Information sheet & finishing guidelines SaunaPly

GENERAL

High temperatures strongly increase formaldehyde emissions.
Apart from the natural wood content, the special SaunaPly board from RoHol emits hardly any formaldehyde even at high temperatures (60°/ 90°/ 120° C), (conforms to the ÖNORM M6219-1).

RoHol SaunaPly are suitable for sauna chambers, warm air chambers with regulated air humidity („bio sauna") and infrared cabins (in accordance with ÖNORM M 6219-1, point 3). When sauna heaters are used with an evaporator, the chamber must be dried afterwards. Use in steam baths is not recommended.

THICKNESSES

13 and 16 mm, other thicknesses on request

SIZES

2500 x 1250 mm; 2500 x 1830 mm; other sizes on request

GLUING

D4 according DIN EN 204 or EN 314 Part 2 Class 2.
The stress the product is subjected to because of changes in the climate was simulated over a period of several weeks in an in-house test.
The experience gained from more than 10 years of sauna panel construction underpins the safety of the product.

SPECIAL FEATURES

The formaldehyde-free gluing of the ROHOL special plywood board hardly emits any formaldehyde, isocyanates or biocides into the ambient air, even at high temperatures (e.g. 90°C/120°C).

The special structural design and gluing contribute to SaunaPly even emitting significantly **less** formaldehyde than **solid wood** and this at temperatures of up to 120° C.

VERSIONS

These special boards are supplied as per customer requierments in 100 different wood species or with HPL/CPL decks.

FINISHING

Extreme climatic conditions prevail in saunas that can hardly be compared with any other area of application. Unusual applications require special attention to finishing and the necessary experience and care in the planning and design. Due to the structural diversity of sauna designs and installation situations, and in the absence of generally applicable standards, we recommend checking the suitability of the respective finishing and application criteria and to apply the results accordingly.

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RoHol
The Austrian Wood Composer

Finishing guidelines SaunaPly

THE FOLLOWING RECOMMENDATIONS HAVE PROVEN THEIR WORTH IN THE PAST

- Only use fasteners and screws made of V4A steel. This is the only way to prevent oxidative discoloration or corrosion fatigue.
- Condition the boards as long as possible in conditions similar to those at the installation site.
- Plywood boards also shrink and swell. Take this into account during the planning and design stage and point the occurrence of changing gap dimensions out to the customer.
- Flexible fasteners such as profile board claws allow the board materials to move and prevent fastening screws from treating off.
- Staples, pins and nails are not suitable for use in saunas.
- Structural designs with "external tongues" such as the SaunaPly-Connect from RoHol set design accents, allow larger gap dimensions and are therefore visually more tolerant of changing components.
- Increase the recommended number of fasteners specified by the manufacturer by at least 50%. In these climatic conditions, significantly greater distortion stresses occur in the components. This is an effective way to prevent possible unevenness in the surface.
- The SaunaPly gluing system is designed for use in adverse climatic conditions. Nevertheless, make sure that the boards can dray off quickly and that waterlogged areas are excluded. The boards are free of pollutants and protective agents and therefore theoretically suspectible to mould. A dry environment is the best and most natural protection against the formation of mould.
- Rear-ventilated strucutres and the use of vapour barriers in front of the insulation level have proven to be effective.
- Point out to the customer that wood is a natural material. It changes its appearance just as it does outdoors, and it acquires fine cracks and a noble patina over the years. All of this is not a reason for complaint but the difference between a natural product and plastic.
- SaunaPly plywood boards are not fire-proof and therefore not suitable for use in the direct heat radiation area of the heater.
- The panels have not been tested for use in permanently high humidity conditions (e.g. indoor swimming pool) and there is no experience in this regard.

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- As the panels are quite thin, slight warping cannot be ruled out and warranty claims will therefore not be accepted.
- Please note that the correct fastening of the panels is required and warping is to be expected under these climatic conditions.
- The mounting of large-size panels is not recommended due to the few fastening points.
- Unsanded panels must be pre-sanded with 80 grit to prevent the crossband veneer from showing through and to remove any residual veneer joint glue or minor pressure spots.
- Avoid fine surface sanding above 120 grit.
- Treatment and coating of the surface is not recommended.
- If a surface coating (lacquering, oiling...) should nevertheless be applied, it must be properly pre-tested before general application.

This technical information loses its validity when a new edition is published due to technical progress. Our information is based on the latest technical findings and to the best of our knowledge. However, we cannot accept any liability for the general validity of individual recommendations, as the application and processing methods are beyond our control and the particularities of the individual case make it necessary to coordinate the work method according to technical and craft-related aspects. Stay up to date and keep myourself informed about technical changes and ongoing product developments. As of October 2019

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