

DATA SHEET - PLYWOOD FOR LASER CUTTING

It is a wood-based panel consisting of layers of wood glued together (outer and inner veneers), with the fibers of the adjacent layers usually running at right angles. All layers (outer and inner) are made of birch wood. This type of plywood is intended for laser cutting.

Types of plywood strips depending on bonding quality:

- Moisture resistant - on the basis of urea-formaldehyde resin, for use in dry conditions (according to PN-EN 636), meeting the requirements of 1 gluing class quality according to PN-EN 314-2

Surface quality:

Plywoods are produced according to ZN-2007/BZS-SPW-1

Types of plywood depending on surface:

- N – unfinished plywood – raw
- U – plywood with a refined surface - covered with hardened urea resin

Thickness and tolerances

Plywood is produced in the following thicknesses:

- 12 mm (+0,6; -0,8mm)
- 15 mm (+0,7; -0,9mm)
- 18 mm (+0,7; -0,9mm)

Tolerances acc. to EN 315.

Humidity

10±5% (according to EN 322).

Density

650 – 750 kg/m³ (according to EN 323).

Standard formats

2500x1250mm, 1250x2500mm, 2440x1220mm, 1220x2440mm, 2130x1250mm, 1250x2130mm or as agreed with the customer.

Length and width tolerance: ± 3,5 mm (acc. to EN 315).

Edge straightness: ± 1,0 mm/m of side length (acc. to EN 315)..

Processing options:

Cutting into smaller formats; simple and profile processing of edges, drilling holes, milling grooves, grooves, rebates; machining on CNC machining centers.

Application

Plywood for laser cutting is mainly used by manufacturers of punching dies (laser beam cutting) for automatic production of cardboard packaging. It is used also wherever a laser beam is used to cut elements or patterns.

