

## BIRCH PLYWOOD TECHNICAL SPECIFICATION AND DESCRIPTION OF THE UNIT PRICE

### Name of the Work:

This specification, “.....” describes its work and describes the application, methods, and details of other materials to be used with Birch Plywood .....work to be done. (please write the name of the work to be done in the blanks)

### Description of the Work:

The dimensions specified in the project and detailed images are by the type and size of the profile described in the architectural project ..... (the name of the work) is to be done. Again, along with the heat, moisture, and sound insulation details specified in the architectural project, it is the installation of Birch Plywood with the application recommendations specified by the manufacturer's companies, respectively. Before and after all these operations, the final surface treatment of the Birch Plywood used is carried out. It includes the Unit (m2, m3, plate) price including all kinds of materials, labor, loading at work, horizontal and vertical transportation, unloading fee, contractor profit, casualties, fire, and overhead expenses required for all these works. Huş Kontrplak Teknik Özellikleri:

### Technical Characteristics of Birch Plywood:

1. Stabilization of wood material is increased.
2. Static resistance is higher than solid wood materials.
3. The humidity of the wood is reduced to the range of 4-7% all over.
4. Birch plywood has a density of 670-750 kg/m3.
5. It is a 100% natural material. It complies with E1 Standards.
6. It is environmentally friendly, healthy and 100% recyclable, which does not pose any threat to human and animal health.
7. The material is resistant to different climatic conditions and has a long service life.
8. Its resistance to vegetable and animal wood pests has been increased.
9. The inner and outer color of the wood are homogeneous.
10. Its flammability has decreased somewhat compared to ordinary wood.
11. The ability of lacquer, paint and oil retention is improved.
12. Sound and thermal insulation values are superior to solid wood material.
13. Thanks to the superior surface calibration, the desired coating products (laminated, melamine, solid coating, etc.), can be applied to the surface by gluing.
14. Thanks to its flexible application features, it can be used in many areas.





### **Description of Birch Plywood Material:**

The thin peeled Birch boards, which are obtained by peeling the Birch tree trunk parts of certain lengths and diameters with a thickness of 1.4 mm in special machines, are dried to 4-7% humidity, and the surfaces are glued with EcoLogical Lignin adhesive. It is a wood material obtained by sticking 3, 5, 7, and more odd-numbered boards by placing them on top of each other with their fiber directions perpendicular to each other and pressing them under pressure. After the pressing process, Birch Plywood products are sanded on both surfaces, the calibration process is performed, and the edge is subjected to mitering.

The main source of EcoLogical Lignin used for bonding boards contains 20-30% Lignin, a polymeric substance that forms woody cell walls of trees along with cellulose in all woods and binds wood fibers and cells together. This strong and rigid structure allows trees to stand upright and grow. Lignin is a recyclable, 100% natural, and environmentally friendly product found in abundance in trees and plants all over the world.

### **Sizes of Birch Plywood Material:**

#### **Panel sizes;**

1220 mm x 2440 mm

1250 mm x 2500/2750/3000/3340/3660 mm

1500 mm x 3000 mm

1525 mm x 2500/2750/3050/3340/3660 mm

1830 mm x 3050/3340/3850 mm

2150 mm x 3050 / 3340/3850 mm

Birch plywood panels with a length of up to 2500 mm are also available. Special size panels and processing can be made according to the customer's requirements.

#### **Thicknesses;**

4, 6,5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm



### Surface Quality Classes of Birch Plywood Material:

- B (I) - the most ideal surface for high-quality painting and varnishing, 1. grade decorative surface.
- S (II) - suitable surface for quality painting and varnishing.
- BB - the ideal surface for painting and varnishing, the ideal surface for thicker coatings, films, interior painting, and other surface treatments, both transparent and non-transparent.
- WG - for use in places where the appearance of the surface does not matter. Snagged surface.
- WGE is WG class plywood, in which all obvious defects, slits, snag holes, split intertwined snags, peeling defects, prints, and holes are repaired with putty. Unpastished areas are not allowed.

### Areas of Usage of Birch Plywood Material:

#### In construction works

- In the mold works
- On the pier platforms
- Facade cladding
- In the manufacture of wooden houses, the whole structure
- Interior partitions and roofing works
- In the floor and parquet industry

#### In furniture works

- In the manufacture of all kinds of furniture
- Door
- Shelf
- Office furniture



### **In transport and shipbuilding**

- On the floor and sidewalls of truck trailers
- On the floors of containers
- On the floor and sidewalls of wagons
- In animal transport vehicles
- On the ground and sidewalks of vehicles such as buses, and trucks. Also in the manufacture of many spare parts.
- For the manufacture of ships, boats, and many offshore vehicles.

### **Packaging**

- The material has high resistance to moisture and chemical material
- It is cheaper than other materials
- It is more durable and lightweight
- It is safe and hygienic
- It is a reusable and environmentally friendly material
- It can be used in all kinds of packaging

### **Other areas of usage**

- Toys
  - On the walls as a floor and sound insulation in gyms
  - In musical instruments
  - In the construction of music columns
  - Traffic signs, billboards, and urban furniture
  - Garden huts
  - On basketball hoops and skating platforms
  - Wall climbing boards
  - On the stands, stage, and show platforms
  - In the production of kitchen and bathroom cabinets, and countertops
  - Textile machine tables and cutting machines, making machine models
- And it continues to be used in many more areas.

