



# BIRCH PLYWOOD

QUALITY FOR UNIQUE SOLUTIONS

# GLOBAL REACH



3  
paper sack and  
packaging plants



3  
plywood  
plants



2  
pulp and  
paper mills



1  
glulam plant

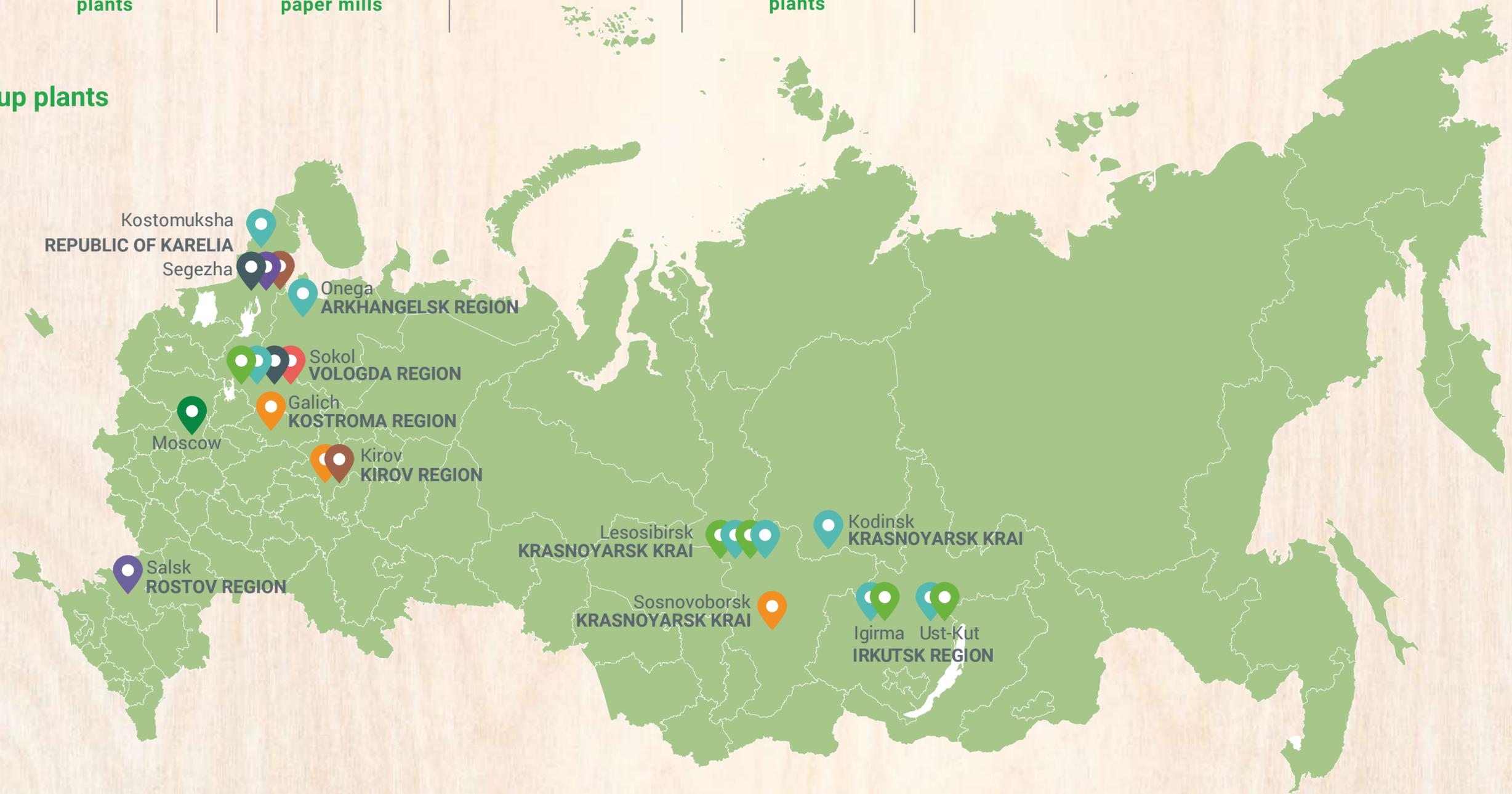


8  
wood processing  
plants



5  
pellet plants

## 22 Segezha Group plants



# QUALITY FOR UNIQUE SOLUTIONS

## BIRCH PLYWOOD

### SUCCESS FACTORS



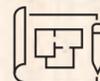
PROFESSIONAL TEAM



MODERN MANUFACTURING



HIGH QUALITY



INDIVIDUAL APPROACH



OWN RAW MATERIALS

Segezha Group is the largest wood processing group with a full cycle of its own logging operations as well as a focus on a wide range of high-tech products.

The company's development is focused on eco-friendly technologies for the deep wood processing and maximally waste-free use of raw materials.

**106,8**

billion rubles  
REVENUE (2022)

**24,7**

billion rubles  
OIBDA (2022)

**>94**

are covered by the  
company's own  
harvesting facilities

**50**

countries  
sales geography

**#3** in the world

for the production  
of large-size  
birch plywood



**>50** countries

sales geography

**Segezha Plywood**

**3** plants

**192** thousand m<sup>3</sup>

Production capacity **VYATSKY PLYWOOD MILL (VPM)**

**125** thousand m<sup>3</sup>

Production capacity **GALICH PLYWOOD MILL**

**30** thousand m<sup>3</sup>

Production capacity (including softwood plywood)  
**KRASFAN PLYWOOD MILL**

# COMPETITIVE ADVANTAGES OF SEGEZHA GROUP BIRCH PLYWOOD

## MEETS STANDARDS

- ✓ EPA TSCA VI
- ✓ EN 13986 CE mark
- ✓ ISO: 9001
- ✓ CARB
- ✓ ISO: 14001
- ✓ ISO: 38200
- ✓ ISO: 45001



**High level of strength characteristics**



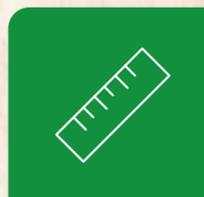
**Great strengthweight ratio**



**Safety**



**Plywood production to individual customer requirements**



**Dimensional stability**



**High quality of the sanded surface**



**Product research and development**

# APPLICATION OF BIRCH PLYWOOD

**CONSTRUCTION**  
monolithic and low-rise



**TRANSPORT**  
PASSENGER AND FREIGHT



**DESIGN**  
and small architectural forms



**FURNITURE**  
and floor coverings



# GENERAL SPECIFICATION OF SEGEZHA GROUP BIRCH PLYWOOD

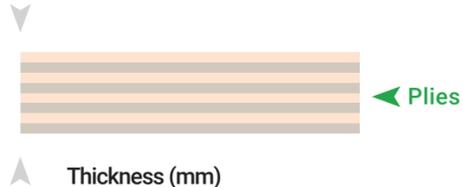
Type of veneer	100% birch
Types of plywood	Sanded or film faced plywood
Textures of coating	Smooth, Wire, Hexa. Other textures available upon request
Density of plywood	640-700 kg/m <sup>3</sup>
Sizes	4x8x4 1220x2440x1220, 1250x2500x1250 5x10 1500x3000, 1525x3050 4x10 1220/1250x3000/3050 5x8 1500/1525x2400/2440/2500 7x13 max. 2135x3965 Other sizes available upon request
Thickness	4–40 mm
Formaldehyde Emission Class	E 0,5

## SEGEZHA GROUP BIRCH PLYWOOD

is a wood panel 100% made of thin sheets of birch veneer. It is highly demanded all over the world due to its excellent strength and rigidity related properties, good resistance to humidity, nice and smooth face veneer.

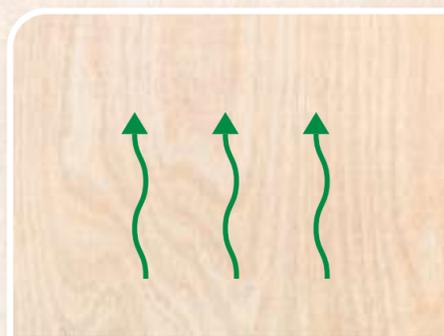
### THICKNESS OF SEGEZHA GROUP PLYWOOD

Plies	3	4	5	6	7	9	11	13	15	17	19	21	25	29
Thickness (mm)	4	5	6,0 6,5	8	9	12	15	18	21	24	27	30	35	40



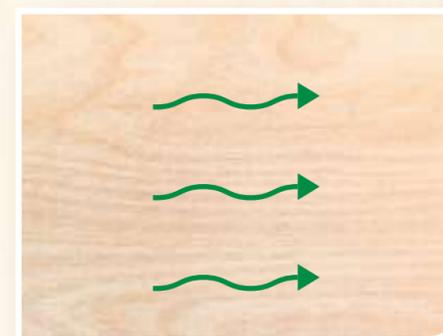
# TYPES AND GRADES OF SEGEZHA GROUP BIRCH PLYWOOD

## CROSS GRAIN PLYWOOD



**Cross grain plywood** is plywood in which the grain of the outermost plies is perpendicular to the longest side of the plywood sheet.

## LONG GRAIN PLYWOOD



**Long grain plywood** is plywood in which the grain of the outermost plies is parallel or nearby parallel to the longest side of the plywood sheet.

## GRADES OF FACE SIDE

I / E B S

High quality



**Practically without defects:** some healthy inter-grown knots up to 25 mm in diameter, insignificant brown veins and dropped out knots up to 5 mm in diameter are admitted.

II / B B



**Repairing of the surface is admitted.** Knots with size of more than 25 mm and visible defects are repaired with veneer patches.

III / C P



**Flat surface without restrictions** on discoloration and number of patches.

IV / C



**Defects of processing and structure of wood are admitted.** High-quality of agglutination is guaranteed.

Quality reducing

# PRODUCT RANGE OF SEGEZHA GROUP BIRCH PLYWOOD

## SG RAW

### Birch plywood

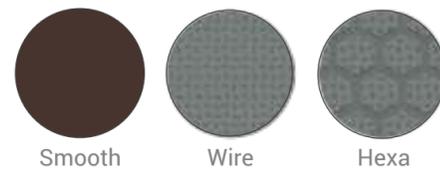
Sanded or long cross grain birch plywood, non-overlaid.  
Widely used in all spheres where the combination of **high strengths of material light weight is demanded**



## FILM FACED

### Laminated birch plywood

with phenolic film of 120–440 gm<sup>2</sup> density.  
Edges are sealed with water-resistant paint.  
Widely used in construction, SAF, transport.



## ECOFLOOR

Durable and eco-friendly base for parquet and engineered wood



 **Thickness tolerance**  
+/- 0.2 mm

 **Moisture content**  
6–9%

 **100% thickness control** of all products

 **Improved delamination resistance**

## MAXI SIZE

Maxi-format plywood made of single piece veneer

For commercial vehicles and trucks  
For mechanical engineering



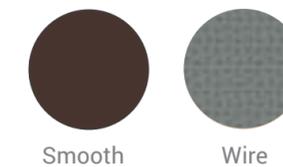
**Size:**  
2135x3965 mm



**Single piece board**



**Thickness:**  
6–40 mm for raw plywood  
6–35 mm for film faced plywood



Smooth Wire



Sanded

**Plywood grades:**  
B,S (I), BB (II) CP, WG (III), C (IV)

# PRODUCT RANGE OF SEGEZHA GROUP BIRCH PLYWOOD

## SAPPHIRE

Film faced high strength slip-resistant plywood for transport and construction



**Reinforced veneer configuration**



**Highly wear-resistant surface**



**Low formaldehyde emission**



**Improved slip resistance**



**High resistance to alkalis**



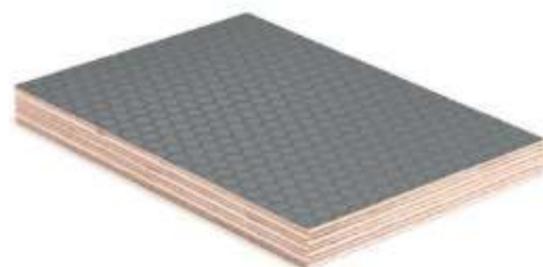
Hexa



Wire

## ANTHRACITE

Film faced plywood for floor-covering and wall decoration of commercial and trucks, warehouses



**Saturated Gray**  
Excellent decorative characteristics



**Alkali resistance**  
Easy cleaning with detergents



**Color stability and UV resistance**



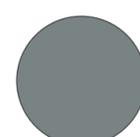
**50% lower water absorption\***  
\*compared to standard phenolic films



Гекса



Сетка



Гладкая

## SEGEZHA SOUND

Noise-insulating and vibration-absorbing plywood



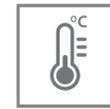
**Easy to process**  
when cutting and nesting



**Increases sound insulation and reduces vibrations**



**Does not emit toxic combustion products**



**Promotes thermal insulation**



Шлифованная



Гладкая



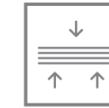
**Low weight and high strength**

## LNG

Plywood for gas tankers  
GTT certificates: MARK III, NO96, NO96 LO3/LO3+, NO96 SUPER+, GST.



**Retains strength and flexibility**  
in extreme conditions



**The highest quality**  
of inner veneer plies



**Resistance to extremely low temperatures**



**Cutting formats**  
according to individual specifications

# PRODUCT RANGE OF SEGEZHA GROUP BIRCH PLYWOOD

## FLEX PLY film faced F/BB and F/F, raw B/BB and BB/BB

### Film faced or sanded FlexPly plywood

- For radial concreting and non-standard formwork systems
- For interior and outdoor design solutions



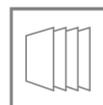
Smooth



Grade BB



Grade B



**Special arrangement of veneer plies**



**Cost and time saving** in concreting works.



**Special arrangement of veneer plies**



**Pure beauty of birch veneer**



**Elastic film, resistant to cracking**



**Adaptable to the required radius** directly at the construction site



**Interior and outdoor solutions**

## VULCAN

### Fire retardant plywood with increased fire resistance

- Ply-by-ply fire retardant treatment of veneer sheets at the initial stage of plywood production
- Preservation of fire retardant properties even in case of mechanical damage to the plywood surface.
- Fire retardants do not contain substances that are recognized as highly hazardous (SVHC \*) in accordance with REACH \*\*.



Без покрытия



Коричневая пленка



**Fire retardant treatment** of each veneer ply prior to pressing



**Uniform distribution of the fire retardant component** both over the entire surface and volume of plywood sheet



**After cutting, the edges are not required for additional fire retardant treatment**

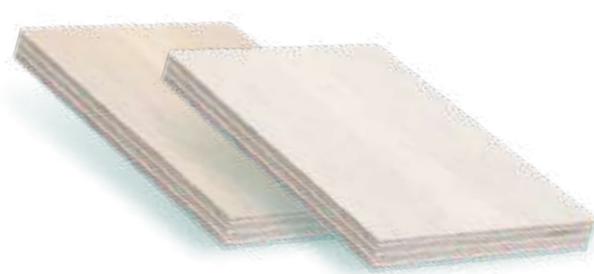
\* SVHC (Substances of Very High Concern) – hazardous substances with a particularly high risk for the environment, human health and life.

\*\* REACH is the European Union rules on Registration, Evaluation, Authorization and Restriction of Chemicals

# PRODUCT RANGE OF SEGEZHA GROUP BIRCH PLYWOOD

## CLEAR PLY

Plywood with transparent and semi-transparent coating



### TRANSPARENT

Transparent, almost invisible protective film preserving the natural texture of birch veneer.



### OPAL WHITE

Semi-transparent coating with a sheer white tint, visually brightening the interior.



**Wear-resistance**



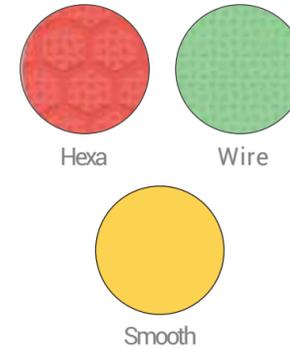
**Extra protection**



**Durability**

## CREATIVE

Color-coated finishing plywood



Yellow melamine film	Yellow phenolic film	Red melamine film	Green phenolic film	Green melamine film	Blue melamine film
Light brown melamine film	White melamine film	Black phenolic film	Gray melamine film	Light gray melamine film	Stone gray melamine film
					Dark gray melamine film



**13 colors to choose from**  
Phenolic or melamine



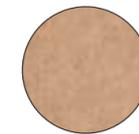
**Melamine films are UV resistant,**  
no fading or discoloration.



**Produced on short cycle**  
Excellent for decoration

## ART

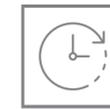
Plywood for painting



Smooth KRAFT  
for general use



Smooth Gray  
for most demanding color rendering



**Timesaving**  
No sanding, No priming



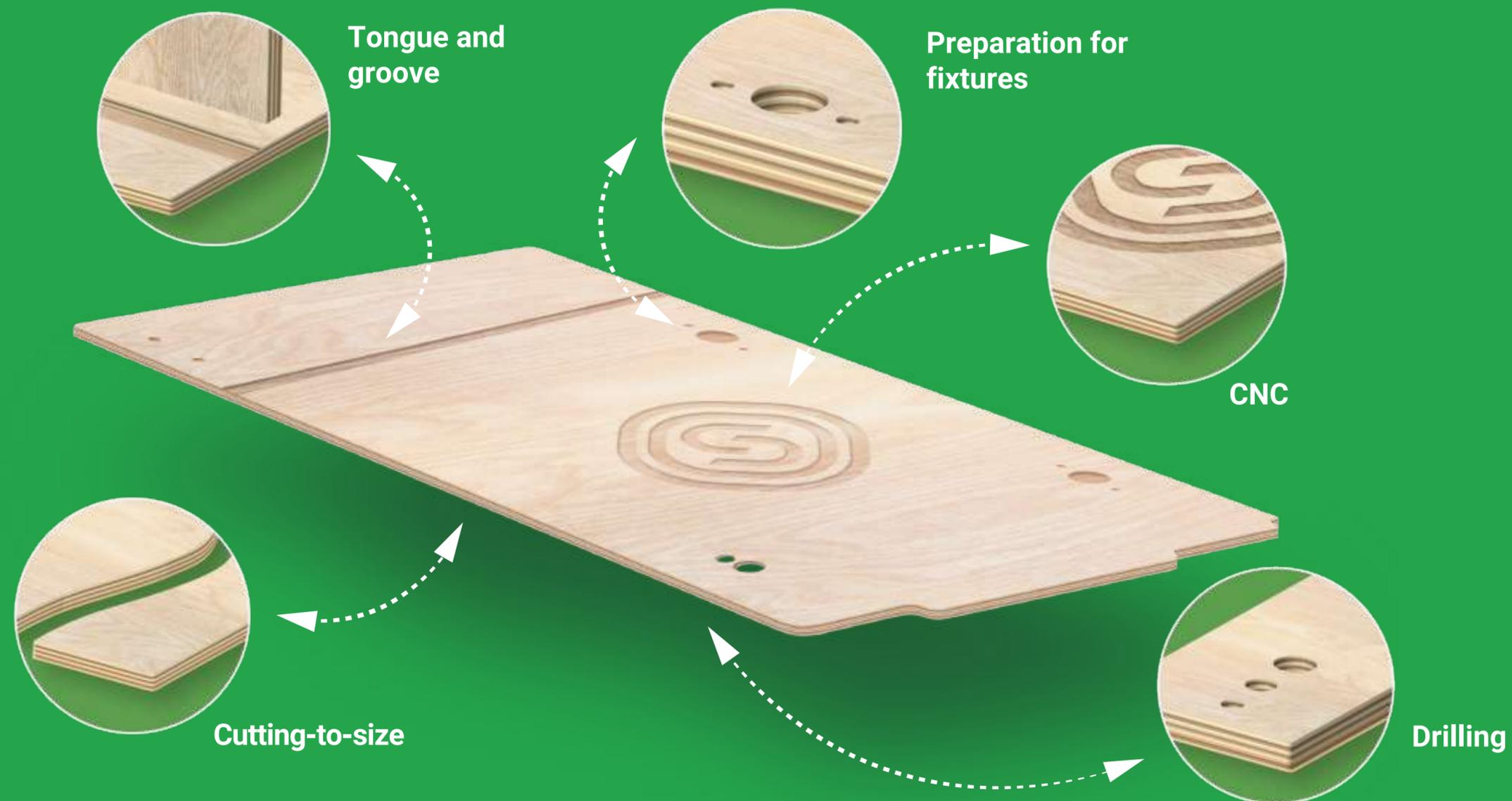
**Durability**  
Extra layer of film underneath



**Money saving**  
Increased strength, high-quality materials, minimal labour costs  
оптимизация затрат

# CUSTOMER SERVICE

Cutting and **CNC-processing** according to customer's designs allows to adapt the finished product to individual customer projects. **Digital software control** allows cutting plywood sheets in exact accordance with specified parameters. **The client receives** an adapted set of plywood sheets, ready or assembly into a single structure.



# SUSTAINABLE DEVELOPMENT STRATEGY

## SEGEZHA GROUP



**Risk management**



**Personnel care**



**Respect for human rights**



**R&D activity**



**Sound business practice and transparency**



**Environmental protection**



**Ethics, loyalty, honesty in relations with personnel, partners and counterparties,**



**Social investment**

**In 2021, Segezha Group approved the Strategy and Policy for Sustainable Development until 2025.**

**Included in the UN Global contract**



**Global Compact Network Russia**



**Innovative forestry business**



**Comfortable life in the forests and regions of Russia**



**Climate-Based Forest Management and Production**



**Responsible supply chain in the forest industry**



# TYPES OF PACKAGE OF SEGEZHA GROUP BIRCH PLYWOOD

## PARAMETER

## HEIGHT OF CRATE – 400 mm

### Размер 1220 – 2440 mm

thickness, mm	4	6	6,5	8	9	12	15	18	21	24	27	30	35	40
sheets per crate	100	65	60	50	44	33	26	22	19	16	15	14	11	10
volume of crate, m3	1,19	1,16	1,16	1,19	1,18	1,18	1,16	1,18	1,19	1,14	1,21	1,25	1,15	1,19
gross of weight a raw plywood crate, plywood-covered, kg	857	836	836	857	850	850	836	850	857	822	871	899	829	857
gross weight of a F/F plywood crate, plywood-covered, kg	863	842	842	863	856	856	842	856	863	828	877	905	835	863

### Размер 1250 – 2500 mm

thickness, mm	4	6	6,5	8	9	12	15	18	21	24	27	30	35	40
sheets per crate	100	65	60	50	44	33	26	22	19	16	15	14	11	10
volume of crate, m3	1,25	1,22	1,22	1,25	1,24	1,24	1,22	1,24	1,25	1,2	1,27	1,31	1,2	1,25
gross of weight a raw plywood crate, plywood-covered, kg	900	879	879	900	893	893	879	893	900	865	914	941	865	900
gross weight of a F/F plywood crate, plywood-covered, kg	906	885	885	906	899	899	885	899	906	871	920	948	871	906

### Размер 1525 – 3050 mm

thickness, mm	4	6	6,5	8	9	12	15	18	21	24	27	30	35	40
sheets per crate	100	65	60	50	44	33	26	22	19	16	15	14	11	10
volume of crate, m3	1,86	1,81	1,81	1,86	1,84	1,84	1,81	1,84	1,86	1,79	1,88	1,95	1,79	1,86
gross of weight a raw plywood crate, plywood-covered, kg	1335	1300	1300	1335	1321	1321	1300	1321	1335	1286	1349	1397	1286	1335
gross weight of a F/F plywood crate, plywood-covered, kg	1344	1309	1309	1344	1330	1330	1309	1330	1344	1295	1358	1407	1295	1344

### Размер 1500 – 3000 mm

thickness, mm	4	6	6,5	8	9	12	15	18	21	24	27	30	35	40
sheets per crate	100	65	60	50	44	33	26	22	19	16	15	14	11	10
volume of crate, m3	1,8	1,76	1,76	1,8	1,78	1,78	1,76	1,78	1,8	1,73	1,82	1,89	1,73	1,8
gross of weight a raw plywood crate, plywood-covered, kg	1292	1264	1264	1292	1278	1278	1264	1278	1292	1243	1306	1355	1243	1292
gross weight of a F/F plywood crate, plywood-covered, kg	1301	1273	1273	1301	1287	1287	1273	1287	1301	1252	1315	1364	1252	1301

### Размер 2135 – 3965 mm

thickness, mm	4	6	9	10	12	15	18	21	24	27	30	35	40	
sheets per crate	100	65	44	40	33	26	22	19	16	15	14	11	10	
volume of crate, m3	3,39	3,3	3,35	3,39	3,35	3,3	3,35	3,38	3,25	3,43	3,56	3,26	3,39	
gross of weight a raw plywood crate, plywood-covered, kg	2349	2349	2384	2408	2384	2349	2385	2401	2313	2437	2525	2319	2407	
gross weight of a F/F plywood crate, plywood-covered, kg		2364	2399	2422	2399	2364	2399	2416	2328	2452	2540	2334	2422	

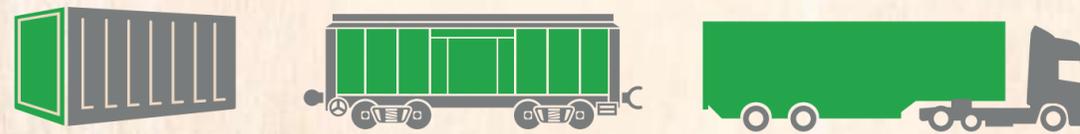


**SELECTION AND RESERVATION OF  
OPTIMAL ROUTES**



**RECEIPT OF  
ORDER**

**ALL KINDS OF SHIPMENTS**



**containers / wagons / vehicles /  
mixed transport**



**DELIVERY  
ON TIME**



**PREPARATION OF  
DOCUMENTATION**



## ADDRESS

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