Rough lumber of coniferous species. Interpretation of Russian export grading rules in accordance to GOST 26002-83

1. Dimensions:

1.1 Sawn lumber is subdivided:

By thickness:	Thin	16 - 22 mm
	Medium	25 - 44 mm
	Thick	50 - 100 mm
By width:	Narrow	75 - 125 mm
	Wide	150 mm and wider
By length:	Short	450 - 2400 mm
In the second	Long	2700 - 6300 mm

- 1.2. Nominal thickness and width are guided by standard GOST 24454-80, where thickness of the lumber shall not exceed 100 mm.
- 1.3. Lengths of lumber are ranged:

from 1500 mm and up with a step of 300 mm;

from 450 mm up to 1350 mm with a step of 150 mm;

Lumber with length from 450 mm up to 1350 mm is manufactured by an order of State foreign trade organization.

- 1.4. Nominal dimensions of lumber are established for the wood of MC (moisture content) 20%. With MC of more or less than 20%, actual thickness and width of lumber shall be more or less than nominal dimensions in correlation with shrinkage value according to standard GOST 6782.1-75.
- 1.5. Limiting deviations from nominal dimensions of lumber shall not exceed in mm:

By length	+ 25	- 12
By width	+ 3	- 2
By thickness:		
thickness less than 50 mm	+ 2	- 1
thickness 50 mm und up	+ 3	- 2

Volume of lumber with maximum admitted deviations shall not exceed 25% of total volume of lumber.

- 2. Technical Requirements
- 2.1. Lumber shall be manufactured in accordance to the requirements of the present technology standard for the wood of Pine, Spruce, Fir and Larch species.
- 2.2. Lumber is subdivided by quality of the wood and by its machining into 1, 2, 3, 4 and 5 grades.
- 2.3. Lumber is arranged:

By dimensions;

By species;

By grades:

U/S Unsorted (combining 1, 2, 3 grades together, the percentage correlation of which shall correspond to the natural recovery of lumber while sawing);

4 grade separately;

5 grade separately;

Up to 15% of Fir is admitted in a load of Spruce lumber.

- 2.4. MC moisture content of lumber shall not exceed 22%. Variation of the moisture content is admitted by custom orders.
- 2.5. Antiseptic treatment of lumber is per standard GOST 10950-78.
- 2.6. Quality of the wood and manufacture of lumber shall correspond to the requirements specified in tables 1-3.

Pine and Larch Lumber

Table 1

Name of the state					rms of woo		The second second			(17677a-1076		
Wood defects	1 gra		2 gr		3 gra			rade	5 gr			
	size	number	size	number	size	number	size	number	size	numbe		
s ergrown knots Round and Oval Face	Admitted of length of lu		e face in d	imensions	s in mm an	d number	in pieces	s on averag	ge per 100	00 mm		
		NAME OF TAXABLE PARTY.		In t	hick wide s	awn lumb	er					
				1111	28-38	2	,C1					
	13-17	1	18-27	1	over 38 up to 50	1		Admi	tted			
				1,	thick narr	ow lumbo						
		-		- !!	25	2						
	10-14	1	15-24	1	-			Admi	ittod			
	10-14	T.	15-24	111	over 25 up to 38	2		Admitted				
				In	medium w		er					
	1000	-	MANUSCH COM		19-25	3						
	10-14	1	15-18	1	over 25 up to 38	1		Admi	tted			
	In medium narrow lumber											
					19-25	3						
	10-14	1	15-18	1	over 25 up to 32	1		Admitted				
					In thin l	umber						
		19-22 2	2									
	10-14	1	15-18	1	over 22 up to32	1		Admi	itted			
			In lui	mber of 75	mm wide	knots sha	all not ex	ceed:				
	1/4	4		/3	1/			2/3	Adm	itted		
					of face				, (4)	ittou		
					April Diego Grant	& 2 grade	es is adn	nitted twice	more and	in in		
Edge & corner	Admitted of	on each e	edge with	dimensior	ns in mm ai	nd numbe	r in piece	es for entire	length of	f a piece		
AND THE SECOND CONTRACTOR OF THE SECOND CO.					In thick I							
			7-12	3-5	13-16	5-8						
	up to 6	3-4			over 16 up to 25	3-5		Admi	itted			
	up to o	5-4	13-19	3-5	over 25	3		Adm	itted			
					up to 32							
					In medium	lumber:						
			7-12	2-4	13-16	2-4						
					over 16							

		6.	13-19	2-3	up to	2-4			
					3/4 of thickness				
		<u></u>				lumber:			
				f ·	up to	T TIDOL			
	up to 6	1-2	7-10	1-2	2/3 of thickness	2		Adm	nitted
1.1.1.3. End		Adm	itted on ea	ach end w	ith dimens	sions in m	m and nu	mber in pie	eces:
		Not a	dmitted		25	1		Adm	nitted
1.1.2. Spike, branchy including appeared on			side face o						wn round and oval
corners, and edge		Dimensio	n of knots	in mm by	maximum	diameter	is admitte	ed of not n	nore than:
	3	8	5	50			adm	itted	
				Appe	earing of k	nots on e	dges:		
			Admit	ted with a	ppearing of	on edge o	f not more	than:	
				14		/3			
	Not ac	Imitted		the		the		Adm	nitted
	1			ness		ness	<u> </u>		
Wood defects	1	a da			rms of wo				Farada
vvood delects	size	ade number	size	rade number	size	rade number	size	rade number	5 grade size number
1.2 Engaged sound						1			
1.2. Encased sound, unsound, decayed, rotten			tside face es in aver						dimensions in mm
1.2.1. Face	Girla Hairin	John Pior			k wide sav			-	
				III UIIO	25	1	63	1	ſ
		Not a	dmitted		Through		unsound rotten	decayed	
					Not ac	dmitted	25	1	1
			Ir	n thick nar	row lumbe	er			1
					19	1	50	1	1
		Service on the service			Through	the board	unsound	decayed	1
		Not a	dmitted		Tillough		rotten	accuyed	
					Not ac	dmitted	25	1	1
			In	medium	wide lumb	Contest of Asset		- 75	1
			"	mediam	19	1	50	1	Admitted
	Not admitted								The state of the s
					Through		rotten	decayed	Knot holes shall
					Not ac	dmitted	19	1	not exceed 32 mm
			In	medium n	arrow lum		10		in narrow and 38 mm in wide sawn
				mediam n	13	1 1	38	1	timber (lumber)
								_	
		Not a	dmitted		mough		unsound rotten	decayed	
					Not ac	dmitted	19	1	1
				In thin	lumber		10		1
						Only	sound		1
							38	1	1
							Through	the board	
		Not a	dmitted		13	1		decayed	
					13	1		otten	
							19	1	1
	-	In lumb	er of 75 m	m wide o	f all thickn	ess the kr	1073777		exceed.
		7.447	and the same of th	iiii wide o	V-	/3		/2	2/3
		Not a	dmitted					of face	
1.2.2. Edge and corner, including knot holes	Admitted	d on each	edge with	dimensio	ns in mm lum		ımber in p	ieces on t	he entire length of
						lumber			
		Not a	dmitted		13	1-2	38	2-4	Admitted
					In mediu	m lumber			
						d only	7.2 <u> </u>		
		Not a	dmitted		10	1-2	32	2-4	Admitted
I					In thin	lumber			

ľ										
			Sound only							
	Not a	dmitted	6 1-2		2-4	Admitted				
		Kn	ot holes not more	e than:						
			Admitted with	depth not me	ore than:	Admitted				
			In thick - 1/4	thickness						
	Not a	dmitted	In medium - 1/3	lumber w showing						
	1,0,0		In thin - 1/2	outside f	ace not	Admitted				
			Of thickness of	—more tha	an 2,0 mm					
			Of thickness of lumber							
WEST OF THE SE			rms of wood defe	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN	The state of the s					
Wood defects	1 grade	2 grade	3 grade		rade	5 grade				
100 5-4	size number	size number	size numb	oer size	number	size number				
1.2.3. End 2. Checks		Not admitted			Adm	ittea				
2.1. Side checks 2.1.1. Face checks 2.1.1.1. Non through		with extent of not n	(Victoria de la Constitución de							
	1/3	1/2	2/3	Admitte		tions of integrity of				
		Of the length of lumb	With appearing one end up to 1/		lum	ber				
	Without appearing	on ends and edges	of thickness without exiting from end to edge	e.						
2.1.1.2. Through		int.								
2.1.1.2.1. Through without appearing on the end, including ring shakes		Admitted without ex outside and inside not mo								
	Nick advantage	In thick	lumber	- Admitte	d by condi	tions of integrity of				
	Not admitted	1/5 (1/2)	1/3 (2/3)		lum					
			th of a piece							
			m lumber							
		1/10 (1/4)	1/5 (1/3)	_						
		Of the leng								
	In thin lumber									
	Ohaali aimaa aha		Not admitted	a face, these	s in large des	to solute to incide				
Note:	Check sizes, sho	own without brackets	face.	e race, mose	e in bracker	is relate to inside				
2.1.1.2.2. Through	<i>P</i>	Admitted with extens	ion from each en	d of not mor	e than, mn	n:				
appearing on end	30	40	50	Width	of lumber	600				
2.1.2. Edge checks			Admitted:							
	Shallow, length no	t more than 40 mm	Not crossing corners of edg		Adm	itted				
		Limiting no	rms of wood defe		es					
Wood defects	1 grade	2 grade	3 grade	4 g	rade	5 grade				
	size number	size number	size numb	oer size	number	size number				
2.2. End checks				1900						
2.2.1. Heart checks	Heart	checks	Admitted in thick lumber on one e with length exter not more than 1/ of width of a pied	end nt /2	Admitted					
2.2.2. Ring shakes	Not a	dmitted	Admitted with diameter of not more than, mm: In lumber with width	Admitte	Admitted by conditions of integrit					

3.1. Slope of grain Admitted, if grain deviation from straight direction per 300 mm of length of lumber compose not more than, mm. 10 19 25 3.2. Compression wood Admitted without splits on ends In thick lumber Admitted non through with width not more than, mm. Admitted non through with width not more than, mm. 3 1 3 6 8 With length up to, mm. 2-3 4-6 8 In medium and thin lumber Admitted non through with width not more than, mm. 3 3 6 8 In medium and thin lumber Admitted non through with width not more than, mm. 3 3 6 8 In medium and thin lumber Admitted non through with width not more than, mm. 3 3 6 8 With length up to, mm. 2-3 4-6 8 In medium and thin lumber Admitted non through with width not more than, mm. 3 3 6 8 With length up to, mm. 2-3 4-6 8 Without appearing on edges and ends - With length up to, mm. 2-3 3 4-6 5 Without appearing on edges and ends - Indicated amount of pitch pockets is admitted in less numbers on outside face and more numbor of outside face. On ends Admitted Not admitted Not admitted Not admitted 1/2 of norm for outside face On ends Admitted in lumber with width up to 3 mm, length up to 100 outside face on many length up to 100 outside face. Limiting norms of wood defects by grades 1 grade 2 grade 3 grade 4 grade 5 grade size number siz						mm – 19 8mm – 25					
model engith of lumber compose not more than, min. 10	3. Defects of wood structure										
3.2 Compression wood 3.3 Pitch pookets On faces In thick lumber Admitted without spits on ends On faces In thick lumber Admitted non through with width not more than, mm: 3	3.1. Slope of grain							Adm	itted		
Admitted non through with width not more than, mm: 3 3 6				-		5					
In thick lumber Admitted not through with width not more than, mm: 3		Admit	THE RESERVE TO SHARE THE PARTY OF THE PARTY	THE RESERVE OF THE PARTY OF THE	ends			Adm	itted		
Admitted non through with width not more than, mm: 3	3.3. Pitch pockets			The state of the s							
With length up to, mm. 75			The state of the s	ILLINOS VIDE DE LE COMPONICION IN							
With length up to, mm: 100			rough with	width not							
On each face in amount in pieces of not more than: 2-3						5					
On each face in amount in pieces of not more than: 2-3											
Admitted Admitted Admitted Admitted Admitted											
In medium and thin lumber Admitted non through with width not more than, mm: 3			amount i	n pieces o	f not more	than:					
Admitted non through with width not more than, mm: 3		2-3	4	-6	8	3					
With length up to, mm: 25						Adm	itted				
With length up to, mm: 25		Admitted non the	n, mm:								
25		10/46		100	/	6					
On each face in amount in pieces of not more than: 2-3											
Note: Consider a mount of pitch pockets is admitted in less numbers on outside face and more number on inside face.						-					
Note: Indicated amount of pitch pockets is admitted in less numbers on outside face and more number on inside face. On edges					f not more	than:					
Indicated amount of pitch pockets is admitted in less numbers on outside face and more number on inside face. On edges Admitted Not admitted I/2 of norm for outside face On ends Admitted in lumber with width up to 3 mm, length up to 100 mm in amount up to 4 pieces on each edge Admitted in lumber with width up to 3 mm and length up to 1/3 of width of lumber Wood defects 1 grade 2 grade 3 grade 4 grade 5 grade size number size		2-3	3	-4		5					
On edges Not admitted		Without appearing	on edges	and ends		-					
Not admitted Admitted in amount up to 4 pieces on each edge Admitted in lumber with width up to 3 mm and length up to 1/3 of width of lumber Limiting norms of wood defects by grades Limiting norms of wood defects by grades 1 grade 2 grade 3 grade 4 grade 5 grade 3.4. Pith Admitted in lumber of over 25 mm thick (without ring shakes and checks) With extent up to 1/2 of length of lumber appearing on one end at distance not more than 1/6 of thickness from thickness from thickness from thickness from linside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on one outside face. In a load of lumber of 3 grade not more than 30% of boxed heart is admitted	Note:		f pitch poo	ckets is ad	mitted in I	ess numb	ers on ou	itside face	and more	numbe	
Not admitted Not admitted in lumber of 3 grade not more than 30% of boxed heart is admitted			On e								
Not admitted 1/2 of norm for outside face 1/2 of length of lumber appearing on one end at distance not more than 1/6 of than 1/6				Adm							
Not admitted 1/2 of norm for outside face Mainted											
On ends Admitted in medium and thin lumber with width up to 3 mm and length up to 1/3 of width of lumber Wood defects 1 grade 2 grade 3 grade 4 grade 5 grade size number s		Not admitted	1/2 of r	norm for							
Not admitted Not admitted Admitted in medium and thin lumber with width up to 3 mm and length up to 1/3 of width of lumber		Control Carlotter Carlotter	A STATE OF THE PARTY OF THE PAR								
Not admitted Admitted in medium and thin lumber with width up to 3 mm and length up to 1/3 of width of lumber Size number size size number size number											
Not admitted Not admitted Not a			On ends						itted		
Not admitted No											
Not admitted lumber with width up to 13 mm and length up to 1/3 of width of lumber Wood defects 1 grade 2 grade 3 grade 4 grade 5 grade size number											
Wood defects Size number size number		A Committee of the Comm	2000 2000 000		lumber with width up to 3 mm and length up to 1/3 of						
Limiting norms of wood defects by grades Size number Size Size Size Size Size Size Size		Not ac	dmitted								
Wood defects 1 grade 2 grade 3 grade 4 grade 5 grade size number of over 25 mm thick (without ring shakes and checks) With extent up to 1/2 of length of lumber appearing on one end at distance not more than 1/6 of thickness of timber than 1/6 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. Not admitted In a load of lumber of 3 grade not more than 30% of boxed heart is admitted											
Size number size numbe					width of lu	umber					
size number size n		1	L	imiting no	rms of wo	od defects	by grade	es			
Admitted in lumber of over 25 mm thick (without ring shakes and checks) With extent up to 1/2 of length of lumber appearing on one end at distance not more than 1/6 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted	Wood defects	1 grade	2 g	rade	3 gr	ade	4 g	rade	5 g	rade	
Admitted in lumber of over 25 mm thick (without ring shakes and checks) With extent up to 1/2 of length of lumber appearing on one end at distance not more than 1/6 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted		size number	size	number	size	number	size	number	size	numb	
With extent up to 1/2 of length of lumber appearing on one end at distance not more than 1/6 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner	3.4. Pith										
1/2 of length of lumber appearing on one end at distance not more than 1/6 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted											
lumber appearing on one end at distance not more than 1/6 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on one end at distance not more than 1/4 of thickness from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. In a load of lumber of 3 grade not more than 30% of boxed heart is admitted											
on one end at distance not more than 1/4 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted											
distance not more than 1/4 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. In a load of lumber of 3 grade not more than 30% of boxed heart is admitted					Adm	itted		Adm	itted		
than 1/6 of thickness of timber from inside face. Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. In a load of lumber of 3 grade not more than 30% of boxed heart is admitted		The state of the s	CALL TO SOME STREET, S		William William	- (ACC 1850)K					
Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted		than 1/6 of	thickness	from							
Admitted in lumber of 25 mm thick and thinner Admitted attached to inside face with appearing on outside face. Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted			inside fac	ce.							
Not admitted Not admitted Not admitted Not admitted Admitted attached to inside face with appearing on outside face. In a load of lumber of 3 grade not more than 30% of boxed heart is admitted		from inside face.									
Note: Admitted attached to inside face with appearing on outside face. In a load of lumber of 3 grade not more than 30% of boxed heart is admitted			Adı	mitted in lu	mber of 2	5 mm thic	k and thi	nner			
Not admitted to inside face with appearing on outside face. Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted				11110							
Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted		100	lander of		100000	See Market See See See			24 - 1		
Note: In a load of lumber of 3 grade not more than 30% of boxed heart is admitted			Not admitted		and the second second second second			Adm	iitted		
In a load of lumber of 3 grade not more than 30% of boxed heart is admitted		Not ac	arrinte G								
3.5. In bark (Bark pockets) Admitted on faces Admitted up to 50	Note:	Not ac									
	Note:			r of 3 grad	outside fa	ice.	% of boxe	ed heart is	admitted		

	Not ac	lmitted	non through not more than 25 mm wide in amount of 1 piece up to 75 mm long and up to 3 pieces with length up to 50 mm; On edges 2 pieces up to 2 mm wide, not more than 15 mm long; not admitted on ends.	thin lumber up to 175 mm long.	Admitted
3.6. Pitch & Pitch Streaks	Not admitted		s and edges in form and streaks	Admi	itted
4. Fungal defects	- 1	Ol opoto	and on cano		
4.1. Fungal heartwood stains (streaks)	Not ac	lmitted	Admitted in thick lumber on face or edge without appearing on ends up to 1/5 of width and length of a piece. Not admitted in medium and thin lumber	Admitted on faces and edges up to 1/2 of width and length of lumber, admitted showing on end with covering of not more than 10% of end's area.	Admitted
4.2. Light fungal sap stains and mold					
4.2.1. Surface	Not ac	lmitted	and edges up to 2	shape of spots and steaks.	Admitted
4.2.2. Deep	Not ac	lmitted	mm deep in shape of spots and streaks with total	Admitted on faces and edges up to 2 mm deep in shape of spots and streaks with total area of covering of not more than 50% of area of one face and edges. With covering of not more than 10% of end area.	Admitted
Note:	Volume of lumber v shall not exceed 25	%.		ngal sap stains in a	batch of 4 grade
Wood defects	1 grade	Limiting no	orms of wood defects 3 grade	s by grades 4 grade	5 grade
vood delects	size number	size number		size number	size number
4.3. Decay 4.3.1. Sap Decay					
4.3.1.1. Firm 4.3.1.2. Soft	Not ac	Imitted	In thick lumber is admitted on face or edge up to 1/5 of width and length without appearing on ends. Not admitted in medium and thin lumber Not admitted	Admitted on faces and edges up to 1/2 of width and length of lumber without appearing on end.	Admitted
	 		TVOC GOTTILLEG		

4.3.2. Heart Decay	Not admitted	Brown cnecked not admitted. Firm mottle honeycomb is admitted appearing on all sides in shape of streaks covering not more than 50% area of one face. Decay shall not cover more than 20% of and area.
4.3.3. External rot	Not admitted	
5. Insect damages		
5.1. Wormholes	Not admitted	External is admitted, caused by bark beetles

Spruce and Fir Lumber

Table 2

	Limiting norms of wood defects by grades										
Wood defects	1 gr	ade	2 g	rade	3 g	rade	4 g	rade	5 g	ırade	
	size	number	size	number	size	number	size	number	size	numbe	
Knots											
.1. Intergrown knots											
.1.1. Round & Oval											
.1.1.1. Face			de face in	dimension	is in mm a	nd amount	in pieces	on averag	ge per 1	000 mm	
	of lumber	length.									
						lumber					
	13	3	19-25	3	Adn	nitted					
	Over 13 up to 19	1	Over 25 up to 38	2	70.75	1-2					
	Over 19	1	Over 38 up to 50	1-2 on entire length	70-75	70-75 on entire length		Admitted			
	up to 25	1	With absound, rotten known	decayed,	With abse enlisted u decayed, knots	nsound,					
					In mediu	m lumber					
	13	2	19-25	2	38-50	1					
	Over 13	1	Over 25	1	(over 50 up to 63)	1-2 on entire length		Adm	itted		
	up to 19		up to 37	10.0	With absence of unsound, decayed, rotten knots						
						lumber					
	13-18	1	19-31	1-2	32 (over 32 up to 38)	1		Adm	itted		
		3 67 × 100			With abse unsound, rotten kno	decayed, ots					
	46 6	- Participation of				ness size c					
lote:	1/3 of factors,	AND CONTRACTOR OF STREET		ace width		ace width		ace width	Adr	nitted	

			s on inside correspon					1 2 grade –	one and a half, in		
	o grade -	OHE WITH				od defects		es			
Wood defects	1 gr	rade	2 gr		_	rade		grade	5 grade		
A CONTRACTOR OF THE CONTRACTOR	size	number	size	number	size	number	size	number	size number		
1.1.1.2. Edge & Corner	Admitte	d on each	n edge with	dimensio	ns in mm a	and number	in piece	es for entire	length of lumber:		
8					In thick	lumber:					
	Up to 13	8									
	Over 13 up to 16	4	19-43	3-6	44-50	1-3		Adm	nitted		
	Over 16 up to 18	1-3									
			71	***	In mediu	m lumber					
	up to 13	2-3	From 14 up to 2/3 of thickness of timber	2-3	From 19 up to 3/4 of thickness of timber	3-5		Adm	nitted		
					In thin	lumber					
	Up to 6	2-3	From 7 up to 12	1-2	From 13 up to thickness of timber				nitted		
1,1,1,3, End			Admitte	d with din		mm and n	umber ir	pieces:			
	ASSESSED PRINTED	e end 1	On both ends 1		25	1	Adm		nitted		
		p to 25	knot up			ch end					
1.1.2. Spike, branchy including appeared on corners, and edge knots	knots wit largest di thickness	h dimens iameter o s of an ed	i <mark>ons and ar</mark> f branchy k ge.	nount as p not shall r	per paragra not exceed	aphs 1.1.1. 50 mm and	1.; 1.1.1. d it shall	2. In sawn not cover r	rn round and oval timber of 1 grade more than 1/4 of		
1.2. Encased sound, unsound, decaying, rotten			face within for the entir			Irown sound	d knots v	vith dimens	sions in mm and		
1.2.1. Face	In thick lumber										
	Not admitted		Up to 30	3-6	Over 30 up to 50	3-6	Adı	mitted	Admitted. Knot holes shall not exceed 32 mm in		
	Through the board unsound, decayed and rotte								narrow and 38		
		Not admitted							mm in wide lumber		
					In mediu	m lumber					
	Not ac	dmitted	Up to 20	2-4	Over 20 up to 25	2-4		Adm	nitted		
		Th	rough the b	oard uns	ound, deca	yed and ro	The state of the s		Figure 1 months		
			Not a	dmitted			Up to	Admitted	Admitted		
					In thin	lumber	20	1 1 1 1 1 1			
	Not ac	Imitted	Up to 16	1-3	Over 16 up to 22	1-3		Adm	nitted		
		Th	rough the b	oard uns		yed and ro	tten				
			Not a	dmitted			Up to 25	Admitted	Admitted		
	ln l	lumber wi	th width of	75 mm ar	nd any thic	kness, dime	ension of	knots sha	I not exceed:		
		Not a	dmitted			face width	W	the face ridth	Admitted		
			-			od defects	THE RESERVE OF THE PERSON NAMED IN				
Wood defects		rade	2 gr			rade		grade	5 grade		
	size	number	size	number	size	number	size	number	size number		
1.2.2. Edge and corner, including knot holes	Admitted lumber	on each	edge with d	Imension	s in mm ar	nd number i	n pieces	on the ent	ire length of		

1				Transcript Bearing				
	Not admitted	Up to 15 1-2	16-25	2-4	Adn	nitted		
	ALCONA	1	III WAR IN A LOS DE PROPERTOR	m lumber	A 1	*64		
	Not A	dmitted	13-19	1-3	Adn	nitted		
	Not a	dmitted	6-10	lumber 1-2	Adn	nitted		
	INOL a	amilled		on edges	Adii	iiitea		
			AND THE RESERVE OF THE PERSON NAMED IN	covering				
	Nu	desire d		Entire thickness of lumber with	۵ ار			
	Not a	dmitted	2/3 of thickness of lumber	appearing	Adn	nitted		
1.2.3. End	1	Not admitted			Adn	nitted		
2. Checks 2.1. Side Checks 2.1.1. Face								
2.1.1.1. Non through	Admitte	d with extent of not	more than:	_				
	1/3	2/3	3	14				
	9	of the length of lum	ber	2	Admitted by cond	itions of integrity o		
	Without appearing	on ends and edge	m end to	lun	nber			
2.1.1.2. Trough 2.1.1.2.1. Through without appearing on the	Not admitted	Admitted on outs shakes on inside mo		Admitted by cond				
end, including ring		1/4	1	/3	lun	nber		
shakes		Of the ler	gth of lumb	er				
2.1.1.2.2. Through		Admitted with exter			not more than, mm	ii.		
appearing on end	50	75	1 1	00	Width of a piece	600		
2.1.2. Edge checks								
L. I.Z. Lago officino			Admitte	ed, mm:		7		
	Shallow, length no	ot more than 75 mm	Admitte Not cr	ed, mm: rossing of edge	Adn	nitted		
2.2. End checks		ot more than 75 mm	Admitted Admitted	or on one ength	Admitted by cond	itions of integrity o		
2.2. End checks 2.2.1. Heart checks	Not a		Admitted sawn timb end with I extent not than 3/4 co	in thick per on one ength more of width of not on, mm: mber with of m - 10 m - 19	Admitted by cond lun	itions of integrity on the restrictions of integrity o		
2.2. End checks 2.2.1. Heart checks	Not a	dmitted	Admitted sawn timber end with lextent not than 3/4 danger end with lextent not than 3/4 danger end	in thick per on one ength more of width of not a, mm: mber with am - 10 am - 19 am - 25	Admitted by cond lun Admitted by cond lun	itions of integrity on the state of integrity of integrit		
2.2. End checks 2.2.1. Heart checks	Not a	dmitted	Admitted sawn timber end with lextent not than 3/4 or a piece Admitted diameter of more than ln sawn tiwidth: 25 to 44m 45 to 63m above 63m ab	in thick per on one ength more of width of not a, mm: mber with am - 10 am - 19 am - 25	Admitted by cond lun Admitted by cond lun	itions of integrity onber		
2.2. End checks 2.2.1. Heart checks 2.2.2. Ring shakes	Not a	dmitted dmitted Limiting r	Admitted sawn timber end with lextent not than 3/4 or a piece Admitted diameter of more than ln sawn ti width: 25 to 44m 45 to 63m above 63m above 63m and the sawn of the sawn ti width: 25 to 44m 45 to 63m above 63m	in thick per on one ength the more of width of not on the more with of modern the modern than 10 mm - 10 mm - 25 od defects	Admitted by cond lun Admitted by cond lun by grades	itions of integrity on onber itions of integrity on onber		
2.2. End checks 2.2.1. Heart checks 2.2.2. Ring shakes	Not a	dmitted Limiting r 2 grade	Admitted Sawn timber end with lextent not than 3/4 carbinated diameter of more than In sawn ti width: 25 to 44m 45 to 63m above 63m above 63m arms of words a great direction per than 10 more than 20 m	in thick per on one ength more of width of not not n, mm: mber with m - 10 mm - 19 mm - 25 od defects rade number	Admitted by cond lun Admitted by cond lun by grades 4 grade size number	Admitted Admitted mitted by conditions of integrity of lumber mitted by conditions of integrity of lumber mitted by conditions of integrity of lumber prades 4 grade 5 grade		

3.2 Compression wood	Adm	nitted with	out splits o	n ends		Admitted			
3.3 Pitch pockets				On f	aces	1			
	Admitted on ea appearing on ed width up to 3 mm a than 75 In amount of no	ges and e and length , mm: 1 t more tha	ends with n not more	Admitted of through up wide and mm long in of 10 pcs. face	o to 6 mm up to 200 n amount		Adm	hitted	
				On e	dges				
	Admitted with dim of the		and number lated for the		eding 1/2		Adm	nitted	
	Not a	dmitted		and thick timber wit to 3 mm a up to 1/3 d lumber	n medium sawn h width up nd length of width of		Admitted		
3,4, Pith			1. A.	er of less t	than 22 mr	n thick:	141.400	ANVE-1901	
			admitted	ve- 00	المراورين المراورين	11	Adm	ntted	
	Admitted with appearing on or	extend of ne or both		th of lumbe	er with	44 mm ti			
	1/4		1/3	1	/3	1	Adm	itted	
	Of thickness of lur		out checks grades.	and shake	s in 1 and				
	111		In lumb	er of over	than 44 mr	n thick:			
	extend of entire length of lumber far from inside face not less than 1/4 of thickness of lumber				Admi	tted			
Note:	In a load	of sawn tir	mber of 3 g	rade not m	ore than 3	0% of bo	xed heart i	s admitted	
3.5. In bark (bark pockets)	Not a	dmitted	Admitted on faces non through in amount up to 4 pcs in lumber with thickness of 55 mm and up: 125 mm long and 25 mm wide; in lumber with thickness of less than 55 mm; 63 mm long and 15 mm wide; On edges 2 pieces up to 2 mm wide, not more than 20 mm long;			Adm	nitted		
3.6. Pitch & Pitch Streaks	Not admitted	Admitted	d on faces a spots an	and edges od streaks	in form of		Adm	nitted	
			Limiting no		od defects	by grade	S		
Wood defects	1 grade				rade		rade	5 grade	
4. Fungal defects 4.1. Fungal heartwood stains (streaks)	1 grade 2 grade size number size numb Not admitted			Admitted edge up to width and lumber		Admitted on faces and edges up to 1/2 of width and length of lumber, admitted showing		size number	

			on end with covering of not more than 10% of end's area.		
4.2. Light fungal sap stains and mold 4.2.1. Surface	Not admitted	Admitted on faces and edges up to 2 mm deep in shape of spots and streaks	Admitted on faces and edges in shape of spots and steaks.	Admitted	
		with total area of covering of not more than 15% of area of one face	Covering of not more than 10% of end's area		
4.2.2. Deep	Not admitted	Admitted on faces and edges in shape of spots and streaks with total area of covering of not more than 5% of area of one face.	Admitted on faces and edges in shape of spots and streaks with total area of covering of not more than 50% of area of one face and edges. With covering of not more than 10% of end's area.	Admitted	
Note:	Volume of lumber with maximum shall not exceed 25%.	admitted norm of deep fund	gal sap stains in a b	atch of 4 grade	
4.3. Decay 4.3.1. Sap decay 4.3.1.1. Firm	Not admitted	Admitted on face or edge up to 1/4 of width and length of lumber	Admitted on faces and edges up to 1/2 of width and length of lumber without appearing on ends	Admitted	
4.3.1.2. Soft		Not admitted			
4.3.2. Heart Decay	Not admitted	through with dimensions up to 1/5 of width and length of lumber without appearing on ends	one face with dimensions up to	Brown checked not admitted. Firm mottle honeycomb is admitted appearing on all sides in shape of streaks covering not more than 50% area of one face. Decay shall not cover more than 25% of end's area	
4.3.3. External rot	-	Not admitted			
5. Insect damages 5.1. Wormholes	Not admitted Externa admitted, comby bark be				
Note: Table 1 & 2	 Amount of knots for entire length of lumber, shown "from – to" means that less amount is admitted for short lumber and more – for long. Knots with less dimensions than indicated are disregarded. Intergrown knots could be knots fully intrgrown on one face and fully incased on another face of edge. In U/S (1-3 grades together) lumber, simultaneous presence of incased knots, checks and fungus sapwood stains with maximum limits are not admitted. With absence of other limiting defects one defect is admitted exceeding 20% of parameters, except for blue stain and checks. 				

Table 3

	×	
	Limiting parms of wood defeats by grades	
I	Limiting norms of wood defects by grades	

Wood defects	1 grade		29	grade	3 grade		4 grade		5 grade	
	size	number	size	number	size	number	size	number	size	number
Manufacturing defects								,		
1.1. Wane	Admitt	ad an ana i	adaa with	a outopoion	of not m	ara than:	_		_	
1.1.1. Obtuse		ted on one e		1/4		ore than.	Admitte	d on both		
		100000		h of the lum		1/3		extended		
		011		th edges:	DCI			e than 2/3		
						of the length of lumber				
	Of the length of the lumber					lamber				
	Width of wane, calculated by maximum value of miss sawn part in mm, is							Admitta	d on both	
	admitted of not more than: In lumber with thickness up to 25 mm:								extended	
	1/4 1/3 1/2				1	2/3	entire le	ength with		
				Of thicknes			1		covering	g of not an 2/3 of
				er with thick	The state of the s	35000			thicknes	
	8	1/5		1/4		1/3		2/3	width of	
		1,000	3	Of thicknes	s of lumb	per			1	
							Wane a	dmitted on	1	
	condition that sawn part of edg shall be not less than 1/2 of thickness of lumber						n that art of edge not less of			
1.1.2. Sharp	Terribor						Admitte edge no	d on one		
	Not admitted					than 1/1 of lumbe that non	0 of lengtler provided ninal widther face shall			
Note:	The wane shall be free of bark and inner bark, in lumber of 5 grade inner bark may be present							e present		
1.2. Saw marks		The depth of saw teeth marks shall not exceed 0,75 mm								
1.3. Fringe		Not admitted								
1.4. Bevel cut	Declina	Declinations from perpendicularity of end to face and to edge are admitted up to 3% of width an thickness of lumber correspondently.						f width and		
1.5. Chipping		Chipping due to mechanical damages, saw kerfs, knife marks caused by debarking machines edge corners next to inside face are not admitted; on edge corners next to outside face are admitted correspondently to wane limitations.								
1.6. Waving			T	he height of	f wave sl	nall not exc	ceed 0,75	5 mm		
1.7. Torn grain	On faces									
	Admitted not more than 0,75 mm deep without number limitations						mm dee	d up to 3 ep without limitations	Ad	mitted
					On	edges				
	Admitted not more than 3 mm deep without number limitations						than 5 r	d not more nm deep number ns	Ad	mitted
Note:	Limits for waving and torn grain are indicated only for lumber recovered on "chip and sequipment						nd saw"			
1.8. Foreign particles	Not admitted									
(nails, wire, metal debris				Limiting no	rms of w	ood defect	s by grad	des		
(nails, wire, metal debris			20	grade		grade	_	grade	5	grade
(nails, wire, metal debris and etc.)	1.0	ırade				- Control of the Cont				
nails, wire, metal debris	1 g size	grade number	size	number	size	number	size	number	size	numbe
(nails, wire, metal debris and etc.) Wood defects				number	size	number	size	number	size	numbe
(nails, wire, metal debris and etc.) Wood defects			size			-			size	numbe
(nails, wire, metal debris and etc.) Wood defects 2. Warping	size	number	size	Admitted wit	h deflect	ion of not	more tha	n, %		numbe
(nails, wire, metal debris and etc.) Wood defects	size		size	Admitted wit	h deflect	-	more tha			numbe

Note:	grade. 2. Values for crook	warp for lumber of	different length are g	given in reference Ann	nex		
2.2. Bow	Admitted with de	Admitted with deflection per each 1500 mm of the length of lumber of not more than, mm:					
	2	4	6	13			
2.3. Cup	Adı	Admitted with deflection of not more than, mm:					
		For wide lumber					
	3	3	6	10	Admitted		
		For narrow lumber					
	1	1	3	6			
2.4. Twist	Admitted with de	Admitted					
Note:	Volume of lumber with crook, bow and twist, provided p. 2.2-2.4 shall not exceed in U/S grade 10%, in 4 grade – 20% of total volume.						

- 3. Acceptance Rules and Methods of Control
- 3.1. Acceptance rules and methods of control as per GOST 6564-84
- 3.2. Sizes of knots are determined by the smallest diameter. Measurement of spike, branchy including appeared on corners and edge knots shall be taken on corner of lumber. Their size to be accepted as per the norms of admitted knots on edges. Their depth of covering of edge shall be measured by the distance between corner and tangent placed parallel to the corner.

Values of crook warping for lumber by length and grades:

	Crook warping by grades					
Length of lumber in mm	Unsor	ted (U/S)	4 gr	ade		
27.000	%	mm	%	mm		
1500	0,15	2,2	0,2	3,0		
1800	0,15	2,7	0,2	3,6		
2100	0,15	3,2	0,2	4,2		
2400	0,15	3,6	0,2	4,8		
2700	0,15	4,0	0,2	5,4		
3000	0,15	4,5	0,2	6,0		
3300	0,15	5,0	0,2	6,6		
3600	0,15	5,4	0,2	7,2		
3900	0,15	5,8	0,2	7,8		
4200	0,15	6,3	0,2	8,4		
4500	0,15	6,8	0,2	9,0		
4800	0,15	7,2	0,2	9,6		
5100	0,15	7,6	0,2	10,2		
5400	0,15	8,1	0,2	10,8		
5700	0,15	8,6	0,2	11,4		
6000	0,15	9,0	0,2	12,0		
6300	0,15	9,4	0,2	12,6		
6600	0,15	9,9	0,2	13,2		
6900	0,15	10,4	0,2	13,8		
7200	0,15	10,8	0,2	14,4		
7500	0,15	11,2	0,2	15,0		