

# ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "КВАНТ"

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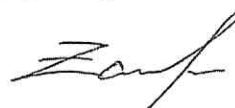
Согласовано:  
Директор ОП «Квант-Тула»



П.П. Беляков

« 25 » марта 2019 г.

Утверждаю:  
Директор ООО «Квант»



З.О. Собченко

« 25 » марта 2019 г.

## Детали профильные из древесины для строительства

Profiled details from wood and wood materials for building.  
Specifications

## Технические условия Technical specification ТУ 5361-001-36547375-2019

Разработаны:  
Рабочей группой ООО «Квант»

Введены впервые

Дата введения « 25 » марта 2019 г.

These specifications extend to profile details from wood for construction (further - details): boards and bars for a floor coverings, subwindow boards, plinths, platbands, hand-rail and an external and internal coverings.

**1. Basic parameters and dimensions**

- 1.1. The nominal sizes of cross section of details, their brands and materials have to correspond specified in tab. 1.
- 1.2. The lengths of the parts are set according to the specification as agreed upon by the manufacturer and the customer with a length cut at an angle of 90 or 45 °.  
In the absence of specifications, the parts are manufactured in the following lengths, mm:

subwindow boards      1300; 1450; 1600; 1900; 2200 (recommended dimensions )  
 other details          1500; 1800; 2000 (Additional sizes, under the order)  
 from 2000 and more

- 1.3. Maximum deviations from the nominal dimensions of details should not be more than (mm):

in length	±3,0 (for cut parts)
in width	±1,0
in thickness	±1,0
in height of groove and quarter	+ 0,5
	0
	0
in the thickness and width of the crest and quarter	- 0,5
for the remaining section sizes	±1,0

Plates on the faces of the mating parts must not exceed 0.5 mm.

- 1.4. The deviation from the perpendicularity of the sides of the parts should not be more than 1 mm in a section with a length of 100 mm.

Deviation from flatness (distortion) should not be more than:

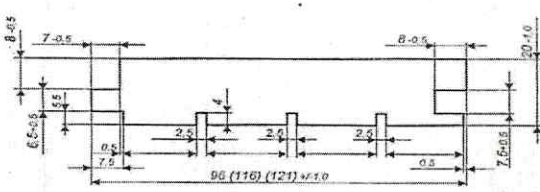
for the window sills and the handrails      1.5 mm per 1 m in length and 1 mm in width  
 for the floorboards                                      3.0 mm per 1 m in length and 2 mm in width

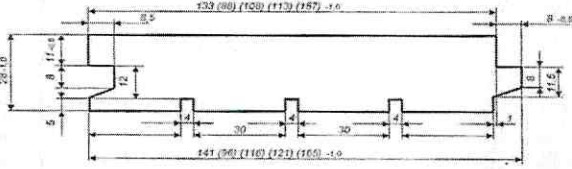
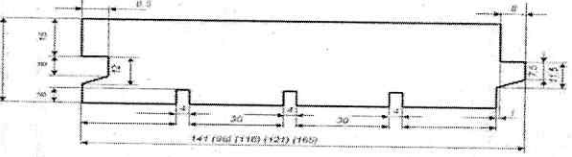
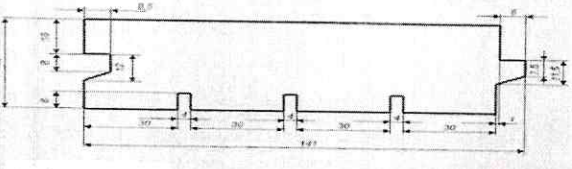
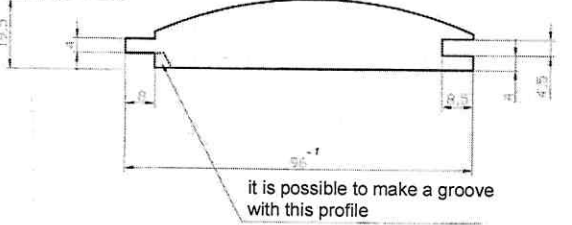
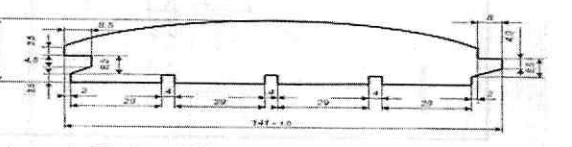
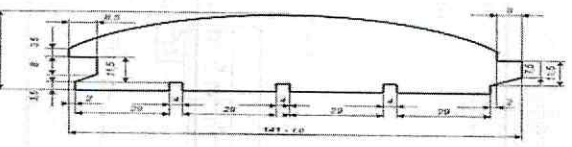
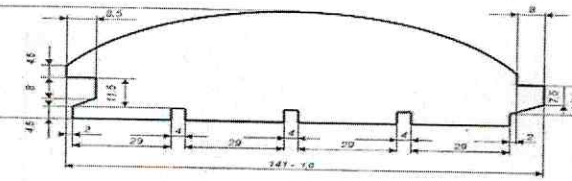
For skirting boards, platbands and skins, the deviation from flatness is considered acceptable if it is removed by slight pressing against an even surface.

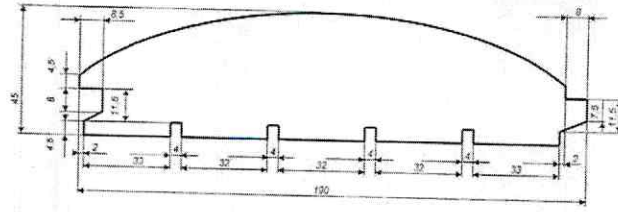
The deviation from the straightness of any edge of the part along the length of 1 m of the length should not be more than:

for handrails, window sills and flooring boards with a width of more than 96 mm of grade DP-36      2 mm  
 for other parts with a width of more than      3 mm  
 for skirting boards and casing with a width of less than      6 mm

table 1

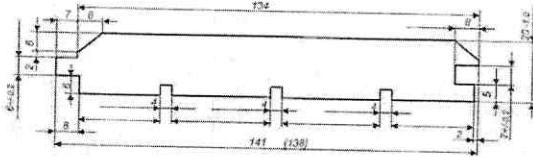
Name and nominal section size of the detail	Detail's brand	Code of detail	Detail's material
<p><b>1. Covering floorboards</b></p>  <p>* unspecified deviations in dimensions: +/- 0,25 mm                  two kerf are permitted on the not facing side</p>	<p>ДП-20</p>	<p>All-Russian Product Classifier 536171</p>	<p>Wood of coniferous and deciduous species, except a linden and a poplar</p>

Name and nominal section size of the detail	Detail's brand	Code of detail	Detail's material
 <p>flooring board 28*141</p>	ДП-28	All-Russian Product Classifier 536171	Wood of coniferous and deciduous species, except a linden and a poplar
 <p>flooring board 36*141</p>	ДП-36	All-Russian Product Classifier 536171	Wood of coniferous and deciduous species, except a linden and a poplar
 <p>flooring board 42*141</p>	ДП-42	All-Russian Product Classifier 536171	Wood of coniferous and deciduous species, except a linden and a poplar
<p><b>2. Loglap cladding board</b> (wooden finishing materials for wall)</p>			
 <p>it is possible to make a groove with this profile</p>	БлХ-20	ОКП 53 6179	Wood of coniferous and deciduous species, except a poplar
 <p>a loglap cladding board 28*141</p>	БлХ-28	ОКП 53 6179	Wood of coniferous and deciduous species, except a poplar
 <p>a loglap cladding board 36*141</p>	БлХ-36	ОКП 53 6179	Wood of coniferous and deciduous species, except a poplar
 <p>a loglap cladding board 45*141</p>	БлХ-45	ОКП 53 6179	Wood of coniferous and deciduous species, except a poplar



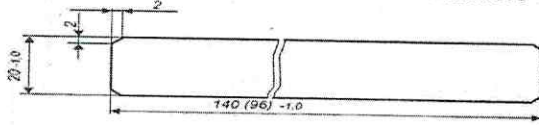
a loglap cladding board 45\*190

**2. Squared beam imitation**  
(wooden finishing materials for wall)

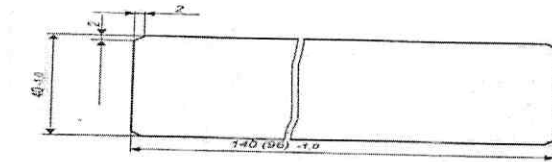


squared beam imitation 20\*141

**3. The four sides milled boards with chamfers**

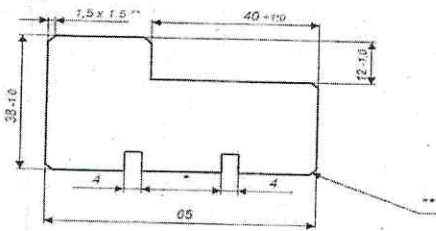


the chamfer's dimensions are no more than 2x2 mm, all sides are planed



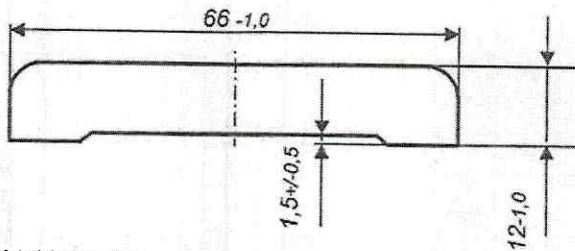
the chamfer's dimensions no more than 2x2 mm, all sides are planed

**3. A profiled beam for the door jamb**



1. the unspecified deviations in the size: +/- 0.5 mm
2. \* The distance between kerfes is at least 20 mm
3. \*\* the chamfers 1.5 x 1.5, 5 pcs. can be made in the form of shunting R = 2.0 mm

**4. Jamb**



Material: clean pine  
end-joining with tongue

БлХ-45

ОКП 53 6179

Wood of coniferous and deciduous species, except a poplar

ИБ-20

ОКП 53 6179

Wood of coniferous and deciduous species, except a poplar

ДФ-20

ОКП 53 6179

Wood of coniferous and deciduous species, except a poplar

ДФ-40

ОКП 53 6179

Wood of coniferous and deciduous species, except a poplar

ДК-65

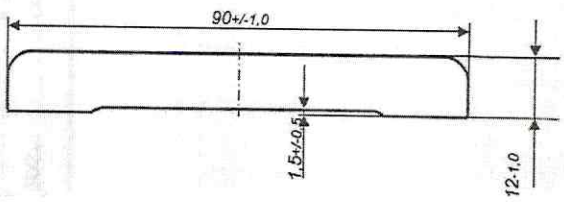
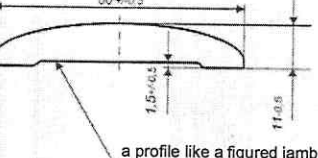
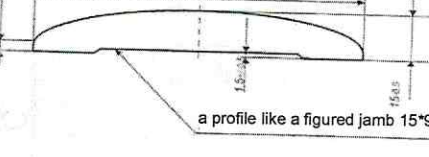
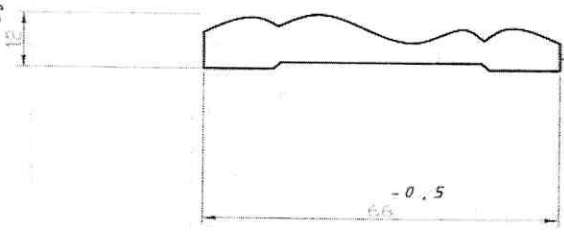
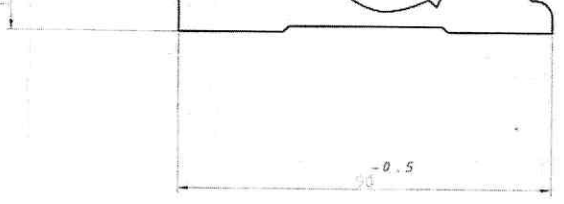
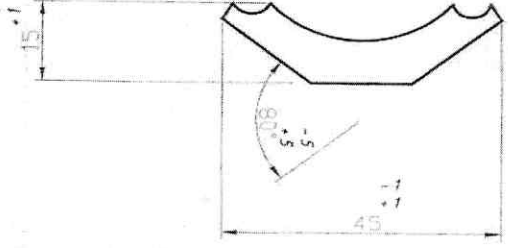
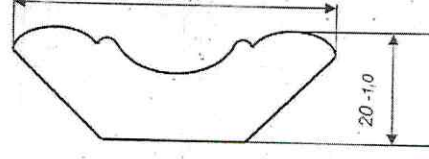
ОКП 53 6152

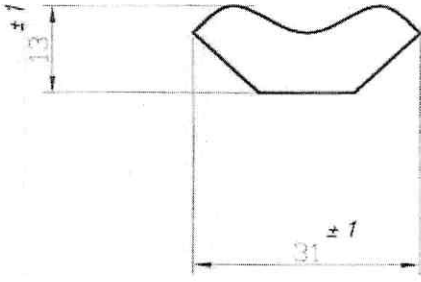
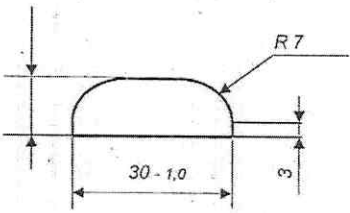
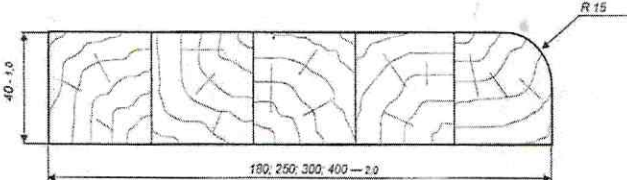
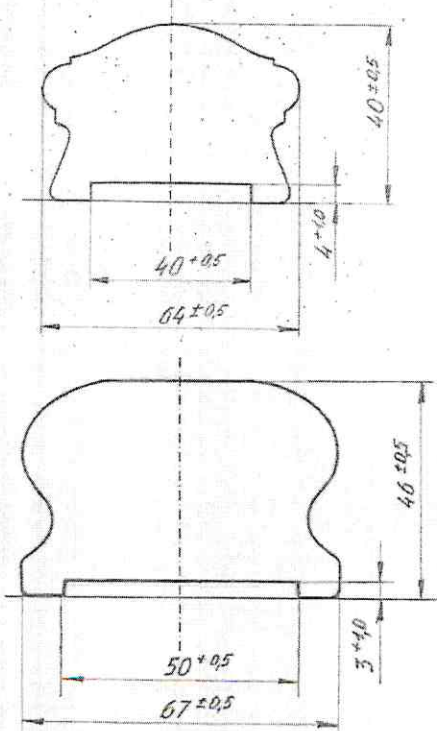
Wood of coniferous and deciduous species, except a poplar

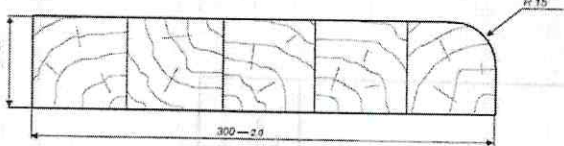
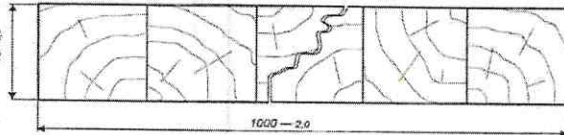
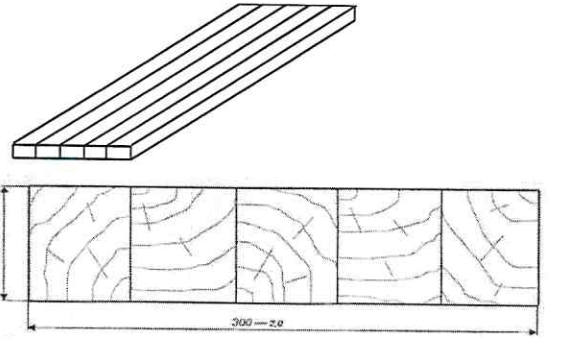
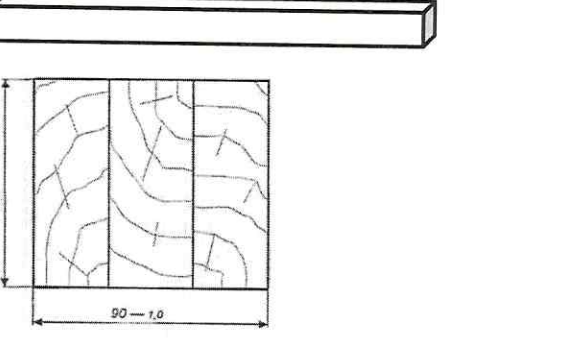



ИГ-66

ОКП 53 6172

Wood of coniferous and deciduous species, except a poplar

 <p>Material: clean pine end-joining with tongue</p>	<p>НГ-90</p>	<p>OKII 53 6172</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
 <p>Product: the jamb "sphere" 11x66</p> <p>Material: clean pine end-joining with tongue</p> <p>a profile like a figured jamb 12*66</p>	<p>HC-66</p>	<p>OKII 53 6172</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
 <p>a profile like a figured jamb 15*90</p>	<p>HC-90</p>	<p>OKII 53 6172</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
	<p>НФ-1-66</p>	<p>OKII 53 6172</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
	<p>НФ-1-90</p>	<p>OKII 53 6172</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
<p>5. Base board and quirk</p>			
	<p>ПЛ-1-15x45</p>	<p>OKII 53 6173</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
	<p>ПЛ-2-20x60</p>	<p>OKII 53 6173</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>

	<p>Г-1-13x31</p>	<p>OKII 53 6174</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
<p><b>6. Fillet (shaped batten)</b></p> 	<p>P-1-10x30</p>	<p>OKII 53 6175</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
<p><b>7. Window sills</b> length dimensions, mm. 1300;1450;1900;2000;2200</p> 	<p>ПД-1</p>	<p>OKII 53 6177</p>	<p>It is not allowed to mix species in one window board, except for pine, spruce, fir</p>
<p><b>8. Elements of wooden stairs.</b> <b>8.1. Rail</b></p> 	<p>П-1-40x64</p>	<p>OKII 53 6176</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>
<p>П-2-46x67</p>	<p>OKII 53 6176</p>	<p>Wood of coniferous and deciduous species, except a poplar</p>	

<p><b>8.2. Stair</b> (length dimensions mm.) 800;900;1000;1200</p> 	CT-1	OKII 53 6191	Wood of coniferous and larch species, except lime, aspen and poplar It is permitted while gluing use whole and length-joined beam
<p><b>8.3. Quarter landing stairs</b> 1000-1200 x 1000 x 40-50</p> 	III-1	OKII 53 6191	Wood of coniferous and larch species, except lime, aspen and poplar It is permitted while gluing to use whole and length-joined beam
<p><b>8.4. String</b> Dimensions in mm. (length, width, thickness) 2000-4000 x 00-400 x 40-60</p> 	T-1	OKII 53 6191	Wood of coniferous and larch species, except lime, aspen and poplar It is permitted while gluing to use whole and length-joined beam
<p><b>8.5. Support column</b> Dimensions in mm. (length, width, thickness) 3000x90x90</p> 	CO-1	OKII 53 6191	Wood of coniferous and larch species, except lime, aspen and poplar It is permitted while gluing to use whole and length-joined beam
<p><b>8.6. Wood turning products</b> <b>8.6.1. Intermedial column</b> Dimensions in mm. 1200x90x90 (length, width, thickness)</p>	CII-1	OKII 53 6190	Wood of coniferous and larch species, except lime, aspen and poplar
	CII-2	OKII 53 6190	It is permitted while gluing to use whole and length-joined beam
	CII-3	OKII 53 6190	Wood of coniferous and larch species, except lime, aspen and poplar
			

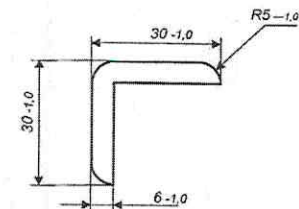
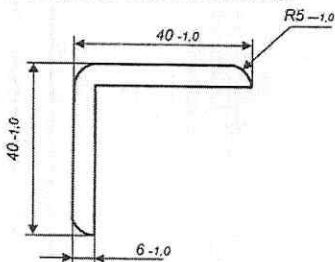
**8.6.2. Stair post**

Dimensions in mm. (length, width, thickness) 900x50x50



For all of the above, wooden turning products

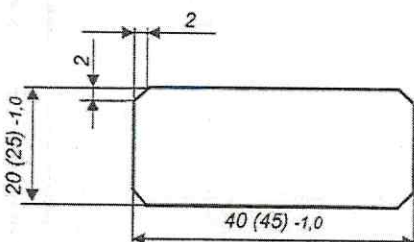
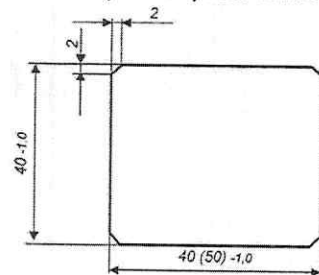
**9. Wooden external corner**



Product: corner 40x40; 30x30  
L=2500 mm,

Material: clean pine  
end-joining with tongue

**10. Beam, batten, four sides milled with chamfers**



B-1

OKII 53 6190

Wood of coniferous and larch species, except lime, aspen and poplar

B-2

OKII 53 6190

Wood of coniferous and larch species, except lime, aspen and poplar

B-3

OKII 53 6190

Wood of coniferous and larch species, except lime, aspen and poplar

It is permitted while gluing to use whole and length-joined beam

Y-1-40x40

OKII 53 6179

Wood of coniferous and larch species, except poplar

Y-2-30x30

OKII 53 6179

Wood of coniferous and larch species, except poplar

BΦ-40

OKII 53 6179

Wood of coniferous and larch species, except poplar  
End-joining along the length of the beam is permitted

PΦ-20

OKII 53 6179

Wood of coniferous and larch species, except poplar  
End-joining along the length of the beam is permitted



## Notes:

1. The unspecified radii of the sections of the parts should be 5 mm, chamfers 2x45 ° or 2x30 °.
2. Flooring boards of grade DP-20; DP-28 is used for residential buildings, brand DP-36; DP-42 is used both for residential and industrial buildings, gyms and other premises with increased load on the floors. At a floor of boards for a covering of floors of mark DP-20; ДП-28, the distance between the lags should not be more than 300 mm.
3. Window sills are made with a facet or rounding on the front edge. At the request of consumers, the window boards are manufactured with the chosen drums.
4. In the individual projects of residential and public buildings, as well as during reconstruction and repair, the use of parts of other profiles is permitted.
5. The boards, milled from four sides, with chamfers, DF marks, at the Customer's request, may have other dimensions of section, length, and additionally be shown by longitudinal shaped grooves from both faces of the front and non-face surfaces of the product. These parts are usually made of coniferous wood - larch and are used for laying floor coverings and pedestrian paths in the ambient air, outside any premises.

## 2. Technical Specifications

2.1. The parts must be manufactured according to the requirements of these Technical Specifications for process documentation approved with the established procedure.

### 2.2. Characteristics

2.2.1. In the wood parts are not allowed defects that exceed the standards indicated in the Table. 2.

Defects and defects of machining		GRADE A / B (THE 1 GRADE)	GRADE C (THE 2 GRADE)
1. <b>Knots</b>	Sound, intergrown, light, and dark, with fissure, face knot, edge knot, arris knot, single and branched knot	Permitted	Permitted
	Sound knot, partially integrow, light and dark, with fissure, face knot, edge knot, arris knot, single and branched knot	Permitted without limitation by number, with a diameter of up to 30 mm or in fractions of the width of the product, not more than 1/3	Permitted
	Sound knot, integrow partially integrow, light and dark knot	allowed 1 pc. on the product surface on one of the plates of the article not more than 1/3 of the thickness of the product without reaching the other layer, with a diameter (width) of not more than 30 mm, taking into account the integrity of the entire product	Permitted
	Decayed, unsound, tobacco (goose), face, edge and arris knot	Allowed with a diameter of up to 15 mm in an amount of 2 pcs. on the product	Permitted
	Not integrow, loose holes from loose knots	Allowed fell on the spike and the edge of the groove with a diameter of up to 20 mm, not more than 3 pcs. on the product, as well as the hole from the knot on the front surface of the part with a diameter of up to 10 mm, not more than 3 pcs. on the product	The holes from the dropped knots with a diameter of up to 30 mm are allowed, not more than 5 pcs. on the product
2. <b>Fissure</b>	Nee shake ,cup gall, traversing fissure, surface check traverse end face	Surface layered plots of length not more than 200 mm, end-to-end cracks of shrinkage up to 100 mm in length, stump cracks on the front surface up to 50 mm in length, 1 pc. on the product	Permitted without restriction provided the integrity of the entire product is preserved

3. Pith	Traverse the front surface	Allowed on the front surface of the product with a total length of up to 1/2 the total length of the product	Permitted
4. Resin pocket	On the front surface	Allowed without restriction on quantity, width up to 10 mm, length up to 50 mm	Permitted
5. Abnormal colors, rot and biological damage	Rot	Not permitted	
	Decayed heartwood blots and streaks	Allowed on the front surface in the form of bright spots and stripes, an area of not more than 20%, subject to the preservation of the structure and hardness of wood	A hard rot up to 1.3 surface areas is allowed
	Blue stain	Not permitted	Permitted
	Bore hole	Not permitted	Permitted
6. Handling damage	Wane	If there is no bark it is allowed: - for profile products having elements of the stud joints on the non-face surface and the surface to be closed during assembly, on the edge of the stud, provided that the quality of the assembly of these products is maintained; - for boards, bars and chutes routed with chamfers, a blunt wane traverse to the edge and a sides up to 2 mm, cleared from the bark with a length not exceeding 200 mm	blunt wane without length restriction is permitted
	Not planed surface	It is allowed to cover up to 20% of the surface of the face surface, on the edges of the crest is allowed without restriction on the length, provided that the quality of assembly of these products is maintained;	Permitted
	Shatter and shear	Allowed on the face of the separate, not deep shatter and shear, up to 2 mm in depth in an amount up to 2 pcs. Per meter. of the products	Permitted

## Notes:

1. The faces are the surfaces visible during operation.
2. A dull look in the boards and bars to cover the floors and plating is allowed from the face side up to groove, comb or quarter. The clearing must be cleared of the bark.
3. All of the above wood products can be produced as an Extra variety, i.e. free of any types of defects in wood and machining defects, hereinafter referred to as "products". Bezout products can be of two types:
  - Type I - solid wood products
  - Type II - wood products joined in length by a mini spike

## 2.2.2. The moisture content of the wood must be, %

operated inside the premises	12±3
operated outside the premises	15±3

According to the agreement with trade organizations, the moisture content of wood components sold in retail trade is allowed to reach 20%.

2.2.3. Parameter of roughness of milled surfaces of parts ( $R_{mmax}$ ) according to GOST 7016 should not be more than, $\mu m$ :	
under the transparent cover of the handrails	80
other parts	120
under opaque coating	120
non-face surfaces	500

2.2.6. Parts made of wood are made whole or glued along the length and cross-section. For bonding the parts along the length, a connection with a toothed spike length of up to 10 mm is used.

2.2.7. Window sills PD-1 are made glued along the width. The width of the glued workpieces should not be more than 100 mm.

2.2.8. Adhesive joints in detail should be performed on adhesives not lower than average water resistance according to GOST 17005.

2.2.9. The strength of adhesive joints should be not less than:

to shear along the fibers	4 MPa
on bending with a jig	24 MPa
on an uneven separation:	
sheet facing materials	1,50 kH/m
polyvinylchloride decorative film	1,8 H/sm

2.2.10. The parts are delivered without finishing.

2.3. Packing and marking

2.3.1. The parts must be packed in transport bags or bundles. At the request of the consumer, parts are allowed not to be packed.

2.3.2. The formation of transport packages must comply with GOST 21100.

The mass of the transport package is determined depending on the mode of transport and the technical characteristics of the loading and unloading means.

Packs are formed from parts of the same brand, cross-section and length.

The packaging must ensure the density and safety of the parts during loading, transportation and unloading.

2.3.4. Each package must have a label that indicates:

- name or trademark of the manufacturer;
- conventional designation of parts;
- number of parts by brand, cross-section, length in meters (cubic meters, square meters) or pieces;
- date of manufacture.

2.3.5. Transport marking - according to GOST 14192.

### 3. Acceptance rules and methods of control

3.1. The length, width and thickness of the parts are measured with metal rulers in accordance with GOST 427, metal roulettes in accordance with GOST 7502, with limit calipers in accordance with GOST 15876, with calipers in accordance with GOST 166, with gauging gauges according to GOST 162.

The width and thickness are measured along the ends and in the middle of the length of the parts.

3.2. The deviation from the perpendicularity (straightness) of the sides of the parts is determined by the verification angles in accordance with GOST 3749, the verification rulers in accordance with GOST 8026 and probes according to GOST 8925 by measuring the maximum gap.

Deviation from flatness is determined with the help of a set of probes by measuring the largest gap between the surface of the inspected article and the reference surface with a deviation from flatness of not more than  $\pm 0.1$  mm / m.

3.3. The wood species is determined visually. Defects of wood and processing are assessed and measured in accordance with GOST 2140. The size of the knot is determined by the smallest diameter of the cut of the knot.

3.4. The moisture content of the wood is determined in accordance with GOST 16588.

3.5. The surface roughness of the parts is determined according to GOST 15612 or by comparison with reference samples.

3.6. The strength of the adhesive bonding to the cleaving along the fibers is determined in accordance with GOST 15613.1.

3.7. The strength of the serrated adhesive joint in the case of static bending is determined in accordance with GOST 15613.4.

#### 4. Transportation and storage

1. The details are transported by all means of transport in accordance with the rules for the carriage of goods operating on this mode of transport.
- 4.2. The details should be sorted by brands, cross-sections, lengths and the degree of factory readiness of the parts.
- 4.3. When loading, transporting, unloading and storing, it must be insure the details safety (protection from mechanical damage, moistening, contamination). The storage conditions should ensure the normalized moisture content of the wood.

#### 5. Indicators and classification of fire hazard materials (wood products).

The fire hazard of building materials from wood is characterized by the following properties:

- 1) combustibility;
- 2) flammability;
- 3) the ability to spread the flame over the surface;
- 4) smoke generation ability;
- 5) toxicity of combustion products.

Wood, combustible material. Operating humidity 8-14%; density depending on the wood species 420 - 710 kg / m<sup>3</sup>; thermal conductivity depending on the wood species 0.29 - 0.37 W / m<sup>2</sup>; The heat of combustion is 18731 - 20853 kJ / kg. The flammability index is more than 2.1; the ignition temperature is 237 - 255 degrees Celsius; autoignition temperature 375 - 399 degrees C; prone to thermal spontaneous combustion; the temperature of smoldering during self-ignition is 275 - 295 degrees C: smoke generation factor 717 m<sup>2</sup> / kg at a temperature of 400 degrees Celsius; toxicity of combustion products 35.5 +/- 2.7 g / m<sup>3</sup> at a temperature of 400 degrees C. Protect from the action of a heating source with a temperature above 80 degrees C.

Classification of timber materials by fire hazard:

- 1) combustibility - highly combustible (Г4)
- 2) flammability - highly flammable (B3)
- 3) the ability of flame propagation over the surface - highly propagating (PII4)
- 4) smoke-forming ability - with high smoke-forming ability (Д3)
- 5) toxicity of combustion products - low-risk (T1)

#### 6. Manufacturer's guarantee

The manufacturer guarantees that the parts comply with the requirements of these Technical Conditions if the consumer observes the conditions of transportation and storage.

## 7. Normative technical documents

The designation of the normative document	Item number
GOST 8242-88	
GOST 162-90	4.1
GOST 166-89	4.1
GOST 427-75	4.1
GOST 515-77	2.3.3
GOST 2140-81	2.2.1, 4.3
GOST 3560-73	2.3.2
GOST 3749-77	4.4
GOST 7016-82	2.2.5
GOST 7502-80	4.1
GOST 8026-92	4.2
GOST 8925-68	4.2
GOST 14192-77	2.3.5
GOST 15140-78	2.2.12, 4.11
GOST 15612-85	4.5
GOST 15613.1-84	4.6
GOST 15613.4-78	4.7
GOST 15867-79	4.8
GOST 15876-90	4.1
GOST 16588-91	4.4
GOST 17005-82	2.2.8
GOST 17617-72	2.3.2
GOST 18321-73	3.3
GOST 21100-93	2.3.2
GOST 23616-79	3.2
GOST 24404-80	2.2.11, 4.9
GOST 25885-83	4.8
Φ3 №123-Φ3	"Technical regulations on fire safety requirements"
CPII 12.13130.2009	