

Technical information

The Joubert Group is committed to bringing you all the necessary information. Access this information and services to make your work easier,.

Implementation advice

Here you will find some tips in order to get the most out of the quality of Joubert plywood.

The risks linked to wood dust

Wood is a natural material, however its transformation produces dust which can affect the health of people exposed to it.

Wearing an individual protection mask of a minimum P2 kind is compulsory when the wood dust concentration in the atmosphere of the workplace exceeds the limited value of professional exposure of 1mg/m³.

For further information, you can consult the National Institute for Research and Security website: www.inrs.fr

Protection of the panels

In very humid or exterior environments, a protective treatment is essential for both the decorative aspect of the panel and the preservation against biological attacks.

The general rules for the application of paint or varnish on wood can also generally be applied to plywood (brush, roller or spray gun).

Plywood is a highly versatile material, with exceptional resistance and durability. However, in order to maintain its characteristics and numerous advantages, it is necessary to respect a certain number of rules in terms of logistics, use and installation.

Storage

Plywood panels are not fragile, but their storage does require some care. They should be laid flat on a level surface, preferably safe from moisture.

If the panels have to be stored temporarily outside, the stacks must be covered with a waterproof but vapor-permeable sheet.

Direct contact with the ground can bring about significant moisture absorption in the panels located at the bottom of the pile. It is therefore necessary to place the panels on battens preferably spaced 50 cm apart.

Storage by laying on the side is to be avoided particularly for panels with machined edges. The top of the stack must be covered with a protection to keep the panels free from dirt.

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Handling

When handling the stacks of plywood panels, the edges should be protected in order to avoid damage.

Obviously this is even more important for panels whose surfaces have been painted or veneered.

Cutting and machining

Plywood is machined easily. It is one of the many advantages of this material.

Sawing

Saws with very fine teeth avoid the fibre tearing. The use of tungsten carbide tipped tools is recommended.

When sawing, the panels must be placed in such a way that their face is cut first.

The cutting speed of the blades must be 50 to 60 m/s. The blade projection should not be higher than 10 mm in comparison with the face of the panel.

Grooving

Grooving is generally carried out in the direction of the grain of the face.

The grooves can have various profiles according to the desired effect.

Cutters with tungsten carbide tips are used, and at a striking angle of 20°
Optimal speed is 40 to 50 m/s.

Drilling

The use of augers is perfectly adapted for drilling plywood and the usual rotation speed ranges between 2500 and 5000 rpm.

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General technical characteristics

You will find below a table which sums up all the specific data for Okoume. This can prove essential for a schedule of conditions.



Test laboratory

Examples of characteristic values of Okoume plywood

| Thickness (mm) t_{nom} | Density (kg/m ³) and characteristic resistance (N/mm ²) | | | | | | | | |
|-----------------------------|---|------------------------|--------------------|-------------------|--------------------|--------------------|--------------------|-------------------|--------------------|
| | Density volumique | Bending strength f_m | | Traction F_t | | Compression f_c | | Panel shear f_v | Planar shear f_r |
| | | 0 | 90 | 0 | 90 | 0 | 90 | | |
| ≥ 5 to 10 | 450 | 22,0 to 51,0 | 16,0 to 75,0 | 5,0 to 14,0 | 9,0 to 18,0 | 10,0 to 22,0 | 17,0 to 32,0 | 6,0 to 7,0 | 1,4 |
| ≥ 10 to 18 | 450 | 17,0 to 38,0 | 28,0 to 76,0 | 7,0 to 13,0 | 12,0 to 16,0 | 13,0 to 23,0 | 18,0 to 28,0 | 6,0 to 7,0 | 1,4 |
| ≥ 18 to 25 | 450 | 18,0 to 38,0 | 23,0 to 70,0 | 9,0 to 13,0 | 10,0 to 15,0 | 15,0 to 22,0 | 16,0 to 26,0 | 6,0 to 7,0 | 1,4 |
| ≥ 25 to 40 | 450 | 18,0 to 34,0 | 20,0 to 61,0 | 9,0 to 12,0 | 11,0 to 15,0 | 16,0 to 21,0 | 19,0 to 26,0 | 6,0 to 7,0 | 1,4 |

| Thickness (mm) t_{nom} | Average rigidity (N/mm ²) | | | | | | | |
|-----------------------------|---------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|--------------------|
| | Bending strength f_m | | Traction F_t | | Compression f_c | | Panel shear f_v | Planar shear f_r |
| | 0 | 90 | 0 | 90 | 0 | 90 | | |
| ≥ 5 to 10 | 4 000 to 10 000 | 1 300 to 7 200 | 2 700 to 6 400 | 3 900 to 8 700 | 2 700 to 6 400 | 3 900 to 8 700 | 430 to 550 | 70 to 90 |
| ≥ 10 to 18 | 3 700 to 5500 | 3 800 to 7 600 | 3 600 to 6 200 | 4 600 to 7 700 | 3 600 to 6 200 | 4 500 to 7 700 | 430 to 550 | 70 to 90 |
| ≥ 18 to 25 | 4 000 to 5 300 | 3 900 to 7 300 | 3 800 to 5 500 | 4 000 to 7 000 | 3 800 to 5 500 | 4 000 to 7 000 | 430 to 550 | 70 to 90 |
| ≥ 25 to 40 | 3 900 to 5 300 | 4 500 to 7 200 | 3 800 to 5 600 | 4 600 to 7 000 | 3 800 to 5 600 | 4 600 to 7 000 | 430 to 550 | 70 to 90 |