

Product information | Yoroi

**Deeply charred bamboo,
natural appearance, refined
markings, fire class B**

Product description

Yoroi's hard carbon layer and refined markings take on a silvery glow in the sun. The deeply charred bamboo has a natural appearance and was developed specifically for situations where fire class B is required, e.g. public buildings, high-rise buildings and escape routes. This makes Yoroi ideally suited as a sustainable façade cladding. Yoroi also stands out indoors.



Yoroi



Yoroi fixated

Material

Yoroi is made from FSC® thermally modified bamboo from China. Planks are made by compressing bamboo fibres. The bamboo planks are then individually charred by hand in our furnace.

Yoroi gets an extra natural fire retardant through the charring. Therefore, no fire retardants are added that could leach out. No maintenance is required to maintain the fire resistance in the long term.

Fire class

Yoroi has a fire class B-S1, d0, fully tested according to the European standard EN 13823 (SBI) and EN-ISO 11925-2. Values obtained FIGRA 0,2MJ W/s: 21, THR600s MJ: 4.5.

Dimensions

Thickness: 18mm
Width: 155mm
Length: 1850mm

Custom sizes are also available at an additional charge. The standard delivery time is 16-20 weeks, but do enquire about the available options!

Technical specifications



interior and exterior



durability class 1
(European standard – EN350)



fire class B
(European standard – EN13823)



China
(FSC® certified forests)



LCA ISO 14040/44



low maintenance



form stable



density +/- 1150 kg/m3



shiplap profile



mounting with stainless steel screws with a black head or Grad system

Aging

In general, wooden facades and roofs are usually heavily impacted by the elements. UV radiation, rain and hail all contribute to the weathering of a surface. The lifespan of bamboo and the surface is significantly increased with the use of roof overhangs, roof edge profiles and windowsills.

Yoroi weathers very slowly if not at all. However, it is possible that some small pieces of carbon may come loose after a few years, or following severe showers or a hailstorm. This has no effect on either the bamboo or the rest of the carbon layer. In the absence of cover strips, the carbon layer will crumble more easily at the top. The underlying bamboo will become visible and discoloured by the release of the carbon layer.

Fixation

In addition to the carbon-only version, we can also supply Yoroi that has undergone a Bito White fixation. This is a water-based ecological resin and will tone down the outer surface, make it slightly more matt and prevent the carbon from staining. This makes the fixated version of the product extremely suitable for interior applications.

Inspiration



Maintenance

In general, Yoroi does not require any maintenance. However, Yoroi may be subject to green deposits when it is used for walls in shaded areas. Any deposits and/ or dirt can be carefully removed with cleaning vinegar and lukewarm water. We do not recommend using chemical detergents. For cleaning, use a kitchen towel or a soft brush and/or a plant sprayer or, for large areas, a garden sprayer. Do not use a high- pressure sprayer as this may cause irreparable damage to the carbon surface. Do not use a scouring pad and do not scrub.

It is normal for small weathering spots to develop in the wood over the years. Do not attempt to char the bamboo yourself! We also do not recommend painting over any damaged areas with black paint. This does not give a satisfactory result as the appearance of paint is different from the bronze sheen of the carbon layer. In the event of major damage, we recommend replacing the entire plank.

