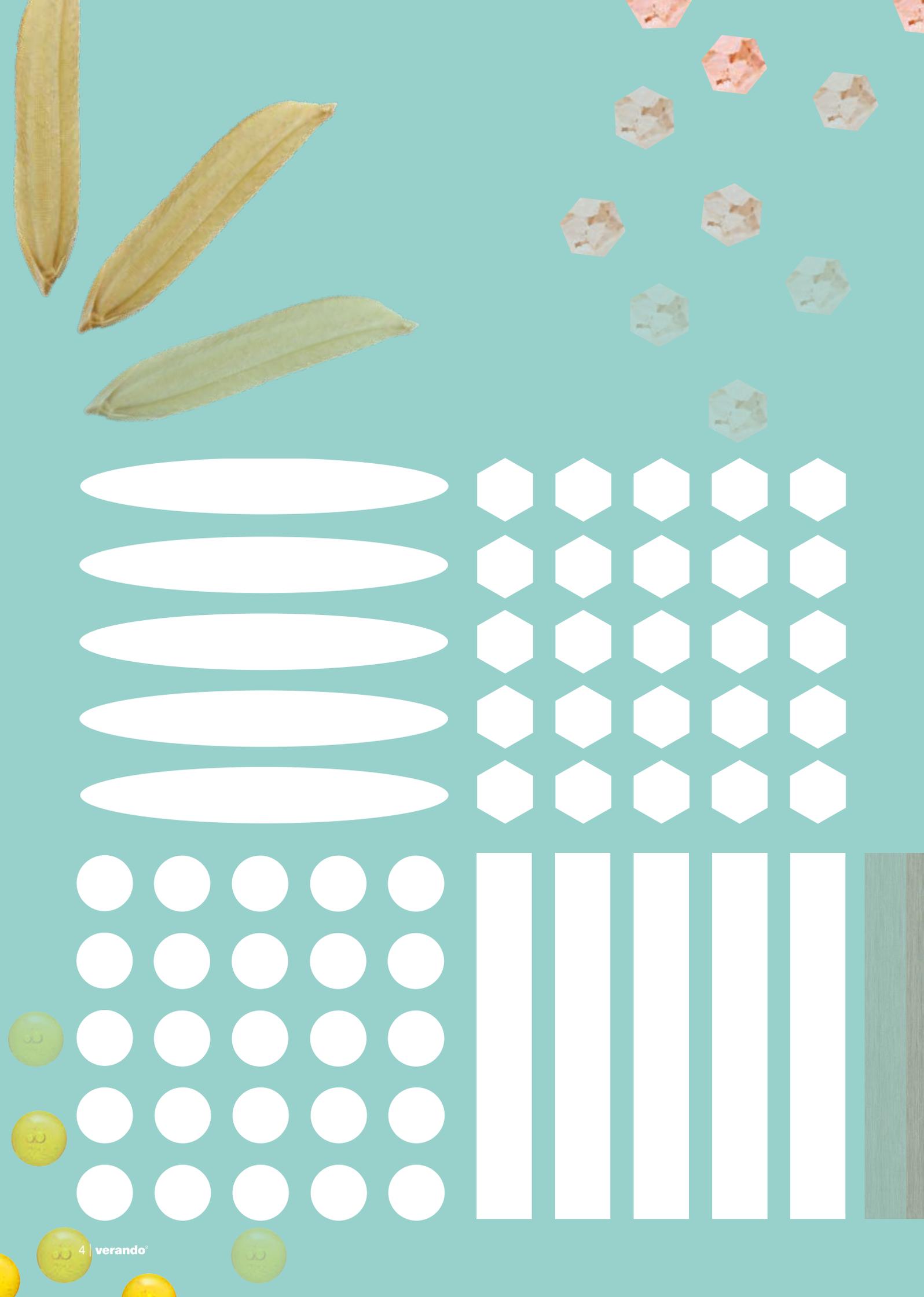
Unique
just like you.





Outdoor
decking
boards,
that last
forever.





Determined to last.



The **verando**[®] decking boards are made of **Resysta**[®]. The innovative material is mainly made of rice husks. In nature the rice husk protects the grain from external influences and doesn't allow the moisture to penetrate. When rice is harvested, large quantities of rice husks are produced, which are unsuitable as food. Together with salt and a small amount of mineral oil they become a highly developed compound: **Resysta**[®]

Index

8

Material

A compound with future 10
Sustainable: 100% Recyclable 12
Advantages compared to wood/WPC 14

16

Maintenance



18

Surfaces

Glazes & care 20



Installation

Technical Information	
and features	24
Assembly	26



Assortment



Frequent Questions and Answers

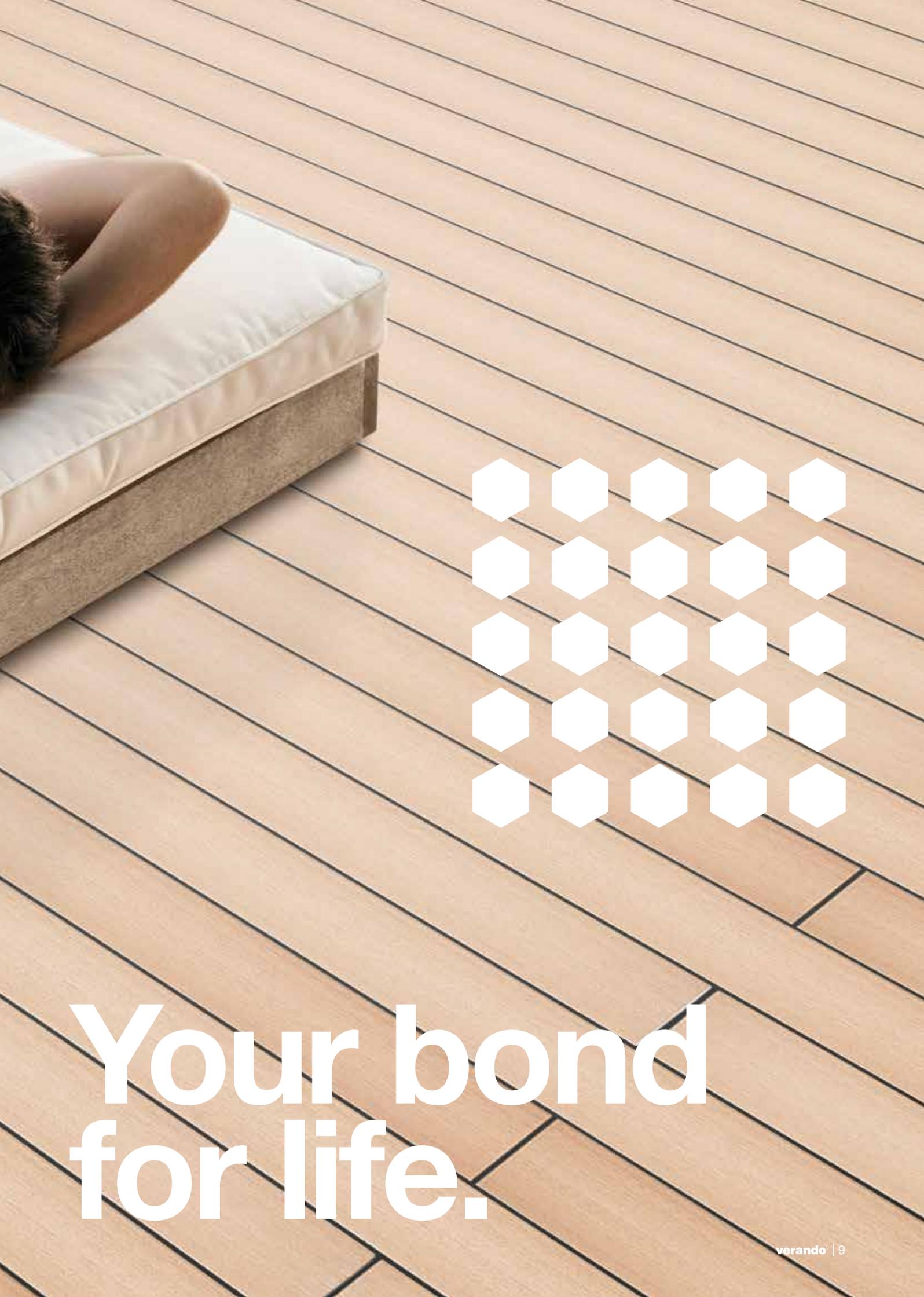


Technical Data sheet





With **verando**® you make an important contribution to the conservation and protection of the world forests. No trees are cut down for **verando**®. The material can be completely recycled and it meets the technical and ecological requirements of tomorrow. It has all the positive qualities of tropical wood and WPC compounds, outperforming both in quality, design and durability.



Your bond
for life.

Your material with future.

Decking boards in captivating finish look

If you truly love the trees, leave them in the forest. Therefore **verando**® has made a new decking board system using an exceptional material. **Resysta**® is not just any wood substitute, it is a material that surprises even experts. Its natural visual appearance and pleasant feel show that **verando**® did everything right. You can consider **Resysta**® an eco-friendly evolution of wood because you can process it in the same way: sawing, drilling, milling, glazing, etc.

Elegant and durable

With the **verando**® decking boards, you get a harmonious balanced structure design. **Resysta**® finish seems natural and looks prettier than tropical wood. Unlike wood, **Resysta**® does not form cracks. This allows to save resources. The compound is produced using high quality standards and can be completely recycled.





100% wood-free

Resysta® overcomes the tropical wood in nearly every aspect. It is weatherproof, resistant to fungus and insects, does not swell, rot, or form splinters. Thanks to the rice husks properties, this unique compound requires minimal maintenance and is slip-safety, barefoot friendly and versatile in colour & shape.



Extremely long lasting



UV stability



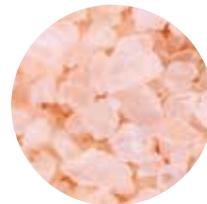
Completely crack-free



Slip safety



Weather-resistant



Reassessed sustainability.

100% recyclable

Every minute an area of rainforest the size of 35 soccer fields is cut down and destroyed. Also the need for other woods increases rapidly. **verando**® production needs no wood and uses **Resysta**, a material made mainly of a natural resource. The **verando**® decking boards:

- save resources
- high-quality
- durable

Rice husks: the key to success

verando® is made of a discard raw material from the rice cultivation that is unsuitable as food. The rice husks used in the production of **Resysta**® come from the European rice cultivation. The material is not only sustainable, but also has features that stand alone:

- high availability of raw material: more than 100 million tons per year
- high silicate content: water repellent
- renewable resource
- 100% recyclable
- slip-safe
- UV-resistant

Rain or sun, summer or winter- always a well-maintained surface

verando® decking boards are ideal for outdoor projects in areas exposed to weather and moisture. Insects and fungus don't have a chance. Requires minimal maintenance, no special care is necessary. A sealing protection and other protective measures are not needed.

verando® won the Green Product Award 2018

The Green Product Award recognizes innovative and sustainable products and services. Since 2013, established companies and start-ups from over 40 countries have applied, and the exhibitions alone were able to reach more than 620.000 visitors. **verando**® impressed with the innovative concept of the closed-loop recycling system.





It has no equal, demonstrable.

Due to the long lasting characteristics compared to natural wood or WPC, the use of **verando**® is highly recommended.

WPC

- Absorbs water and swells
- Color fades
- Grayed out over time
- Feels and appears of plastic



- + Does not splinter
- + Does not mold or mildew
- + Extrudable
- + Weatherproof
- + Easy to maintain

verando®

- + Sustainable
- + Slip-safety
- + Water repellent
- + Stable form
- + Can be varnished in any color
- + 100% recyclable
- + It is hard to distinguish from tropical wood



- + Feels and appears natural
- + Easy to work
- + Robust and stable

Tropical wood

- High maintenance
- Not sustainable
- Crack
- Slip-safety
- Grayed out over time

verando® decking boards are easy to maintain and UV resistant. A long-term test demonstrated the signs of aging after 15 years of sun exposure. For this purpose, the

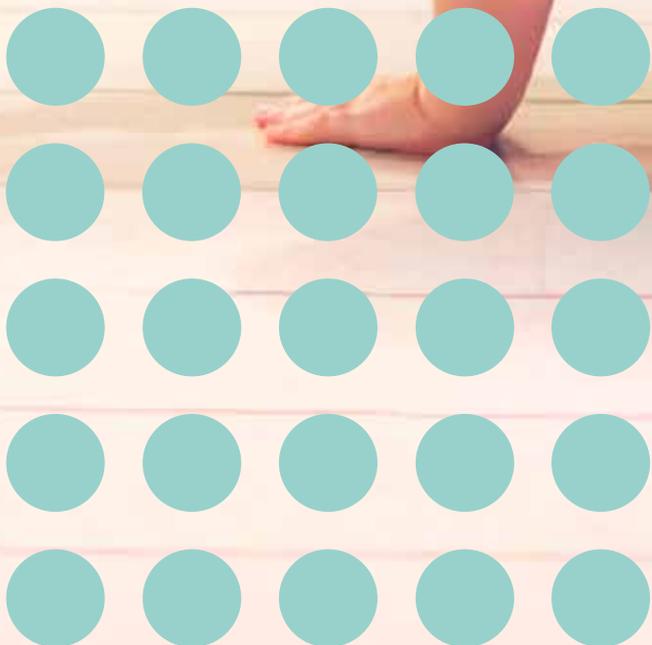
decking boards were irradiated for 2.000 hours with intense xenon light. Classic wood and WPC compounds showed notable signs of weathering in this process.



It's a breeze to take care of it, everytime.

verando® requires minimal maintenance.

For cleaning use only water and, if necessary, an all purpose surface cleaner. It isn't the end of the world if the children play on it or paint it. Even with a garden hose or a high pressure cleaner you can kick the dirt off. You can remove stains with a soft brush or scrubber. In the case of very stubborn stains: sand the stained area with abrasive paper grit 40. Special care oils, regular seals or other protective measures are not needed.



Love at first sight.



verando® has a captivating natural colour. You can install it directly without a pre-treatment. Nevertheless, you can easily customize the decking boards to your own personal colour taste with our one-coat eco-friendly water based glaze assortment.

FVG-C08
Burma

FVG-C23
Aged Teak

FVG-C51
Walnut

FVG-C14
Siam

FVG-C42
Cape Cod

FVG-C7016
Anthracite



Glazes, Maintenance & Care.

Important facts of **verando**® waterbased glazes:

- customize the colour of your deck
- wide color palette available
- ideal to renew, touch up and maintain **verando**® surfaces
- easy to apply
- only one-coat needed

Properties

You can chose your favorite colour from the **verando**® wide range. You will get a more intense chromatic result depending on the number of layers you apply.

Over time, due to the direct sunlight exposure the colour brightens slightly lighter.

The waterbased glazes allow you to customize your deck surface, but reduce the anti-slip property. The layer of paint is subject to deterioration and must be repainted from time to time.

Application

A constant external conditions are necessary for a perfect and uniform colour result.

The material temperature should be between 5 °C and 25 °C, while the relative humidity between 50 % and 60 %. We recommend the use of a hydrometer to measure.



Important!

Shake the color carefully so that all the color pigments will be well distributed. We recommend to treat the surface before decking. If the decking boards are treat after the installation, please see the instructions above. We advise not to paint more than 4–5 m² at the time. The surface treatment should be done by a qualified person.

Cleaning and care of glazed decking boards

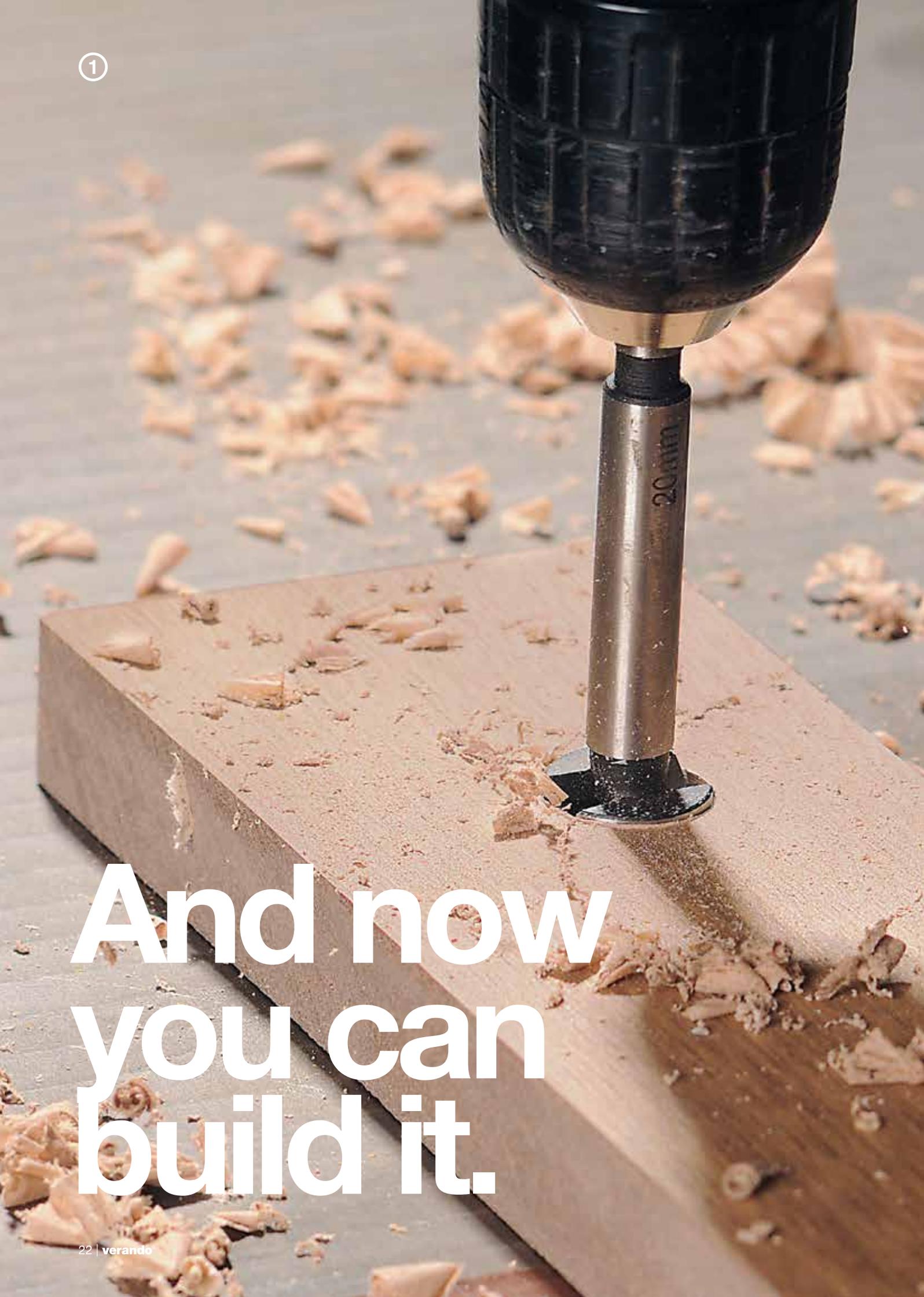
Dirt can easily be removed with a low pressure jet of water (garden hose) or be cleaned with a soft brush. For stubborn dirt (grease, wine, ...) the board may be slightly sanded (grain 40 to 60). Then apply some colour with a cloth or rag.

You can refresh the surface altogether by applying the glaze in diluted concentration. Dilute the paint mixing three parts of water with a part of glaze or until the desired color shade is obtained. Remember to clean the entire terrace before applying the new colour coat.

It is possible to change or remove the colour. Sand the coloured surface (sandpaper grit 24). This allows you to recreate the structural effect. The appearance of the product now corresponds to the natural initial state without losing all the positive properties of **Resysta®**. If desired, apply a new colour.



①



**And now
you can
build it.**



If you like working with wood, you will be impressed by **verando**[®]. The material can be drilled, sawed, planed, polished, glued and painted. It behaves like the natural material. Like wood, the surface becomes rougher or smoother with the right touch.

verando[®] profiles are already delivered by alfer[®] with a perfect polished surface. You do not have to do anything to obtain its unique appearance and feel.

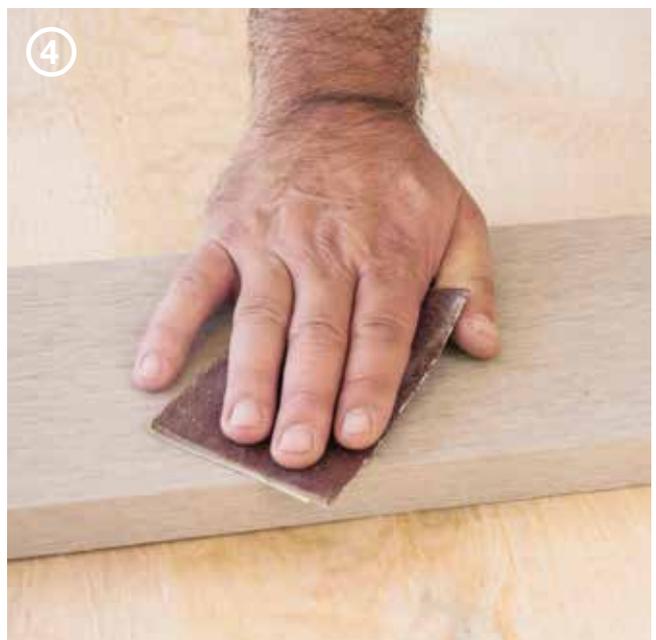
The **verando**[®] decking boards are processed with common tools and machines suitable for wood. You can also order the patented installation accessories set by **verando**[®].



- ①
drilled
- ②
sawed
- ③
planed
- ④
polished



<https://youtu.be/-aliCmlhJqU>



Resysta[®] is about 20% harder than tropical woods. The high quality material **Resysta**[®], like hardwood, is pre-drilled so that cohesion is guaranteed.

Technical Information and Features.

verando® – The system

- One decking board for everything! The 140mm patented **verando®** decking board is also suitable to build the terrace joist
- The wide joist provides enough space for elements of conjunction, even in the part where the boards joint
- Minimum installation height of only 46mm
- Effortless decking on the joist thanks to the exclusive patented **verando®** fixing brackets
- The fixing bracket allows the natural thermal expansion of the material in all directions
- Perfect deck edge design with alfer® aluminum profiles
- The aluminum boxed-in edge frame is optional and facilitates the installation of the joist with the right slope
- **verando®** is the only terrace system that can be laid with a staggered style, like parquet

clipmaster – invisible screw connection

- The new alfer clipmaster set with: 1.2 mm, 2 mm and 4 mm spacers gives you the freedom to choose the perfect joint width
- With the spacers, the expansion joints along the decking boards are perfectly aligned
- The clipmaster set is also suitable for any 140mm decking board made by other manufacturer in any material

Screws

- The 6mm screws are solid, rust-resistant and specially designed for **verando®**
- Pre-drilling with a 4mm drill bit ensures a clean hole and an optimal fit of the screw
- The joining elements of the decking boards are perfectly matched for an excellent installation result

Waterbased Glazes

- A product with only one component. Easy application with a paint brush or roller
- Effortless uniform colour application
- Easy to clean
- Easy to make even minor adjustments
- No protective varnish is needed
- The transparent glaze can be applied directly on the untreated material or as a second layer on colored enamel, for example under increased mechanical stress



A construction site, as you like it.

An inadequate installation will have a negative impact on the stability, durability and design of your terrace. Therefore, please pay attention to the tips and suggestions detailed on this page and let your project become a success.

Drainage

To ensure a regular flow of water, it is necessary to consider at least a gradient of 2%. Water should always be far from the house. In case of frost, the stagnated water in the cavities can cause damage. To prevent this from happening, we recommend to close the ends with an edging profile.

Substructure

verando® must be laid on a solid, robust and stable surface with adequate drainage. The joist boards should be positioned at the prescribed distances from each other and firmly fixed to the ground. This ensures that the joist is permanently stable.

Expansion joint

Everywhere where the boards meet other components, distances must be maintained, even between the boards. This applies to the long sides of the decking boards, as well as, to the boards used to build the joist. The width of the joints is considerably smaller with **verando**® compared with many other materials, yet it can not be done without it.

Joints between the boards: at least 1.2 mm

Joints between the decking boards: 3 mm

Distance to fixed components (masonry, concrete, etc.): 6 mm

Protruded surface of the ends

The ends of the decking boards can protrude beyond the board of the joist for a maximum length of 30 mm.

But hey! It is a terrace not a science project. Let's agree on two fingers wide.

Decking patterns

verando® grants you the possibility to install all kind of decking patterns possible with parquet: regular-parallel, diagonal, diamond decking, angle-cut herringbone, v-shaped, and many more.

clipmaster - the patented connection system between boards

The clipmasters are used for an invisible fix and connection of the boards. These are screwed to the underside of the board, below the previous one. Just push the board and fix the free side to the joist with the screws. In order to ensure that the entire width of the joist boards is used optimally, the clipmasters must always be fixed on staggered tracks. In the parts where the boards joint it is possible to do without an additional joist board.





Assortment.



42001

Decking boards

W×H×L: 140×20×2400mm



42018

Clipmaster set for 4m²

W×L: 140×20mm



42031

Cover strip profile

W×L: 60×2400mm



42037

Edging angle profile

W×H×L: 25×48×2400mm



42021

Joist clamps for 4m²

L x W: 140×20mm



42025

Terrace frame profile

W×H×L: 40×47.5×2400mm



42028

Cover strip profile

W×L: 40×2400mm



42024

Corner connector silver

2 pcs, W×L: 20×42mm



42034

Aluminium connector silver

4pcs. to connect two terrace
frame profiles



42035

Countersunk-head tapping

screw 50 pcs

W×H: 4.2×9.5mm



42500
Burma
Waterbased glaze, 1.0 l



42501
Siam
Waterbased glaze, 1.0 l



42502
Aged teak
Waterbased glaze, 1.0 l



42503
Cape Cod
Waterbased glaze, 1.0 l



42505
Walnut
Waterbased glaze, 1.0 l



42506
Anthracite
Waterbased glaze, 1.0 l



42504
Transparent
Waterbased glaze, 1.0 l



42012
All purpose surface cleaner
RSC, 1.0 l



42507
Primer neutral, 1.0 l
Only as pre-treatment
before a colour glaze

Frequent Questions and Answers **verando**[®] Decking Boards.

Why should I choose **verando**?

- Easy to maintain and sustainable design product
- Very durable and robust
- Attractive product thanks to the minimal joint width and invisible screw connection
- Absolutely weather-resistant and barefoot-friendly
- Versatile design in form and colour
- Natural look and pleasant feel
- No interference in the food chain
- No tree is cut down for **verando**

How does **verando** react to different weather conditions?

- The material is absolutely weatherproof and does not change the surface
- Does not swell, rot, form cracks or splinters
- Highly UV resistant
- Slip-safety even in rain, dew or fog
- Resistant to salt water and chlorine

How durable is the material **Resysta**?

- **Resysta** has an almost unlimited duration. The material is absolutely resistant to atmospheric agents and lasts many decades
- **Resysta** is resistant to fungus and insects, and does not rot

Do **verando** decking boards need to be treated?

- **Resysta** doesn't require care oils, protective seals or similar protective products
- Glazes can be used for an individual colour design
- Glazes reduce the abrasion wear

What do I need to know about the glazes?

- The **verando** waterbased glazes can be applied to all **Resysta** surfaces. They are eco-friendly and kinder for the environment
- One-coat application is enough. If you want a more intense colour shade, simply apply more layers. However, the surface will lose some of the slip-safety property.
- A liter of glaze is sufficient for approx. 12-15 square meters
- The colour may worn down by mechanical stress and can be retouched from time to time
- Other paints have not been tested on this material and might adversely affect it
- The glaze can also be applied with a paint roller or a spray system

Can verando® get stained?

- Like any material, even **verando®** can be stained. Hot water, a light pressure water jet and a brush are sufficient for cleaning
- Stubborn stains and scratches can be removed with sandpaper 40K - 60 K

How do I clean verando® decking boards?

- If you take in consideration enough gradient during the installation, part of the dirt will be washed away by the rain
- If necessary, you can use an all-purpose surface cleaning detergent
- Unpainted surfaces are better cleaned using hot water and a brush
- Glazed surfaces are easily cleaned using water and a cloth or soft brush.
- For stubborn stains, we recommend our special **verando®** cleaner RSC, which can be used till a mix dilution ratio of 1:40

Can I install verando® even around a pool?

- Definitely. The proximity to water is practically the natural habitat of **verando®**. The slip-safety property of **Resysta®** is even enhanced by moisture. This is the special feature of **Resysta®**

- The decking boards are resistant to chlorine and salt water

How are verando® decking boards ecologically evaluated?

- The **verando®** decking boards are recognized, without difficulty, environmentally friendly thanks to the Green Product Award 2018
- The material **Resysta®**, has been awarded a special sustainability prize during the BAU2011
- The rice husk is the main component of **Resysta®**, a waste product from the rice cultivation. No trees are cut down
- The decking boards are permanently resistant to fungus attack
- **verando®** is very resistant and durable, completely recyclable and only uses waterbased eco-friendly glazes for treatment.

How can verando® decking boards be disposed?

- **verando®** decking boards can be disposed in the domestic waste. We don't recommend it, because **Resysta®** material can be completely recycled.
- The manufacturer, after aluminium, can take the remaining material and the removed decking boards and send them to the recycling process

Technical Data Sheet

Resysta® is a natural fiber compound that is extremely weather-resistant and waterproof and thus does not swell, rot, form cracks or splinters. The hybrid material is made

mostly of rice husks and PVC, it looks and feels like tropical wood.

Resysta® is 100% recyclable.

Properties	Norm	Unit	Value
Density	ISO 1183	g/cm ³	1.45 – 1.50
Hardness	–	Shore D	82
Melt Volumen-flow Rate MVR	ISO 1133	cm ³ /10 min	2 – 3
Tensile Strength	ISO 527	MPa	21.8
Elongation	ISO 527	%	2.2
Tensile E-Modulus	ISO 527	MPa	2340
Bending strength	ISO 178	MPa	46.5
Bending E-Modulus	ISO 178	MPa	3850
Bending strain	ISO 178	%	2.5
IZOD Impact Strength notched	ISO 180/1eA	kJ/m ²	2.65
IZOD Impact Strength unnotched	ISO 180/1eU	kJ/m ²	5.99
Heat resistance	ISO 75	°C	62
Linear coefficient of thermal expansion	ISO 11359	10 ⁻⁵ · K ⁻¹	3.5
Water absorption at 100 % RF after 6h	ISO 62	%	0.73
Water absorption at 100 % RF after 32h	ISO 62	%	1.12
Water absorption at 100 % RF after 124h	ISO 62	%	1.85
Thermal Conductivity 20 °C λ	DIN 52612	W/(m ² K)	0.199

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Guarantee exclusion and disclaimer

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