Russian softwood FSF plywood (highly water-resistant plywood) GOST 3916.2-96



Permitted not more than 3 wood and manufacturing defects such as:

- lack of veneer, defects of panel edges due to sanding or trimming not more than 2 mm

pin knots, sound intergrown light and dark knots, with diameter not more than 15 mm, partially intergrown, dead and loose knots, knot-holes, worm-hole with diameter not more than 6 mm — 3 per sq m

- splits max length 200 mm

Permitted not more than 6 wood and manufacturing defects such as:

 $-\!\!\!-$ pin knots, sound intergrown light and dark knots, with diameter not more than 25 mm

partially intergrown, dead and loose knots, knot-holes, worm-hole with diameter not more than 6 mm - 6 per sq m
splits max length 200 mm

- lap max length 100 mm
- lack of veneer on edges not more than 4 mm

— glue tape, glue bleed-through, not more than 2 %, pinholes, low spots, grain tear-out, not more than 5 %

- wood inlay patches



Permitted not more than 9 wood and manufacturing defects such as:

pin knots, sound knots, without limitations in diameter — partially intergrown, dead and loose knots, knot-holes, worm-hole with diameter not more than 6 mm — 10 per sq m
open splits max length 300 mm or filled with putty max length 600 mm

- lap max length 200 mm
- lack of veneer, defects of panel edges not more than 200 mm
- glue bleed-through not more than 5%
- grain tear-out not more than 15 %
- gap in slice joint max width 2 mm
- wood inlay patches without limitations

Quality standard GOST 3916.2-96

Description of wood and manufacturing defects as per GOST 39427	Face veneer grade			Description of wood and manufacturing defects as	Face veneer grade			
	lx	llx	IIIx	per GOST 39427	lx	llx	IIIx	
1 Pin knots		Permitted				Permitted, max width (mm)		
2 Sound intergrown light and dark knots	Permitted, max diameter (mm)					6		
	20	40	60	7 Dark inbark	Not permitted	max length (mm)		
	not more than 10 per sq. m.	40				50 100		
	Heart splits over 1.0 mm wide should be filled with	without limitations		8 Gum streak	Not permitted	Permitted, max width (mm)		
	putty.					6		
3 Partially intergrown, dead and loose knots, knotholes, worm-holes	Peri	mitted, max diameter (mm)		o dum streak	Not permitted	max length (mm)		
	6	6	40			50	100	
	Permitted with diar	meter (mm) un to	without limitations	0 Cum nackat	Not permitted	Permitted, max width (mm)		
	r chilited with dialicter (hill) up to			9 Gum pocket	Not permitted	6	75	
	10	15	in regard to quantity					
	not more than			10 Deviation in wood	Permitted			
	3	6		structure				
	per sq. m			11 Sound discoloration		Dournitted		
	if filled with putty.				Permitted, not more than 30%			
4 Tight splits		Permitted			of total panel surface			
5 Open splits	Permitted, max length (mm)					<u> </u>		
	250	400	600	12.11				
	max width (mm)			12 Unsound	Not permitted			
	3	5	10	discoloration				
		imited to the number of		12 D	Mint as a state of			
	2	3	3	13 Decay	Not permitted			
	per m of the panel width			14 Pinnoles	Printoles Permitted among item 3 of the presen		it table	
						Permitted, ma		
	if filled with putty			15 Lap	Not permitted	200 max number per	400 m of papel width	
	Permitted					3		
		I CHIIILCU				5	5	

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Description of wood and manufacturing defects as per GOST 39427	Face veneer grade			Description of wood and manufacturing defects as per GOST 39427	Face veneer grade			
			55427	lx		llx	IIIx	
	lx	llx	IIIx	24 Metal particles	Not permitte	ed	Non-ferrous metal stap	oles are permitted
16 Lack of veneer, defects of panel edges due to sanding or trimming	Permitted, max distance from the edge (mm)					Permitted, max width (mm)		
	2		5				3	10
		4					max number	
17 Glue tape	Permi	tted only for unsanded plywo	od	25 Gap in slice joint	Not permitted 1 2			
18 Glue bleed-through	Not permitted	Permitted, not more than					if filled with putty	
		5	10					
		% of panel surface		26 Delamination,	Not permitted			
19 Scratches	Not permitted	Permitted		bumps, bark				
20 Low spots, imprints, untrimmed edges	Not permitted	Permitted, height (depth) within the tolerance limits for thickness		sanded plywood), woolly grain, pleats	Not permitted Perm		Permitted	
21 Grain tear-out	Not permitted	Permitted, not more than			Max roughness R _m as per GOST 7016 (microns):			
		5	15	28 Surface roughness	202 for sanded plywood			
)/ of the neurol surface			322 for unsanded plywood			
		% of the panel surface		29 Wood inlay patches	Permitted, max size (mm)			
22 Oversanding	Not permitted	Permitted, not more than			60			
		1% of the panel surface			max number			80
23 Warp	Not applicable to plywood under 9 mm thick.				5 without lir			without limitations
	If over 9 mm, then permitted with max sag of 15 mm per m of the diagonal length of the panel				per sq. m of the panel surface			without initiations
				30 Double patch	Not permitted	Permi	tted not more than 1 per sq. n	n of the panel surface

Russian softwood FSF plywood vs. OSB

