



# SiOO:X

WOOD PROTECTION

**Micro Structured-Grooved Surface**

## MICRO-STRUCTURED/GROOVED SURFACE

Micro-structured or grooved surface focuses on creating small channels or patterns with dimensions typically measured in micrometers. Micro-structured/grooved surface is in the range of over 9-12 grooves per centimeter on boards. The whole board becomes more homogeneous for treatment, especially important are shiny core parts and knots to also get grooved. It increases the surface area and increase the coating adhesion. It also improves the bonding between wood and SiOO:X products, enhancing overall durability and performance.

The micro-structured/grooved surface is barely visible, you can't hardly see it on the timber. You see the surface as a plane surface.

Micro-structured/grooved surface timbers are good for vertical installation, the rainwater follows the grooved surface downwards. It is uncomfortable to walk bare feet on a Micro-structured timber if it has been installed as decking.

Usually, you need several grooving heads on one equipment to get all the different surfaces of the board grooved.

Micro-structuring of wood is rather new on the market. The cost for installing such grooving heads in an existing planing machine is relatively small ca 20.000-50.000 Euro. The result is very positive. Our experience is that the bonding to the wood increases a lot and is often better than on a fine sawn surface, and certainly on knots and for the pigments. It is a profitable investment.

There are also smaller movable hand driven machines on the market, for structuring on site, and even for use on the wall.