

PRODUCTS

Segezha Group manufactures cross-grained and long-grained plywood.



Fiber direction of external veneer sheets of cross-grained plywood is perpendicular to the largest side of the plywood sheet.

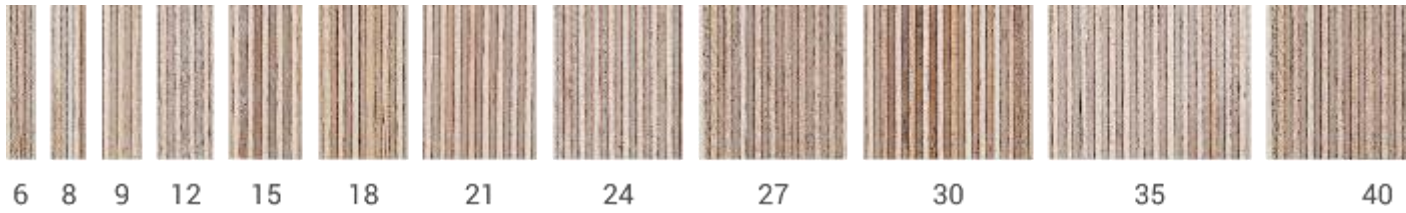


Fiber direction of external veneer sheets of long-grained plywood is parallel to the largest side of the plywood sheet.

Specifications of Segezha Group birch plywood

Plywood type	FSF, FOF (laminated plywood), cross-grained and long-grained
Veneers	100% birch
Names of Segezha Mill plywood	S-FORM, S-RAW, S-MEL, S-WIRE, S-IRONBIRCH, S-COLOR
Formats, mm	1220x2440/1250x2500 mm – 4x8 2440x1220, 2500x1250 mm – 8x4 1500x3000; 1525x3050 mm – 5x10 1220/1250x3000/3050 – 4x10 1500/1525x2400/2440/2500 mm – 5x8 Other formats are available upon request
Thickness	6 to 40 mm
Grades	B, S, BB, WGE, WG, CP, C, B/BB, B/CP, B/C, S/BB, BB/BB, BB/CP, BB/C CP/C, CP/CP, C/C.
Surface treatment type	Not sanded (NS) Sanded on both sides (S2S) Laminated on both sides (FF) Smooth surface on one side and mesh (wire) surface on the other side (FW)
Formaldehyde emission	E1
State standards, technical specifications	EN-13986:2004, TU 5513-002-93222532-2016, TU 5512-006-93222532-2016

Thickness of Segezha Group birch plywood (mm)



Uncoated plywood grades

		Grade of face side				
		B	S	BB	CP	C
Grade of back side	B	B (B/B)				
	BB	B/BB	S/BB	BB/BB		
	CP			BB/CP	CP (CP/CP)	
	C			BB/C	C/CP	C (C/C)

High quality ← ————— → Quality reducing

B Grade: Practical absence of defects. Standalone healthy intergrown knots up to 25 mm in diameter are allowed, or knot holes up to 5 mm in diameter.

BB Grade: Patched veneer is allowed: knots over 25 mm in diameter and visual defects.

CP Grade: Any number of veneer patches and discolorations is allowed. **CC Grade:** Manufacturing flaws and wood structure defects are allowed. High quality gluing is guaranteed.

"Segezha Group plywood specifications

Physical and mechanical parameters

Parameter	Measurement unit	GOST 3916.1-96	EN	Actual value in 2015
Ultimate split strength (bond strength)	MPa	1.0 or more	1.0 or more	2,2
Ultimate resistance to static bending along the external layer fibers	MPa	25.0 or more	47.0 or more	72,1
Ultimate resistance to static bending across the external layer fibers	MPa	N/a	38.0 or more	62,7
Modulus of elasticity for static bending along the external layer fibers	MPa	7000 or more	7000 or more	8571
Modulus of elasticity for static bending across the external layer fibers	MPa	N/a	3800 or more	6726
Moisture	%	5 to 10		7,2

Formaldehyde emission

Formaldehyde emission (emission grade E1)	GOST 3916.1-96	CARB	Actual value in 2014-2015
Gas analytical method, mg/m ² *hr	Up to 3.5 inclusively, or less than 5.0 within 3 days after manufacture	Up to 0.36	0,13
Chamber method, mg/m ³	Up to 0.124	N/a	0,005

Segezha Group plywood assortment

S-RAW

S-RAW is sanded, uncoated, cross-grained and long-grained plywood. It is used in all spheres requiring heavy duty and at the same time lightweight materials, or demonstration of the good-looking birch wood structure.



S-WIRE

S-WIRE is plywood covered with 120-440 g/m² phenol film with “mesh” coating. Coating colors are: dark-brown, black, grey, dark-spotted grey. Other colors are available upon request. Taber test wear resistance index is 400 to 2000.

S-WIRE is widely used in transport and flooring manufacture, as well as in other spheres requiring high wear resistance and anti-skid properties of materials.



S-FORM

S-FORM is plywood covered with 120-440 g/m² phenol film with smooth coating. Coating colors are: dark-brown, black, light-brown, yellow. Other colors are available upon request. The butt-ends of the plywood are coated with water-resistance paint. Plywood with client’s logo can be manufactured.

S-FORM is used for monolithic construction, transport (walls), construction of agricultural buildings, as well as in other spheres requiring high durability, geometrical stability, corrosion resistance and extreme humidity resistance.



S-IRONBIRCH

S-IRONBIRCH is used in the spheres requiring good anti-skid properties and high surface durability such as bus flooring, industrial flooring, loading platforms, storage racks.



S - HEXA

S-HEXA is plywood coated with 120-220 g/m² phenol or melamine film. The plywood surface has hexagonal structure. Its Taber test wear resistance index is 400 to 500. Possible colors of the surface are grey or brown.

S-HEXA is used in the spheres requiring good anti-skid properties and high surface durability, such as transport or warehouse flooring.



S-Color

S-COLOR is plywood coated with 120-220 g/m² phenol film. Possible colors of the surface are: yellow, grey, green or red. Other colors are available upon request.

S-COLOR is used for furniture manufacturing, interior furnishing, transport and decoration.



S-MEL

S-MEL is plywood coated with 120-220 g/m² melamine film. The surface structure is smooth or semi-transparent. The color of the surface is white. Other colors are available upon request. S-MEL can be used in furniture manufacturing, interior furnishing, transport and other spheres where decorative properties of the material are important.

S-LNG

S-LNG is a non-overlaid plywood of increased strength properties with face layers of BB or WG veneer and internal layers made of veneer, meeting the increased requirements for the quantity and types of admissible defects. This type of plywood is manufactured in accordance with NO96 technology and requirements of the GTT standard.

S-LNG outstands a high level of pressure and maintains dimensional stability under the influence of extremely low temperature (up to -160 ° C). It is used in the isolation systems of membrane tanks of LNG tankers intended for the transport of liquefied natural gas.

Certification confirming compliance of S-LNG plywood with GTT-standard requirements is under development