

## Building materials made of wood

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**Building materials made of wood** wood chips, solid wood or fiber webs of various shapes, which are glued or pressed into sheets. With the latest technology derived products have remarkable properties, which increases the range of use.

### **Types of existing building materials of wood:**

1. Wood pulp.
2. Layer veneer.
3. Plywood.
4. Particleboard (chipboard).
5. MDF (fiber board).
6. Stove oriented direction of the chip.
7. Bearing structures.



**Wood pulp** - is a timber, which is in its properties superior to conventional standards and has a higher degree of assurance. Standard cross cuts reduce the price of construction of the array construction process, simplify the layout and assembly. During the construction of large structures used laminated board, which is produced by gluing and drying planed boards. Scope is wide enough - from minor repairs to the construction of solid structures.

With their help carry out the construction of houses made of beams, erecting frame house of the future, and is also used for various construction works.





By this kind of sawn solid wood are:

Block house.

Brus.

Lining and Lining.

Boards.

As well as a plinth, trim, corners, the layout of the pine needles, oak, beech and others.

**Layered wood** veneer made from softwood fibers, which are arranged parallel to each other. Made in the form of bars or plates. It features high strength, is resistant to bad weather. Lead has a relatively high strength and moisture resistance, and thermal shock.



**Plywood** - sheet material composed of bonded together sheets of veneer or chips, which are obtained by cutting a whole logs. Depending on the structure of the inner layer distinguish plywood and blockboard. Plywood is often used in the construction of bearing structures, formwork, cladding. Plywood - it is somewhat cheaper, but also less durable multi-layer building material made of wood.





- Plywood longitudinal called if the fibers in the facial layers oriented along the long side, otherwise the - transverse
- Plywood, how hard and softwood produces several types and varieties, which differ in purpose, durability, appearance and cost.
- On purpose - construction, industrial, packaging, furniture and construction purposes.
- By type of plywood is often divided into two popular types - FC (water-resistant) and PSF (increased water resistance).
- According to the type of treatment - laminated.

### **According to the number of layers**

- three-layer
- five-layer
- multilayer

**Wood-stuzhechnaya plate (DSP) -**  
sheets of different thicknesses,  
obtained by mixing and compacting  
particles of comminuted wood special  
binder composition, wherein the wood  
particles unidirectional connection that  
eliminates the deformation of the  
material and making it more abrasion  
resistant. Fibres and particles are  
mixed in different directions



Density -  $0.5-1.0 \text{ g / cm}^3$ , swelling in water - 5-30%, tensile strength  
- at least 0.2-0.5 MPa, the flexural strength - at least 10-25 MPa  
humidity - 5-12%.



- **Fiberboard (MDF)** - plates of varying thickness, made from wood fibers (obtained from Waste) with a binding agent or without it. They are used for interior and exterior wall cladding, carpeting, as insulation.? They are divided into general and special purpose fiberboard.
- Fiberboard special purpose in turn divided into:
  - bituminous
  - bioresistant
  - nonflammable
  - boards with veneered or painted surface - is also called 'hardboard'.
- Depending on the purpose fiberboard divided into hard and soft.




- **Solid plate.** Solid plate depending on the strength, density and type of the front surface is divided into marks:
- T - with the front surface neoblagorozhennoy
- TC - with face layer of fine wood pulp
- T-P - with tinted face layer
- T joint venture - with a colored face layer of fine wood pulp
- T B - neoblagorozhennoy a front surface and increased water resistance
- T-CB - with a face layer of fine wood pulp and increased water resistance
- HT - low density (semi)
- ST - high strength (superhard) from the front surface neoblagorozhennoy
- CT-C - high strength (superhard) with a face layer of fine wood pulp
- **Soft slabs**
- Flexible plate according to the density of the marks are divided into M-1, M-2 and M-3.
- It used in construction, car building, production of furniture, carpentry and other products and designs that are protected from moisture, as well as in the manufacture of packaging; as the basis for paintings in oil painting.

**Oriented strand board direction** - a plate, the quality is similar to plywood, but obtained by stacking a large chip in the desired direction using a special spraying unit. The outer layer of the chip is placed perpendicular to the middle and glued under pressure. It has good mechanical properties and elasticity, thus apply for cladding buildings, carpeting and furniture industry.



Плита с ориентированной стружкой OSB-3 Glunz

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- **Bearing structures.** Characterized in that in places severe loads are enlarged cross-section. They are made of solid wood, of wood fibers, mixed with mineral binders. Used as insulation as load-bearing structures can also be the basis of plaster.

Русский	Қазақша	English
<p><b>Шпон</b> <u>древесный материал</u>, представляющий собой тонкие листы <u>древесины</u> толщиной от 0,1 до 10 мм, который обычно клеится на панели (обычно деревянные или <u>ДВП</u>) для производства мебели, дверей, полов и пр. Шпон — переводится с немецкого языка как щепка</p>	<p><b>шпон</b> ағаш бағанасының кесінділерінен аршу және <u>сүргілеу</u> арқылы жасалған қалыңдығы жұқа <u>табақтар</u></p>	<p><b>veneer</b> (In <u>woodworking</u>, <b>veneer</b> refers to thin slices of wood, usually thinner than 3 mm (1/8 inch),</p>
<p><b>Фанера</b> — многослойный <u>строительный материал</u>, изготавливаемый путём <u>склеивания</u> специально подготовленного <u>шпона</u></p>	<p><b>Фанера</b>) — екі не одан да көп жұқа <u>ағаш тактайшаларды</u> бір-біріне беттестіріп <u>желімдеу</u> арқылы алынатын ағаш <u>материал</u>.</p>	<p><b>Plywood</b> is a sheet material manufactured from thin layers or "plies" of <u>wood veneer</u> that are glued together with adjacent layers having their <u>wood grain</u> rotated up to 90 degrees to one another.</p>
<p><b>строительный материал</b> материалы для возведения и ремонта зданий и сооружений.</p>	<p><b>Құрылыс материалдары</b> — үйлерді, ғимараттарды салу мен жөндеуде пайдаланылатын табиғи және жасанды материалдар мен бұйымдар</p>	<p><b>Building material</b> is any material which is used for construction purposes</p>
<p><b>Брус</b> — <u>пиломатериал</u> толщиной и шириной 100 мм и более.</p>	<p><b>Қырлы бөрене</b></p>	<p><b>timber</b></p>

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<p><i>Древесноволокнистая плита (ДВП)</i> — листовой материал, изготовленный путем горячего прессования или сушки ковра из древесных волокон с введением при необходимости связующих и специальных добавок</p>	<p><i>Талшықты ағаш тақтасы</i></p>	<p><i>Hardboard</i> (not to be confused with <a href="#">hardwood</a>), also called <b>high-density fiberboard (HDF)</b>, is a type of <a href="#">fiberboard</a>, which is an <a href="#">engineered wood</a> product.</p>
<p><i>Стружка</i> — небольшой кусочек <a href="#">дерева</a>, <a href="#">металла</a>, <a href="#">пластмассы</a> или другого материала, представляющий собой тонкий и узкий слой, срезанный ножом, строгательным или металлорежущим инструментом</p>	<p><i>Жаңқа, жоңқа</i> -кесетін құралмен бетінен сыдырылып алынған ағаш, <a href="#">металл</a> және т.б. материалдардың жұқа, жіңішке қабаты.</p>	<p><i>Woodchips</i> are a medium-sized solid material made by cutting, or chipping, larger pieces of <a href="#">wood</a>.</p>
<p><b>Плинтус</b> – это тот продукт, который вносит завершающий штрих в любой ремонт. Современный <b>плинтус</b> может быть изготовлен из разных материалов и обладать различными эксплуатационными качествами.</p>	<p><a href="#">Ернеулік</a>-еден мен қабырға арасындағы саңылауды бастыра шегеленетін тақта</p>	<p><b>baseboard</b></p>