



USSR STATE STANDARD

**CONIFEROUS SAWN TIMBER
OF NORTHERN GRADING
SUPPLIED FOR EXPORT**

SPECIFICATIONS

GOST 26002-83

Official Edition

3

STANDARDS PUBLISHING HOUSE
Moscow

USSR STATE STANDARD

**CONIFEROUS SAWN TIMBER OF NORTHERN
GRADING SUPPLIED FOR EXPORT****Specifications****GOST
26002-83 ***

OKP (All-Union Product Classification Code) 533111

By the Decree No. 5894 of the USSR State Committee for Standards dated December 14, 1983, the term of validity is set

From 01.01.85

By the Decree No. 403 of the USSR Gosstandart dated March 2, 1989, the term of validity is extended

to 01.01.95

This Standard applies to sawn coniferous wood supplied for export through the White Sea, Far-Eastern, Leningrad and Ingarksk ports.

1. DIMENSIONS

1.1. The sawn timber is subdivided

by thickness: into thin - from 16 to 22 mm,

medium - from 25 to 44 mm,

thick - from 50 to 100 mm;

by width: into narrow - from 75 to 125 mm,

wide - 150 mm and more;

by length: into short - from 0.45 to 2.40 m.

long- from 2.70 to 6.30 m.

1.2. By thickness and width, the nominal dimensions of sawn timber are specified according to GOST 24454-80, in which case the thickness of sawn timber shall not exceed 100 mm.

1.3. By length, the sawn timber dimensions are specified:

from 1.5 m and more, in gradations of 0.3 m,

from 0.45 to 1.35 m, in gradations of 0.15 m.

Official Edition

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** Revised edition (October 1993) with Amendments Nos.1, 2 approved in December 1985, December 1986. IUS (Standards Information Catalog) 4-86, 2-87.*

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Sawn timber from 0.45 to 1.35 m long shall be manufactured under the order of the Foreign Trade Association.

1.4. The nominal dimensions of sawn timber are specified for wood with a moisture content of 20%. If wood moisture content exceeds or is less than 20%, the actual dimensions of thickness and width of sawn timber shall be more or less than the nominal dimensions by the respective amount of shrinkage of wood, in accordance with GOST 6782.1-75.

1.5. The maximum deviation from the nominal dimensions of sawn timber shall not exceed, mm:

in length	+ 25 -12
in width	+ 3 - 2
in thickness:	
less than 50 mm	+ 2 - 1
50 mm and more	+ 3 - 2

The quantity of sawn timber with maximum permissible deviations shall not constitute more than 25 % of the total quantity of sawn timber.

2. TECHNICAL REQUIREMENTS

2.1. The sawn timber shall be manufactured from pine, spruce, fir, larch and cedar wood, in compliance with the requirements of this Standard, and in accordance with requirements approved in accordance with the established procedure.

2.2. As to quality and treatment of wood, the sawn timber shall be subdivided into grades 1, 2, 3, 4 and 5.

2.3. The sawn timber shall be classified by:

sections;

wood species;

grades - assorted (including grades 1, 2, 3, whose percentage ratio shall correspond to the output of sawn timber after sawing), separately grade 4, separately grade 5. It is allowed to classify short-sawn timber as assorted and grade 4 together, and grade 5, separately.

Up to 15% of sawn fir timber is allowed in a batch of coniferous sawn timber.

2.4. The moisture content of sawn timber shall not exceed 22%. It is allowed to change the moisture content value under the order of the Foreign Trade Association.

2.5. Preservative treatment of sawn timber shall be in accordance with GOST 10950-78.

2.6. The quality of sawn timber and its treatment shall correspond to the standards indicated in tables 1 to 3.

Table 1

Pine, cedar and larch sawn timber

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1 Knots 1.1. Intergrown, sound 1.1.1 Round and oval 1.1.1.1 Face	Allowed on the side face with dimensions, in mm, and quantity, in pcs, on average 1.0 m length of sawn timber:									
	In thick and wide sawn timber									
	13-17	1	18-27	1	28-38	2				Allowed
					Over 38 up to 50	1				
	In thick narrow sawn timbers									
	10-14	1	15-24	1	25	2				Allowed
					Over 25 up to 38	2				
	In medium wide sawn timber									
	10-14	1	15-18	1	19-25	3				Allowed
					Over 25 Up to 38	1				
	In medium narrow sawn timber									
	10 - 14	1	15-18	1	19-25	3				Allowed
					Over 25 Up to 32	1				

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1.1.1.2. Edge and arris knots	In thin sawn timber									
	10-14	1	15-18	1	19-22	2	Allowed			
					Over 22 Up to 32	1				
	In sawn timber 75 mm wide, of all thicknesses, the dimension of knots shall not exceed:									
	1/4		1/3		1/2		2/3		Allowed	
		of width			of face					
The quantity of knots on inner face of grades 1 and 2 sawn timber is allowed to be twice as much as in grade 3 sawn timber, and as much as one and a half the standard stipulated for the external face.										
Allowed on each edge, with dimensions, in mm, and quantity, in pieces, throughout the entire length of sawn timber:										
In thick sawn timber										
Up to 6	3-4	7-12	3-5	13-16	5-8	Allowed				
		13-19	3-5	Over 16 Up to 25	3-5					
				Over 25 Up to 32	3					

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1.1 13 End face	In medium sawn timber									
	Up to 6	2-3	7-12 13-19	2-4 2-3	13-16 Over 16 up to 3/4th sawn timber thickness	2-4 2-4				Allowed
	In thin sawn timber									
	Up to 6	1-2	7-10	1-2	Up to 2/3rd sawn timber thickness	2				Allowed
			Allowed on each end, with dimensions , in mm, and quantity, in pieces :							
			Not allowed		25	1				Allowed

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1.1.2. Horn, branched, including those coming out onto the arris, and slash knots	Allowed on the inner face of sawn timber in total quantity of intergrown round and oval knots, with dimensions and quantity indicated in Clauses 1.1.1.1, 1.1.1.2.									
	38		50		Allowed dimension of the greatest knot diameter, in mm, not over:					Allowed
	Not allowed		1/4		Knots coming out to edges:		Allowed depth of occurrence not over:		Allowed	
					of sawn timber thickness					
1.2. Black sound, decayed, dead and tobacco-colored	Indicated knots, with dimensions in mm and quantity in pieces, allowed on the outside surface in the number of intergrown sound knots on an average 1.0 m length of sawn timber									
1.2.1. Face	Not allowed				In thick wide sawn timber					
					25	1	63	1	Allowed	
					Through decayed, dead and tobacco-colored					
					Not allowed		25	1	Allowed	

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades										
	1st		2nd		3 rd		4th		5th		
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	
1.2.2. Edge and arris knots, including knot holes	In 75 mm wide sawn timber of all thicknesses, the dimension of knots shall not exceed:										
	Not allowed				1/3		1/2		2/3		
	of face width										
	Indicated knots allowed on each edge, with dimensions in mm and quantity in pieces, throughout the entire length of sawn timber										
	In thick sawn timber										
	Not allowed		13	1-2	38	2-4	Allowed				
In medium sawn timber											
Only sound											
Not allowed		10	1-2	32	2-4	Allowed					
In thin sawn timber											
Only sound											
Not allowed		6	1-2	25	2-4	Allowed					
Knot holes on edge											
Not allowed		Allowed, if depth is not over:				of sawn timber		thickness coming out to the		Allowed	
		in thick - 1/4		in medium - 1/3		in thin - 1/2		of sawn timber thickness		outside, not over 2.0 mm	

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1.2.3. End face	Not allowed					Allowed				
2. Cracks										
2.1. Side cracks										
2.1.1. Shell shakes										
2.1.1.1. Blind checks	1/3		Allowed, if length is not over: 1/2 of sawn timber length without coming out to end faces and edges		2/3	coming out to one end face to 1/3 of the depth of sawn timber thickness, without coming out from end face to edge		Allowed, provided sawn timber integrity is preserved		
2.1.1.2. Through checks	Not allowed		Allowed without coming out to edges on side and inner faces extending maximum by:			Allowed, provided sawn timber integrity is preserved				
2.1.1.2.1. Through checks without coming out to the end face including burst checks			In thick sawn timber 1/5 (1/2)		1/3 (2/3)		In medium sawn timber 1/10 (1/4)		1/5 (1/3)	
			of sawn timber length			In thin sawn timber Not allowed				

Note. The unbracketed crack dimensions relate to the side face, and bracketed crack dimensions relate to the inner face.

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades										
	1st		2nd		3 rd		4th		5th		
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	
2.1.1.2.2. Through checks coming out to end face	30		Allowed if their length from each end face is not over, mm:							600	
2 1.2. Edge cracks	shallow if they are not longer than 40 mm		40		50		Allowed if they do not intersect arris edges		Allowed		
2.2. End checks											
2.2.1. Heart checks	Not allowed				Allowed in thick sawn timber on one end face not longer than 1/2 of the sawn timber width				Allowed		
2.2.2. Burst checks	Not allowed				Allowed if diameter is not over, mm: in sawn timber from 25 to 44 mm thick - 10 over 44 to 63 mm thick - 19 over 63 mm thick - 25				Allowed, provided sawn timber integrity is preserved		
3. Defects in wood texture											
3 1. Fiber inclination	Allowed if fiber deflection from straight direction on a 0.3 m length of sawn timber constitutes not over, mm:										
	10		19		25					Allowed	

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades																																							
	1st		2nd		3 rd		4th		5th																															
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity																														
3.2. Abnormal wood	Allowed without cracks on end faces						Allowed																																	
3.3. Pockets	<p style="text-align: center;">On faces</p> <p style="text-align: center;">In thick sawn timber</p> <p style="text-align: center;">One-sided pockets are allowed if not wider than, mm</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">3</td> <td style="width: 15%; border-left: 1px solid black; border-right: 1px solid black; text-align: center;">3</td> <td style="width: 15%; text-align: center;">6</td> </tr> <tr> <td></td> <td style="text-align: center;">not longer than, mm:</td> <td></td> </tr> <tr> <td style="text-align: center;">75</td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;">100</td> <td style="text-align: center;">200</td> </tr> <tr> <td></td> <td style="text-align: center;">on each face not more than, pcs</td> <td></td> </tr> <tr> <td style="text-align: center;">2-3</td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;">4-6</td> <td style="text-align: center;">8</td> </tr> </table> <p style="text-align: center;">In medium and thin sawn timber</p> <p style="text-align: center;">One-sided pockets are allowed if not wider than, mm</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">3</td> <td style="width: 15%; border-left: 1px solid black; border-right: 1px solid black; text-align: center;">3</td> <td style="width: 15%; text-align: center;">6</td> </tr> <tr> <td></td> <td style="text-align: center;">not longer than, mm:</td> <td></td> </tr> <tr> <td style="text-align: center;">25</td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;">75</td> <td style="text-align: center;">125</td> </tr> <tr> <td></td> <td style="text-align: center;">on each face not more than, pcs</td> <td></td> </tr> <tr> <td style="text-align: center;">2-3</td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;">3-4</td> <td style="text-align: center;">5</td> </tr> </table> <p style="text-align: center;">without coming out into edges and end faces</p>						3	3	6		not longer than, mm:		75	100	200		on each face not more than, pcs		2-3	4-6	8	3	3	6		not longer than, mm:		25	75	125		on each face not more than, pcs		2-3	3-4	5	Allowed			
3	3	6																																						
	not longer than, mm:																																							
75	100	200																																						
	on each face not more than, pcs																																							
2-3	4-6	8																																						
3	3	6																																						
	not longer than, mm:																																							
25	75	125																																						
	on each face not more than, pcs																																							
2-3	3-4	5																																						
	Not allowed	On edges				Allowed																																		
		1/2 of the standard stipulated for the side face	Allowed	up to 3 mm wide, up to 100 mm long, up to 4 pcs on each edge																																				

Note. The indicated quantities of pockets are allowed: smaller pockets - on the side face; greater pockets - on the inner face.

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
3.4. Pith	Not allowed				On end faces		Allowed			
	In sawn timber over 25 mm thick, pith is allowed without burst and radial checks				In medium and thick sawn timber, allowed width is up to 3 mm, and allowed length is up to 1/3 of the sawn timber width		Allowed			
	up to 1/2 of the sawn timber length, coming out to one end face at a distance not over 1/6 of the sawn timber thickness from inner face		throughout the entire length of sawn timber, coming out to one end face at a distance not over 1/4 of the sawn timber thickness from inner face		-		Allowed			
	Not allowed				In sawn timber 25 mm thick and less		Allowed			
				Is allowed if it adjoins the inner face passing over to the side face						

Note. No more than 30 % pithy sawn timber is allowed in grade 3 sawn timber batch.

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
3.5. Inbark	Not allowed				Allowed on faces: blind inbark not wider than 25 mm in the quantity of 1 pc, 75 mm long and up to 3 pcs each not longer than 50 mm; on edges - 2 pcs up to 2 mm wide, not longer than 15 mm; on end faces - inbark is Not allowed		Inbark is allowed up to 50 mm wide: one-sided in thick sawn timber, length unlimited, up to 175 mm long in medium and thin sawn timber		Allowed	
3.6. Gum spot (pitch streak)	Not allowed		Allowed in the form of spots and stripes on faces and edges				Allowed			
4. Wood-destroying fungus 4.1. Fungus heart spots (stripes)	Not allowed				Allowed in thick sawn timber on face or edge without coming out into end faces up to 1/5 of the sawn timber width and length		Allowed on faces and edges up to 1/2 of the sawn timber width and length, allowed coming out into end face on not over 10 % of the end face area		Allowed	

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
4.2. Light sap-wood fungus colors and mould	Not allowed				Not allowed in medium and thin sawn timber					
	4.2.1. Surface		Not allowed		Allowed on faces and edges up to 2 mm deep as spots and stripes of total area on all board surfaces, not over 15 % of one face		Allowed on faces and edges as spots and stripes. Allowed coming out into end face on not over 10 % of its area		Allowed	
4.2.2. Deep			Not allowed		Allowed on faces and edges as spots and stripes of total area on all board surfaces, not over 5 % of the total area of one face		Allowed on faces and edges as spots and stripes with total area not over 50 % of the area of one face and edges. Allowed coming out into end face on not over 10 % of its area			

Note. The quantity of sawn timber with maximum permissible standard of deep sap-wood fungus colors in the grade 4 sawn timber batch shall not exceed 25 %.

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
4.3. Rot 4.3.1. Sap-wood rot 4.3.1.1. Hard rot	Not allowed				Allowed in thick sawn timber on face or edge without coming out into end faces up to 1/5 of the sawn timber width and length Not allowed in medium and thin sawn timber Not allowed		Allowed on faces and edges up to 1/2 of the sawn timber width and length without coming out into end		Allowed	
4.3.1.2. Soft rot 4.3.2. Heart rot					Not allowed				Grayish brown cracked heart rot is not allowed Mottled screen hard heart rot is allowed on all surfaces as stripes with total area not over 50 % of one face area	

Table 1 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
4.3.3. External moldering rot	Not allowed									On the end face, rot shall not exceed 20 % of the end face area
5. Defects caused by insects										
5.1. Worm hole	Not allowed									Surface worm holes caused by bark beetles are allowed

Table 2

Spruce and fir sawn timber

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1 Knots 1.1 Intergrown sound 1.1.1. Round and oval 1.1.1.1. Face	Allowed on the side face having dimensions in mm and quantity in pcs on average 1.0 m length of sawn timber:									
			In thick sawn timber							
	13	3	19-25	3	Allowed		Allowed			
	Over 13	1	Over 25	2						
	Up to 19		Up to 38							
	Over 19	1	(Over 38	1-2	70-75	1-2				
	Up to 25		Up to 50)	throughout the entire length		throughout the entire length				
			if decayed, dead and tobacco-colored knots are not present		if allowed decayed, dead and tobacco-colored knots are not present					

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
	13	2	19-25	2	In medium sawn timber					
	Over 13 up to 19	1	Over 25 up to 37	1	38-50- (Over 50 up to 63)	1 1-2 throughout the entire length if decayed, dead and tobacco-colored knots are not present			Allowed	
	13-18	1	19-31	1-2	In thin sawn timber					
					32 (Over 32 up to 38)	3 1 if decayed, dead and tobacco-colored knots are not present			Allowed	
		1/3	In sawn timber, 75 mm wide of all thicknesses, dimension of knobs shall not exceed:							
			1/3		1/2		2/3		Allowed	
					of face width					

Notes: 1. Knots whose dimensions are bracketed may be included in the number of permitted knots of smaller dimension

2. The quantity of knots on the inner face permissible for grade 1 is doubled the quantity for grade 2, and one and a half for grade 3, as a single quantity as compared with the standards stipulated for the side face.

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1.1.1.2. Edge and arris knots	Allowed on each edge, with dimensions in mm and quantity in pcs, throughout the entire length of sawn timber:									
	In thick sawn timber									
	Up to 13	8								Allowed
	Over 13	4								
	Up to 16									
	Over 16 up to 18	1-3	19-43	3-6	44 - 50	1-3				
	In medium sawn timber									
	Up to 13	2-3	from 14 up to 2/3 of the sawn timber thickness	2-3	from 19 up to 3/4 of the sawn timber thickness	3-5				Allowed
	In thin sawn timber									
	Up to 6	2-3	From 7 Up to 12	1-2	from 13 up to the sawn timber thickness	2-4				Allowed
1.1.1.3. End face	Allowed dimensions, in mm and quantities in pcs									
	On one end face, one knot measuring up to 25		On both end faces, one knot measuring up to 25		25 on each end face	1				Allowed

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades											
	1st		2nd		3 rd		4th		5th			
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity		
1.2.2. Edge and arris including knot holes	Through decayed, dead and tobacco-colored											
	Not allowed					Up to 25		Allowed		Allowed		
	In sawn timber, 75 mm wide and all thicknesses, the dimension of knots shall not exceed:											
	Not allowed				1/3		1/2		Allowed			
	of face width											
	Allowed on each edge, with dimensions in mm and quantity in pcs, throughout the entire length of sawn timber											
	In thick sawn timber											
	Not allowed		Up to 15		1-2		16-25		2-4		Allowed	
	In medium sawn timber											
	Not allowed				13-19		1-3		Allowed			
In thin sawn timber												
Not allowed				6-10		1-2		Allowed				
Knot holes on edge:												
Not allowed				Allowed depth up to:				Allowed				
					2/3 of the sawn timber thickness		sawn timber thickness coming out onto the side face up to 2 mm					

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1.2.3. End face	Not allowed					Allowed				
2. Cracks										
2.1. Side cracks										
2.1.1. Shell shakes										
2.1.1.1. Blind checks	1/3		Allowed not over: 2/3 of sawn timber length Without coming out onto the ends and edges		3/4	Allowed provided the sawn timber integrity is preserved				
2.1.1.2. Through checks										
2.1.1.2.1. Through checks, without coming out into the end faces, including burst checks	Not allowed		Allowed on the side face, and for burst checks on the inner face, not longer than: 1/4		1/3	Allowed provided the sawn timber integrity is preserved				
2.1.1.2.2. Through checks coming out into the end face	50		Allowed if extent from each end face is not over, mm: 75		100	of sawn timber width		600		
2.1.2. Edge cracks	shallow if extent is not over		not intersecting arris on edges		Allowed, mm:		Allowed			

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
2.2. End checks										
2.2.1. Heart checks	Not allowed				Allowed in thick sawn timber on one end face not longer than 3/4 of the sawn timber width		Allowed provided the sawn timber integrity is preserved			
2.2.2. Burst checks	Not allowed				Allowed if diameter in not over, mm: in sawn timber from 25 to 44 mm thick: 10 Over 44 up to 63: 19 over 63 mm: 25		Same			
3. Defects in wood texture										
3.1. Fiber inclination	Allowed, if fiber inclination from the straight direction on 3.0 m of the sawn timber length constitutes not more than, mm:								Allowed	
	13		25		38					
3.2. Abnormal wood			Allowed without cracks in the end faces						Allowed	

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
3.3. Pockets	Allowed on each face without coming out into edges and end faces up to 3 mm wide and not longer than, mm:		150		One-sided pockets are allowed up to 6 mm wide and up to 200 mm long, in a quantity of 10 pcs on each face		Allowed			
	75									
	in the quantity not over, pcs:			5						
3.4. Pith	3				On edges		Allowed			
	Allowed in dimensions and quantity not over 1/2 of the standards stipulated for face				On end faces		Allowed			
	Not allowed				Allowed in medium and thick sawn timber up to 3 mm wide and in length up to 1/3 of the sawn timber width		Allowed			
3.4. Pith	In sawn timber less than 22 mm thick:		Not allowed				Allowed			
	In sawn timber from 22 to 44 mm thick:						Allowed			
	Allowed throughout the entire length of the sawn timber, coming out into one or both end faces at a distance from the inner face not over:		1/3		1/3		Allowed			
	1/4									
	of sawn timber thickness without radial and burst checks in grades 1 and 2									

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
3.5. Inbark	In sawn timber over 44 mm thick									
	Allowed throughout the entire length at a distance at least 1/4 of the sawn timber thickness from the inner face		Allowed							
3.6. Gum spot (pitch streak)	No more than 30 % of pithy sawn timber is allowed in the grade 3 sawn timber batch									
	Not allowed		Blind inbark is allowed in a quantity of 4 pcs on the faces in the sawn timber, 50 mm thick and more: 125 mm long and up to 25 mm wide; in the sawn timber less than 50 mm wide: 63 mm long and up to 15 mm wide; on the edges 2 pcs: up to 2 mm wide and not over 20 mm long				Allowed			
	Not allowed		Allowed as spots and stripes on the faces and edges				Allowed			

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
4. Wood-destroying fungus										
4.1. Fungus heart spots (stripes)	Not allowed				Allowed on the face or edge measuring up to 1/4 of the sawn timber width and length		Allowed on the faces and edges up to 1/2 of the sawn timber width and length, allowed coming out into the end face on not over 10 % of the end face area		Allowed	
4.2. Light sap-wood fungus colors and mould										
4.2.1. Surface	Not allowed				Allowed on the faces and edges up to 2 mm deep, as spots and stripes on an area of all board surfaces not over 15 % of one face area		Allowed on the faces and edges as spots and stripes. Allowed coming out into the end face on not over 10% of its area		Allowed	

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
4.2.2. Deep	Not allowed				Allowed on the faces and edges as spots and stripes on total area of all surfaces of the board not over 5 % of one face area		Allowed on the faces and edges as spots and stripes on total area not over 50 % of the area of one face and edge. Allowed coming out into the end face on not over 10 % of its area		Allowed	
4.3. Rot	Note. The quantity of sawn timber with maximum permissible standard of deep sapwood fungus colors in grade 4 sawn timber batch shall not exceed 25 %.									
4.3.1. Sap-wood rot										
4.3.1.1. Hard rot	Not allowed				Allowed on the face and edge measuring up to 1/4 of the sawn timber width and length		Allowed on the faces and edges measuring up to 1/2 of the sawn timber width and length, without coming out into the end face		Allowed	
4.3.1.2. Soft rot										
4.3.2. Heart rot	Not allowed				Not allowed Hard one-sided heart rot measuring up to 1/5 of the sawn timber width and length is allowed without coming out into the end faces		Hard rot is allowed on one face measuring up to 1/4 of the sawn timber width and 1/3 of the sawn timber length, slightly passing onto the other face and into the edges		Grayish brown cracked heart rot is not allowed. Mottled screen hard heart rot is allowed on the faces and edges on a total area not over 50 % of one face area. On the end face, rot shall not exceed 25 % of the end face area.	

Table 2 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of wood defects in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
4.3.3. External moldering rot	Not allowed									
5. Defects caused by insects										
5.1. Worm hole	Not allowed					Surface worm holes caused by bark beetles are allowed				

Notes to tables 1 and 2.

1. The quantity of knots throughout the entire length of sawn timber indicated as “from - to” means that the smaller quantity is allowed in short sawn timber, and the greater is in long sawn timber.
2. Knots with dimensions smaller than the ones indicated shall not be taken into consideration.
3. Intergrown knots also include those on one face that are intergrown throughout the entire perimeter of the knot section, and on the other face or edge - non-intergrown knots throughout the entire perimeter of the knot section.
4. In assorted sawn timber, simultaneous occurrence of non-intergrown knots, cracks and sapwood fungus colors with maximum permissible standards is not allowed.
5. If other standardized defects are not present, one defect is allowed except for blue rot and cracks exceeding the specified standards by 20 %.

Table 3

Defect in wood in accordance with GOST 2140-81	Standard of limitation of treatment defects and damages in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1. Defects caused by mechanical treatment										
1.1. Wane										
1.1.1. Blunt										
	1/5		Allowed on one edge not over: 1/4 of sawn timber length			1/3	Allowed on both edges, not longer than 2/3 of the sawn timber length		Allowed on the both edges throughout the entire length, with saw cut not less than 1/3 of the sawn timber thickness and width	
on both edges:	1/10		1/5 of sawn timber length			1/4				
	Wane width included in the maximum value of uncut part, in mm, shall not be more than:									
	1/4		In sawn timber up to 25 mm thick: 1/3 of sawn timber thickness			1/2	2/3		-	
	1/5		In sawn timber more than 25 mm thick: 1/4			1/3	2/3		-	
							Wane is permissible if the cut part of the edge constitutes not less than 1/2 of the sawn timber thickness			

Table 3 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of treatment defects and damages in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
1.1.2. Acute	Not allowed								Is allowed on one edge not over 1/10 of the sawn timber length provided the inner face nominal width is preserved	
1.2. Notches	Wane shall be cleaned of bark and bast; in grade 5 sawn timber, the bast layer can remain									
1.3. Fringe	The depth of notches shall not exceed 0.75 mm									
1.4. Skewed saw cut	Not allowed									
1.5. Spalls	Permissible departures from perpendicularity of the end to the face and edge is up to 3 % of the sawn timber width and thickness, respectively.									
1.6. Waviness	Spalls caused by damage, saw cuts, traces left by knives of barking machines on the arris adjacent to the inner face of the sawn timber are not allowed; spalls on the arris adjacent to the side face are permissible in accordance with the wane standards									
1.7. Tear-outs	Wave height shall not exceed 0.75 mm									
	On faces									
	Allowed not over 0.75 mm deep, quantity is unlimited					Allowed depth is up to 3 mm, quantity is unlimited			Allowed	

Table 3 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of treatment defects and damages in grades										
	1st		2nd		3 rd		4th		5th		
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	
	On edges:										
	Permissible depth is not over 3 mm, quantity is unlimited						Permissible depth not over 5 mm, quantity is unlimited		Allowed		

Note. Limiting standards for waviness and tear-out are indicated only for sawn timber obtained on sawing-milling machines and breaking-down and milling machines

1.8. Inclusions (nails, wire, metal fragments, etc.)	Not allowed									
2. Crook										
2.1. Longitudinal crook along edge	0.10		0.10		Allowed sag not over, %: 0.15 of sawn timber length		0.20		Allowed	
Notes: 1. The quantity of sawn timber with allowed longitudinal crook along the edge shall not exceed 20 % of the total grade quantity. 2. The values of longitudinal crook along the edge for various lengths of sawn timber are given in the Reference Appendix.										
2.2. Longitudinal crook along the face	Allowed sag on every 1.5 m of sawn timber length, not over, mm:									Allowed
	2		4		6		13			

Table 3 (cont.)

Defect in wood in accordance with GOST 2140-81	Standard of limitation of treatment defects and damages in grades									
	1st		2nd		3 rd		4th		5th	
	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity	Dimension	Quantity
2.3. Transverse	Allowed sag, not over, mm: In wide sawn timber 8 3 6 10 In narrow sawn timber 1 1 3 6								Allowed	
2.4. Cast crooking	Allowed departure from the saw cut plane is not over 13 mm throughout the entire length of sawn timber								Allowed	

Note. The quantity of sawn timber with longitudinal crook along the face, transverse crook and cast crooking standardized in Clauses 2.2 to 2.4 shall not exceed, in the assorted sawn timber, 10 %, and in grade 4, 20 % of the total quantity.

(Amended Wording, Amendments Nos. 1, 2).

3. ACCEPTANCE PROCEDURE AND QUALITY MONITORING

3.1. Acceptance procedure and quality monitoring shall be in accordance with GOST 6564-84.

3.2. Knot dimensions are determined with reference to the smallest diameter.

Measurement of horn, branched, coming out onto the arris, slash and arris knots is performed on the basis of the extent of knot section on the sawn timber arris. Their dimensions shall be assumed according to the standards of allowed knots on the edges. The depth of occurrence of knots in the edge shall be determined by the distance between the arris and a tangent line drawn parallel to the arris.

4. PACKAGING, MARKING, TRANSPORTATION AND STORAGE

4.1. The sawn timber shall be packaged in the stacks and block-stacks.

Formation, marking, packaging, transportation and storage of the stacks and block-stacks shall be in accordance with GOST 19041-85.

Before stacking, sawn timber 75 mm wide, of all lengths and grades, may be bound into bundles with the aid of wire in accordance with GOST 3282-74, or with other binding means whose strength shall correspond to the indicated material.

The dimensions of stacks and block-stacks shall be in accordance with GOST 16369-80.

4.2. Item by item marking of sawn timber shall be performed according to the specifications and technical documentation.

4.3. Sawn timber shall be transported by all kinds of transport, in compliance with cargo carriage rules in effect for the given type of transport.

4.4. Sawn timber storage shall be in accordance with GOST 3808.1-80.

Values of longitudinal crook along edge for various lengths and grades of sawn timber

Sawn timber length, m	Longitudinal crook along edge in sawn timber grades			
	assorted		grade 4	
	%	mm	%	mm
1.5	0.15	2.2	0.2	3.0
1.8	0.15	2.7	0.2	3.6
2.1	0.15	3.2	0.2	4.2
2.4	0.15	3.6	0.2	4.8
2.7	0.15	4.0	0.2	5.4
3.0	0.15	4.5	0.2	6.0
3.3	0.15	5.0	0.2	6.6
3.6	0.15	5.4	0.2	7.2
3.9	0.15	5.8	0.2	7.8
4.2	0.15	6.3	0.2	8.4
4.5	0.15	6.8	0.2	9.0
4.8	0.15	7.2	0.2	9.6
5.1	0.15	7.6	0.2	10.2
5.4	0.15	8.1	0.2	10.8
5.7	0.15	8.6	0.2	11.4
6.0	0.15	9.0	0.2	12.0
6.3	0.15	9.4	0.2	12.6
6.6	0.15	9.9	0.2	13.2
6.9	0.15	10.4	0.2	13.8
7.2	0.15	10.8	0.2	14.4
7.5	0.15	11.2	0.2	15.0

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 Proof-reader *V. I. Kanurkina*