



USER'S GUIDE

- Description of the product

TMT Marine® is a Thermal Modified Timber based on Maple wood where only temperature, moisture, and pressure accurate control is involved.

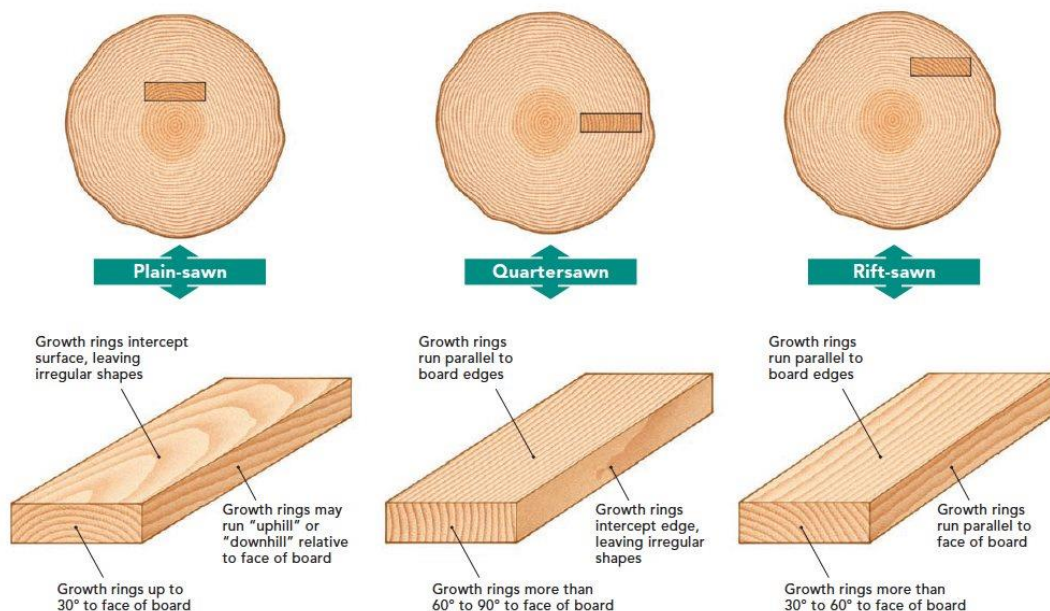
NO CHEMICALS in the process

All the lumber is Quarter/Rift cut, carefully selected on our facilities in North America, guaranteeing the right quality on a renewable lumber with constant availability.



On the following pages you will find how to get the best performance of TMT Marine® based on our own and customers experience since 2015.

- Behavior of the wood according to its type of cut



Plain sawn: We recommend not using tangentially cut wood to avoid possible checks in your work.

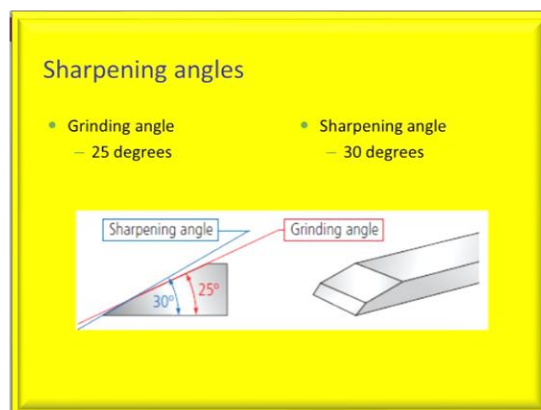
Quarter sawn: That's the kind of cut you will mainly receive from TMT Marine® for your deck production.

Rift sawn: This type of cut is useful for pieces where two faces of the wood are exposed. Ex: Step noses.

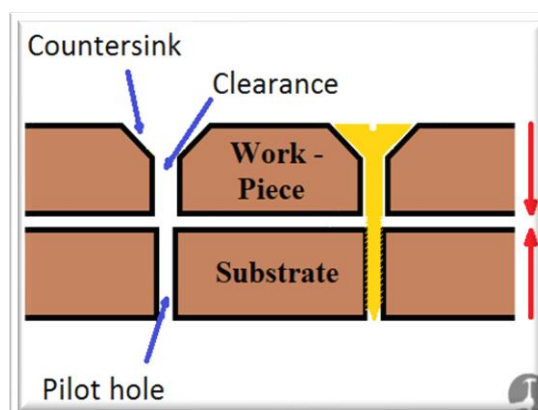
- Tools and machining

All cutting tools will remain sharp for a longer time than you are used to with teak. Despite everything, we must keep all the cutting elements very sharp due to the brittleing of all heat-treated wood.

Sharpening angles recommended



Predrilling is mandatory



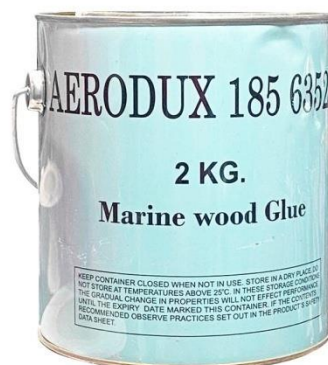
- Gluing

Different types of glues and resins can be used as epoxy, polyurethane or phenol-resorcinol. The latter is the one that has given us the best results.

Aerodux 185 is a liquid phenol-resorcinol adhesive which, when mixed with the powdered hardener HRP 150 or HRP 155, provides a cold-curing, weather-resistant and joint-filling glue. Aerodux 185 is suitable for the production of load-bearing wooden components as well as glued joints of numerous other materials and porous glued surfaces.

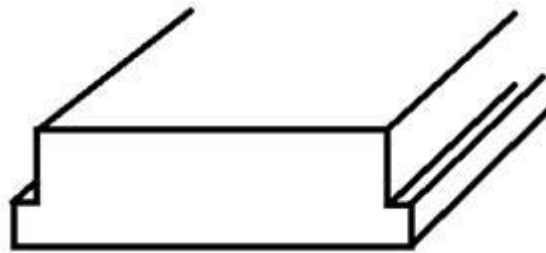
If the adhesive is used in accordance with the information in our technical data sheet, waterproof and weatherproof bonds can be achieved that comply with adhesive type 1 of the European standard EN 301:2013.

Once fully cured, Aerodux 185 is resistant to acids, weak alkalis, solvents and boiling water.



- **Deck planks profile**

We suggest profiling your planks in two half of the seam width except the margin plank. That last joint will absorb any movement of the whole deck.



If the seam is all through the thickness of the plank some concave movement of the planks can occur.

- **Bonding**

Flexible bonding as polyurethane sealant is recommended. That will allow the expansion and contraction movements of the wood to be absorbed.

- **Caulking**

We recommend the use of a bond breaker tape on the bottom of the seam before priming. That helps to obtain the maximum properties of the selected sealant.



- Maintenance

We developed a maintenance program based on two water based products:

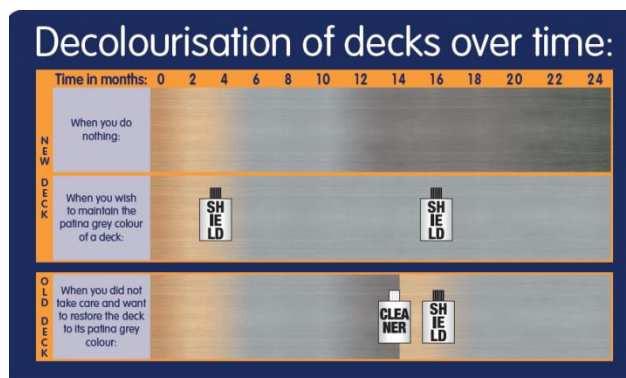
- TMT Marine® Cleaner & Color Restorer

Our cleaner helps to recover the original color of the wood and cleans the deck surface preparing that for the Barrier Shield application



- TMT Marine® Barrier Shield

Is not mandatory to use Barrier Shield on your decks, but helps to keep the surface clean of stains caused by the use of the boat itself. Also minimize the humidity absorption. Two applications per year are recommended



- **Possible problems and how to avoid them**

TMT Marine® as a thermal modified timber is exterior class 1 durability certificated. To reach that point we are in need to heat it, changing the internal structure of the cell. In our case we minimize the stress of the wood being four times longer in the kiln that other standard treatments.

This makes the final product more brittle and some crackles may appear sporadically.

How to avoid them?

- Only quarter cut or rift cut must be used (page 3)
- Always surround your deck panels with a margin plank as was done historically with teak also. That protects for head checks.
- Predrill for screwing.
- Protect heads of thick pieces as cap rails, toe rails etc.
- Use phenol-resorcinol adhesives for gluing.
- Applying TMT Marine® Barrier Shield will minimize moisture absorption especially in the first months.

We did that guide based on our own and customers experience of eight years, to help you minimize problems arising from a new product in your hands. We hope you find it useful and do not hesitate to contact us to resolve any questions you may have.

- CONTACTS

- Main company



info@tmtmarine.com www.tmtmarine.com

- Our partners



Bosteler Feld 29
21218 Seevetal
Germany
Tel: +49 (0) 4105 - 59 29 9 - 50
Fax: +49 (0) 4105 - 59 29 9 - 65
Email: info@neumannholz.de
<https://www.neumannholz.org>



C/ Real De Madrid Sur, 15
46469 Beniparrell, Valencia
Spain
Fax: +34 961 202 237
Tel: +34 961 201 963
Email: blanquer@blanquer.com
<https://www.blanquer.com>



8-18 Brookgate
Ashton Vale Trading Estate
Bristol BS3 2UN
UK
Tel: +44 0117 963 3136
Email: timber@robbins.co.uk
<https://www.robbins.co.uk>



Via Belvedere, 30
33061
Rivignano Teor (UD)
Italy
Tel. +39 0432 779051-2
Email: info@comilegno.com
<https://www.comilegno.com/en/>



4 Bertie Ave
Epping, Cape Town
7460
South Africa
Tel: +27 (21) 535 2004
Email: info@rarewoods.co.za
<https://www.rarewoods.co.za>