

Sanded Plywood Standards

Panel Grade/ Characteristics	A-A	A-B	A-C	A-D	B-B	B-C	B-D
Bond Classification	Exterior or Exposure #1	Exterior or Exposure #1	Exterior	Exposure #1	Exterior or Exposure #1	Exterior or Exposure #1	Exterior or Exposure #1
Face Veneer	A	A	A	A	B	B	B
Back Veneer	A	B	C	D	B	C	D
Face Patches	18 boat or sled repairs parrallel to grain	18 boat or sled repairs parrallel to grain	18 boat or sled repairs parrallel to grain	18 boat or sled repairs parrallel to grain	Shim, sled, or router repair with small knots permitted	Shim, sled, or router repair with small knots permitted	Shim, sled, or router repair with small knots permitted
Back Patches	18 boat or sled repairs parrallel to grain	Shim, sled, or router repair with small knots permitted	Tight knot to 1 1/2" with knotholes less than 1", sanding defects allowed	Knots and knotholes to 2 1/2" allowed, limited splits permitted.	Shim, sled, or router repair with small knots permitted	Tight knot to 1 1/2" with knotholes less than 1", sanding defects allowed	Knots and knotholes to 2 1/2" allowed, limited splits permitted.
Repair Material	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic
Common Sizes	1/4", 11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	1/4", 11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	1/4", 9/32", 11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	1/4", 11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	1/4", 11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	1/4", 9/32", 11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	1/4", 9/32", 11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"
Usage	Where both faces will be visible; cabinets and built in furniture	One visibile side with strength still important	One visible side important such as soffits or interior applications	One visible side important such as paneling, built-ins, or shelving	Utility panel with two solid sides	Utility panel for containers and truck linings or base for exterior coatings	Utility panel for backing or base shelving
Common Species	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine
Marine Grade Available	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Number							
Panel Size	Minimum number of plies	Minimum number of layers					
Through 3/8"	3	3					
Over 3/8" through 1/2"	4	3					
Over 1/2" through 7/8"	5	5					
Over 7/8"	6	6					

Performance Rated Panel Standards

Panel Grade/ Characteristics	C-C Plugged	C-C	C-D	OSB	Texture 1-11	Sturd-I-Floor	Underlayment
Bond Classification	Exterior	Exterior	Interior and Exposure #1	Exposure #1	Exterior	Exposure #1	Interior and Exposure #1
Face Veneer	Improved C	C	C	N/A	B	Improved C	Sanded Face
Back Veneer	C	C	D	N/A	B	C	C
Face Patches	Yes	Yes	Yes	N/A	303-6 allows 6, 303-18 allows 18, 303-30 allows 30	Yes	Yes
Back Patches	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Repair Material	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic	Wood or Synthetic
Common Sizes	11/32", 3/8", 1/2", 19/32", 5/8", 23/32", and 3/4"	11/32", 3/8", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	5/16", 3/8", 7/16", 15/32", 1/2", 19/32", 5/8", 23/32", and 3/4"	1/4", 7/16", 15/32", 19/32", 5/8", 3/4", 7/8" and 1"	11/32", 3/8", 15/32", 1/2", 19/32", and 5/8"	19/32", 5/8", 23/32", 3/4", 1", and 1 1/8"	1/4", 11/32", 3/8", 1/2", 19/32", 5/8", 23/32", and 3/4"
Usage	Exterior application where one side is visible and under flooring	Exterior application where one side is visible	Wall or roof sheathing where NO long term exterior exposure exists	Wall or roof sheathing and subflooring where NO longterm exposure exists	Siding with permanent exposure to weather	Subfloor application for high impact floor loads	Interior applications for smooth under carpet or resilient floors
Span Rating	Vary by thickness	Vary by thickness	Vary by thickness	Vary by thickness	Vary by thickness	Vary by thickness	Vary by thickness

Common Species	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	Douglas Fir and Pine	
Structural 1 Option	Yes	Yes	Yes	Yes	N/A	Yes		
APA Ratings	Sheathing	Sheathing	Sheathing	Sheathing and Flooring	Siding	Flooring	Flooring	
APA Sheathing Span Rating		APA Sturd-I-Floor Rating						
Panel Span	Minimum number of plies		Panel Span	Minimum number of plies				
12/0	5/16"		16" OC	19/32", 5/8"				
16/0	5/16"		20" OC	19/32", 5/8"				
20/0	5/16"		24" OC	23/32", 3/4"				
24/0	3/8"		32" OC	7/8"				
24/16	7/16"		48" OC	1 3/32", 1 1/8"				
32/16	15/32", 1/2"							
40/20	19/32", 5/8"							
48/24	23/32", 3/4"							
60/32	7/8"							