



USSR STATE STANDARD

**SAWN TIMBER OF
DECIDUOUS SPECIES**

SPECIFICATIONS

GOST 2695-83

**(CMEA Standard 2370-80, CMEA Standard 2371-80,
CMEA Standard 2812-80)**

Official Edition

**USSR STATE COMMITTEE FOR STANDARDS
Moscow**

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SAWN TIMBER OF DECIDUOUS SPECIES

Specifications

OKP (All-Union Product Classification Code) 53 3000

**GOST
2695-83**(CMEA standard 2370-80,
CMEA Standard 2371-80,
CMEA Standard 2812-80)**Term from 01.01.84
to 01.01.94****Failure to comply with this Standard will result in legal proceedings**

This Standard applies to sawn timber of deciduous species intended for use in the domestic economy.

This Standard does not apply to sawn timber for aviation.

1. DIMENSIONS

1.1. Sawn timber shall be subdivided into edged, one-sided edged and un-edged, boards and blocks. The terms and definitions shall be in accordance with GOST 18288-77.

1.2. The following stipulated dimensions of sawn timber shall be established:

by length:

from 0.5 to 6.5 m with gradation of 0.10 m for a length of sawn timber made from hard deciduous species;

from 0.5 to 2.0 m with gradation of 0.10 m for a length of sawn timber made from soft deciduous species and birch;

from 2.0 to 6.5 m with gradation of 0.25 m for a length of any sort of timber;

by thickness:

19, 22, 25, 32, 40, 45, 50, 60, 70, 80, 90, 100 mm;

60, 70, 80, 90, 100, 110, 130, 150, 180, 200 mm for a width of edged sawn timber;

by width:

50 mm or more with gradation of 10 mm for a width of un-edged and one-sided edged sawn timber.

p. 2 GOST 2695-83

A width of the narrow sawn timber face in edged timber shall be no less than 40 mm.

1.3. The stipulated dimensions of sawn timber for thickness and width are specified for wood with 20% moisture content. If moisture content of wood is more or less than 20%, the dimensions of sawn timber shall be established taking the value of shrinkage into account in accordance with GOST 6782.2-75.

1.4. The following maximum deviations from the stipulated dimensions of sawn timber shall be established:

of length, mm	+50 -25
of thickness up to 32 mm	±1.0
of thickness over 32 mm	±2.0
of width of edged timber:	
up to 100 mm	±2.0
over 100 mm	±3.0.

1.5. The manufacture of sawn timber from soft deciduous species and birch, intended for use in place of coniferous, shall be allowed with dimensions in accordance with GOST 24454-80.

1.6. A conventional designation of sawn timber shall consist of the name of the object of standardization (sawn timber, board, block, cant), of a digit, indicating a grade, name of type of wood, a digit designation of cross-section of sawn timber and number of this Standard.

An example of a conventional designation would be:

Пиломатериалы - 2 - дуб – 40×60 ГОСТ 2695-83

(Amended Wording, Amendment No. 2).

2. TECHNICAL REQUIREMENTS

2.1. Sawn timber shall meet the requirements of this Standard and be produced from wood of hard and soft deciduous species.

Beech sawn timber shall be exposed to steam drying.

Beech sawn timber may be produced without steam drying at the customer's request.

(Amended Wording, Amendment Nos. 1 and 2).

2.2. Sawn timber shall be produced dry (with moisture content not over 22%), damp (with moisture content over 22%) and damp antiseptized. Antiseptization shall be in accordance with GOST 10950-78. Production of damp sawn timber shall be allowed in the period from May 1 to October 1 by agreement with the customer.

2.3. Sawn timber in accordance with wood quality shall be subdivided into three grades (1st, 2nd, 3rd) and shall meet the requirements specified in the following table.

Wood defects of in accordance with GOST 2140-81	Standard for limits of defects in sawn timber for grades:		
	1st	2nd	3rd
1. Knots	Not taken into account, except for groups with dimensions, mm, up to:		
1.1. Sound intergrown	10	20	50
	Allowed on any one-meter section of length on sawn timber faces of widths up to 100 mm		
	1 piece of dimension up to 20 mm	2 pieces of dimension up to 50 mm, but not over $\frac{1}{2}$ width	with the total value of dimensions up to 300 mm
	2 pieces with dimension up to 20 mm	3 pieces with dimension up to 50 mm	with the total value of dimensions up to 300 mm
	2 pieces with dimension up to 40 mm	3 pieces with dimension up to 50 mm	with the total value of dimensions up to 300 mm
	2 pieces with dimension up to 40 mm or 1 piece with dimension up to 60 mm	3 pieces with dimension up to 50 mm or 2 pieces with dimension up to 70 mm	with the total value of dimensions up to 300 mm
	In sawn timber of a width over 200 mm and length over 3.0 m when there is an absence of other standardized defects on each consecutive 1.5 m of length, one knot is allowed irrespective of its location with dimension, mm, up to:		
	60	80	
	on edges of edged timber of widths up to 32 mm		
	1 piece with dimension of $\frac{1}{3}$ width	1 piece with dimension of $\frac{1}{2}$ width	allowed
	with thickness from 40 up 60 mm		
	2 pieces with dimension of $\frac{1}{3}$ width	2 pieces with dimension of $\frac{1}{2}$ width	allowed
1.2. Partly intergrown sound and dead sound	Not taken into account, except for groups with dimensions, mm, up to:		
	-	15	30

Wood defects in accordance with GOST 2140-81	Standards for limits of defects in sawn timber for grades:		
	1 st	2nd	3rd
1.3. Falling out, unsound, decayed, and tobacco	20	40	with the total value of dimensions up to 150 mm
	Not allowed	Not taken into account, except for groups with dimensions, mm, up to: 10	25
2. Cracks		1 piece with dimension up to 40 mm	By the total value of dimensions up to 150 mm
		Are allowed with a depth and length up to: $\frac{1}{6}$	$\frac{1}{2}$
2.1. Sawn timber face and edge (on edged ends), including on the end face		of a thickness and length of sawn timber	
2.2. Sawn timber face, on both end faces	Not allowed	Allowed one of depth up to: $\frac{1}{5}$	$\frac{1}{3}$
		of a thickness of sawn timber	Depth is not standardized for sawn beech timber of widths over 200 mm in the absence of other cracks

(cont.)

Wood defects in accordance with GOST 2140-81	Standards for limits of defects in sawn timber for grades		
	1 st	2nd	3rd
2.3. Sawn timber face and edge through, including on the end face	$\frac{1}{20}$	Allowed with the total length up to: $\frac{1}{10}$ of sawn timber length	
2.4. Circular shake	Not allowed	Allowed length up to: $\frac{1}{20}$ Lengths of sawn timber	
2.5. End face	Allowed with a depth up to $\frac{3}{4}$ of the width of the sawn timber	Allowed with a depth not over the width of the sawn timber	Allowed
3. Inclination of fibers	Allowed, %, up to: 5		Allowed
4. Knottiness	Allowed up to $\frac{1}{4}$ area of sawn timber face	10	Allowed
5. Sprouting			
5.1. One-sided	Allowed with a length and width up to: $\frac{1}{20}$ of a length and width of sawn timber	$\frac{1}{10}$	Allowed
5.2. Through	Not allowed	Allowed $\frac{1}{10}$ of a lengths and width of sawn timber	Allowed
6. Internal sapwood	Not allowed	Allowed	
7. Heart rot – stains and stripes	Not allowed	Allowed up to 10% of the area of sawn timber face	Allowed
8. Brown stain	Not allowed	Allowed, % of the area of sawn timber face, up to: 5	
9. Mildew	Allowed as separate stains and strips	Allowed	

Wood defects in accordance with GOST 2140-81	Standards for limits of defects in sawn timber for grades		
	1st	2nd	3rd
10. Sap stains (blue and sap stains)			
10.1. Surface	Allowed as separate spots and strips	Allowed	
10.2. Deep	Not allowed	Allowed, %, up to: 10 20 of the area of sawn timber face	
11. Heart and sap wood rot	Not allowed	Allowed as separate spots and strips, %, with the total area up to: in un-edged timber 5 10 in edged timber	
12. External rot-		Not allowed	1.5
13. Damage by parasitic plants and wormhole	Allowed surface on waned parts of sawn timber	Allowed on any one-meter section of sawn timber, pieces, up to: 3 5 including not more than one large wormhole deep ones are not allowed in sawn oak timber	
14. Mechanical damage and processing defects	Allowed within the limits of deviations from the stipulated dimensions according to clause 1.4		Allowed
15. Foreign impurities		Not allowed	
16. Saw cut want	Allowed up to 5% respectively of a thickness or width of sawn timber		
17. Wane			
17.1. Blunt	Allowed in edged timber on sawn timber faces and edges with dimension in fractions of a width of the appropriate side up to: $\frac{1}{5}$ $\frac{1}{3}$ $\frac{1}{2}$		

(cont.)

Wood defects in accordance with GOST 2140-81	Standards for limits of defects in sawn timber for grades:		
	1st	2nd	3rd
17.2. Sharp	Not allowed	Allowed on each edge of dimension up to: $\frac{1}{4}$ $\frac{1}{2}$ of sawn timber length	
18. Warp		Allowed, %, up to:	
18.1. Longitudinal on sawn timber face and edge, twist	0.5	1.0	2.0
18.2. Transversal	1.0	2.0	3.0
		of sawn timber width	

Notes:

1. The wood defects, not specified in the table, shall be allowed.
2. Determination, classification and measurement of wood defects shall be in accordance with GOST 2140-81.
3. Wood defects on edges of edged timber with a thickness over 60 mm shall be allowed in accordance with the standards, specified for sawn timber faces.
4. Dimensions of permissible cracks, transversal and longitudinal warp and twist shall be decreased twice for wood moisture content over 22%.
5. Warp on the edge in edged timber is not standardized.
6. The evaluation of quality of sawn timber shall be carried out on the worst sawn timber face and edge.

(Amended Wording, Amendment No. 2).

2.4. Surface roughness parameter of sawn timber R/m_{\max} shall not exceed 1250 microns in accordance with GOST 7016-82.

2.5. Sawn timber of the 3rd grade over 3 m long without defects or with knots appropriate to the standards of the 1st grade and not taken into account on $\frac{1}{2}$ of its length or with defects appropriate to the standards of the 1st grade on $\frac{2}{3}$ of its length shall be considered as the 2nd grade.

2.6. One knot with dimensions specified for the next lower grade shall be allowed in sawn timber over 3 m long.

2.7. Non-parallelism of sawn timber faces and edges shall be allowed within the limits of deviations from the stipulated dimensions specified in this Standard.

2.8. In edged sawn oak timber of the 1st and 2nd grades, sapwood shall be allowed with dimension of $\frac{1}{2}$ thickness and accordingly $\frac{1}{3}$ and $\frac{1}{2}$ length of sawn timber. In the 3-rd grade, sapwood shall be allowed.

2.9. Sawn timber shall be sorted according to wood species, dimensions and grades.

p. 8 GOST 2695-83

2.10. Wood species, grade, type of processing, thickness dimensions, and for edged timber also width dimensions shall be indicated in the customer's specifications.

3. ACCEPTANCE PROCEDURE AND QUALITY CONTROL

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

4. MARKING, PACKING, TRANSPORTATION AND STORAGE

4.1. Marking, packing and transportation of sawn timber shall be carried out in accordance with GOST 6564-84 and GOST 19041-85, dimensions of packages of sawn timber shall be in accordance with GOST 16369-80. Storage of sawn timber shall be in accordance with GOST 7319-80 and GOST 19041-85.

DETAILS

1. DEVELOPED AND SUBMITTED by the USSR Ministry of the Wood, Cellulose-Paper and Wood-Working Industry

DEVELOPERS

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2. APPROVED AND INTRODUCED by Decree No. 1526, dated 30.03.83, of USSR State Committee for Standards

3. This Standard includes all requirements of CMEA Standard 2370-80, CMEA Standard 2371-80 and CMEA Standard 2812-80.

4. REFERENCE DOCUMENTATION

Number of reference document referred to	Number of clause, note
GOST 2140-81	Table, note 2
GOST 6564-84	3.1, 4.1
GOST 6782.2-75	1.3
GOST 7016-82	2.4
GOST 7319-80	4.1
GOST 10950-78	2.2
GOST 16369-80	4.1
GOST 18288-77	1.1
GOST 10941-85	4.1
GOST 24454-80	1.5

5. Term is extended by USSR Gosstandart Decree No. 355, dated 25.02.88, until 01.01.94

6. REVISED EDITION (May, 1988) with Amendment Nos. 1 and 2, approved in May, 1985, February, 1988 (IUS [Standards Information Catalog] 8-85, 5-88).

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