

ORGANOWOOD®

PANEL BROCHURE

ECO FRIENDLY WOOD



ORGANOWOOD® CLADDING PLUS TIMBER.

OrganoWood® Cladding Plus timber is environmentally classified wood modified with silicon that gives a long life and a beautiful silver grey hue. The patented technology give the timber rot protection and creates a water repellent surface.

Cladding timber for demanding conditions

OrganoWood® modified cladding timber has been developed to effectively withstand tough outdoor conditions. The rot protection has been tested by RISE (SP) in the European test EN 113.

Each project is unique. Accordingly, we also produce OrganoWood® modified cladding timber to order in the dimensions and material required in addition to our stocked profiles. For the absolute best result, we pressure impregnate OrganoWood® modified cladding timber with silicon. We collaborate closely with our timber suppliers who have a wide range of different dimensions and profiles.

The cladding timber in its standard form is naturally coloured and over time takes on a beautiful silver grey shade. The timber is carefully selected from high quality Swedish spruce from the best districts.

Environmentally classified timber

OrganoWood's wood preservative products were the first wood preservative products in Sweden to be awarded the Swedish Society for Nature Conservation's (SSNC) eco-label "Good Environmental Choice".

OrganoWood® Cladding Plus is assessed by SundaHus and recommended by Byggarbedömningen and BASTA. The products are registered in the Nordic Swan's house product portal and can be used in Nordic Swan Ecolabelled projects.

The technology used during the production of OrganoWood® was, among others, chosen as Sweden's best Environmental Innovation 2008 and was awarded Nordberg's "Hottest material news" 2014. The Group was elected "Climate Solver" by the World Wide Fund for Nature WWF 2010 and as a "Sustainia 100 company" 2015.



Industrihuset, Skellefteå, built using OrganoWood panel. Picture taken 2018

DISCOVER THE UNIQUE ORGANOWOOD® TECHNOLOGY

The process has been developed with inspiration from the natural fossilization process where minerals penetrate and mineralise organic materials. OrganoWood® is a patented Swedish innovation developed and produced in Sweden.

OrganoWood's technology is based on scientific breakthroughs in methods for modifying biofibres. Using the technology, silicon substances are bound to the wood fibres under high pressure. Penetration of the liquid occurs via the pressure impregnation to create optimal protection.

In addition to the rot protection the timber has also been treated with effective dirt and water protection, which creates a beautiful surface, less crack formation and a more dimensionally stable timber.

Warranty

OrganoWood® has a 10-year rot protection warranty (see the warranty certificate).

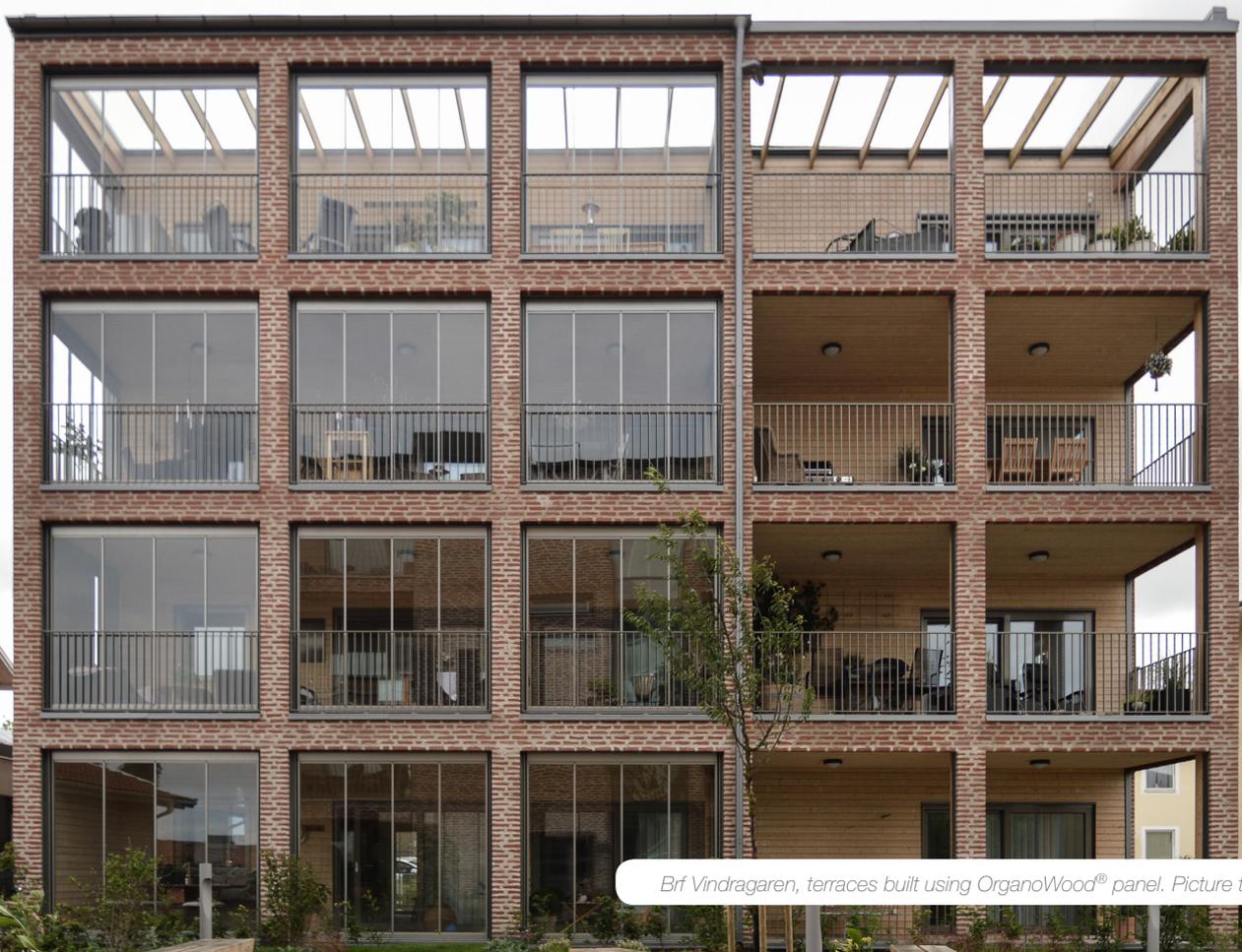
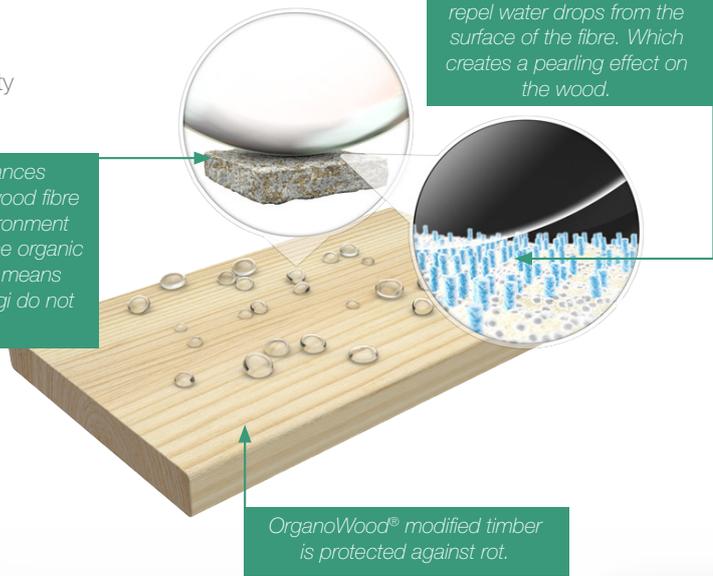
Certificate

All timber from OrganoWood® is FSC® (FSC-C120532) or PEFC certified.

Silicon substances attached to the wood fibre creating an environment that mineralises the organic material, which means wood-decay fungi do not thrive.

Water repellent molecules repel water drops from the surface of the fibre. Which creates a pearling effect on the wood.

OrganoWood® modified timber is protected against rot.



Brf Vindragaren, terraces built using OrganoWood® panel. Picture taken 2017

FACTS ABOUT WOOD

OrganoWood® modified wood is dried to an approximate 18% target moisture ratio, which makes it easier than traditionally treated timber that is used outdoors.

OrganoWood® is primarily adapted for modification of pine and spruce. Pine is traditionally used for patios and structures and spruce for panels. Spruce is used as raw material for exterior cladding on buildings thanks to its good properties, low weight, good strength, small and round knots as well as low moisture absorption. As wood moves in relation to the air's moisture ratio and temperature, cracks can occur and the knots fall out during dry periods. Any cracks usually close up when the humidity increases.

Timber that is placed outdoors turns grey naturally but the greying process can appear differently during the seasons and depending on the weather conditions. In some cases the greying may initially be perceived as speckled or as dark spots/fields, but this evens out relatively quickly. The grey process is slower or there is no greying on a panel that is positioned fully protected from the sun, for example, under a balcony.



ASSORTMENT

OrganoWood® Cladding Plus						
H x W	No.	22 x 120 mm	No.	22 x 145 mm		
	101		102			

OrganoWood® Cladding Plus						
H x W	No.	22 x 120 mm	No.	22 x 145 mm		
	201		202			

OrganoWood® Cladding Plus						
H x W	No.	22 x 145 mm 25°				
	301					

OrganoWood® Cladding Plus						
H x W	No.	22 x 120 mm 54°				
	401					

OrganoWood® Cladding Plus						
H x W	No.	22 x 45 mm	No.	22 x 120 mm	No.	28 x 120 mm
	501		504		509	
	No.	22 x 70 mm	No.	22 x 145 mm	No.	28 x 145 mm
	502		505		510	
	No.	22 x 95 mm	No.	22 x 170 mm		
503		506				



DEMO WALL PLÖNNINGE

In 2017 the energy and environment centre in Halland started a long-term test to see how different types of facade materials withstand exposed locations in Plönninge, just 5-6 kilometres from the Kattegat.

The unique silicon modified panels from OrganoWood® were invited to participate in the test on the disused agricultural school in Plönninge. One barn wall has been divided into 6 sections, 4.2 m wide and about 8 m high. The materials tested were allocated one of these 6 sections to clad the framework with each facade material. The test will run during a 10-year period and will be checked continuously with predetermined measurement values.

Researchers from Linnaeus University will make an inspection once a year during the period to see how the panels behave during the different seasons. The aim of the project is to promote construction with wood in the Halland, where otherwise there is prejudice that wood does not suit the harsh climate.



Demo wall Plönninge. Picture taken 2017

INSTALLATION INSTRUCTION FOR ORGANOWOOD® CLADDING PLUS

To remember before starting

Carefully read through the instructions before installing. A detailed installation instruction has been drawn up and is available at www.organowood.com.

- » Store the timber covered and well ventilated before installation.
- » If you experience streaking on your timber this is because OrganoWood® modified timber is treated in a pressure chamber for the best possible penetration of the wood preservative liquids.
- » Any streaking will be bleached naturally by the weather and wind.
- » Use galvanised nails, stainless steel screws/nails in grade A2 or A4, or surface treated screws/nails in quality C4.
- » When cutting, making holes and other minor processing of the timber, treat the surfaces with OrganoWood® 01. Protection and OrganoWood® 02. Repellent to ensure rot protection remains optimal.
- » OrganoWood® Cladding Plus has a natural colour. The timber will age naturally and adopt a silver grey hue over time. The speed in which the timber greys depends on the placement and the direction it faces. The greying process will vary depending on the weather conditions. The grey process is slower or there is no greying on a panel that is positioned fully protected from the sun, for example, under a balcony.
- » OrganoWood® Cladding Plus must not be painted over.



Silver village, 12 houses built using OrganoWood® cladding. Picture taken 2017

MAINTENANCE AND SURFACE TREATMENT

OrganoWood® modified timber is naturally coloured and over time takes on a beautiful silver grey hue and must not be painted, we recommend surface treatment only using OrganoWood® 02. Repellent. Wood is a living material and requires more or less maintenance depending on the weather, wind and wear.

OrganoWood has developed three products which together create a complete wood preservative system. The products can be used just as well on OrganoWood® modified timber as on other timber, for example, traditional pressure impregnated wood, cedar, larch, etc. When using the OrganoWood wood preservative system on wood outdoors the wood takes on a harder, smoother surface and a beautiful silver grey hue.

OrganoWood® 01. Repellent: Flame and rot protection used as a base treatment on wood to give the wood improved protection against fire and rot. OrganoWood® 01. Protection has a bleaching effect on wood and creates a harder surface that is perceived as smoother and less prone to cracking. The product should be used on OrganoWood® modified timber and on other untreated or treated wood where increased rot and flame protection are desired. *OrganoWood® modified timber does not need to be treated with OrganoWood® 01. Protection except on the cut face and ends.* The product is eco-labelled with the Swedish Society for Nature Conservation's "Good Environmental Choice".

OrganoWood® 02. Repellent: Dirt and water repellent used as final treatment in OrganoWood's wood preservative system and as maintenance treatment of OrganoWood's modified timber. The product gives the wood water and dirt repellent characteristics, reduced risk of surface growth and a surface that is easier to clean.

OrganoWood® 03. Cleaner is used to clean before treatment with the products in the wood preservative system, and for period maintenance. The product is eco-labelled with the Swedish Society for Nature Conservation's "Good Environmental Choice".



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OrganoWood AB, Linjalvägen 9-11, SE-187 66 Täby, Sweden
+46 (0)8-674 00 80, info@organowood.com www.organowood.com