



SWANPLY™ Industrial Panel



- Proprietary Hardwood with range of natural colors. Lacey Act Approved
- Enhanced panel stability using SwanPeel® Technology
- Panels are exempt from TSCA Title VI (Toxic Substances Control Act)
- NAUF – meets CARB requirements
- No wood repairs – Natural color variation
- Calibrated thickness ideal for lamination

SwansonGroup® provides the highest proven performance in panel solutions. Customers recognize our exceptional history of performance, exhibited in our panel solutions.

We are now enhancing our capability to provide superior panel performance. “SwanPeel”® Technology provides a smoother surface: less grain show through, and improved glue and overlay bond. “SwanPeel”® Technology reduces thickness variability: resulting in an enhanced balanced construction, tighter core lines, and dimensional stability.

Swanson is manufacturing overlay panels in a new state-of-the-art facility - the most technologically advanced operation in North America.

Advantages vs Doug Fir or Import Sanded Panels:

Swanply™ is designed to provide a smooth natural wood grain surface for wide variety of applications while respecting the environment. Panel can be calibrated for specific thickness depending on end use requirements.

Product Description:

Swanply™ is an industrial sanded plywood panel. A proprietary hardwood face provides an extremely smooth and uniform working surface. Ideal for lamination and painting due to our unique calibration techniques. Douglas Fir inner plies provide excellent Strength and Stiffness for a wide range of uses.

Panel Construction:

Swanply™ is constructed of a proprietary hardwood depending on your color requirements for face and back with Douglas Fir/Hemlock inner plies. It is manufactured with a two-step® layup using our SwanPeel® Technology, has a waterproof glue bond and meets APA PS 1-19. All Swanson products are made in the USA.

Working Edges/Treatment:

- Edges and Ends should be sealed to minimized sudden changes in moisture content due to weather.
- Edge-seal with a liberal application of a paintable, water-repellent sealer.

Thicknesses & Sizes:

Available in 11/32” and thicker. Standard panel size is 4’x8’, 4’x9’, 4’x10’

Product Grade:

Standard products are shipped on grade, unless specified otherwise. Shop is identified & priced separately. Shipments of shop may be available. Check with sales.

Panel Applicable Standards:

Panels are manufactured by Swanson Group per Product Standard PS1-19. This standard is available at www.apawood.org.

Technical Data Applicable Standards

All panels are manufactured by Swanson Group® per product standard PS1-19. This standard is available at www.apawood.org.

Panel Tolerances	All
Thickness Tolerance	+/- 1/32” (.031”)
Length & Width Tolerance	+0, -1/16” (.062”)
Squareness	1/16” (.062”)
Straightness	1/16” (.062”)

Panel Average. Product averages vary for individual thicknesses, consult sales or technical staff for exact properties
²All tolerances and specifications apply at the time of manufacture.

Physical Properties	3/8" to 1/2"	5/8" to 3/4"
Modulus of Rupture ^{2,3}	6,900 psi	6,800 psi
Modulus of Elasticity ^{2,3}	846,890 psi	892,720 psi
Lineal Expansion ^{2,3}	.045%	.056%
Thickness Swell	3.4%	3.4%
Water Absorption (24-Hours)	6.0%	6.0%
Internal Bond ²	173 psi	185 psi
Shelf Stiffness EI ASTM D-3043 C	68,280 lb-in ² /ft ⁶	602,180 lb-in ² /ft ⁶
Shelf Bending FbS ASTM D-3043 C	1,625 lb-in/ft ⁶	6,420 lb-in/ft ⁶
Face Screw Holding ²	414 lbs.	432 lbs.
Edge Screw Holding ²	Not Applicable	418 lbs.
Moisture Content ² ASTM D-1037	6-9%	6-9%
Specific Gravity ² ASTM D-1037	.572	.592
Density ² ASTM D-1037	35.6 lbs./ft. ³	36.9 lbs./ft. ³
Flame Spread ASTM E-84	76 - 200 ⁵	76 - 200 ⁵
Smoke Developed ASTM E-84	25 - 270 ⁵	25 - 270 ⁵
Flame/Smoke Spread Rating E-84	Class C	
Formaldehyde Level E-1333	<0.01 parts/million	

¹5-panel average. Product averages vary for individual thicknesses, consult sales or technical staff for exact properties.
²All tolerances and specifications apply at the time of manufacture.

³ANSI 208.1 test result.

⁴Calculations based on test averages of along and across grain.

⁵Shelving physical properties based on engineering calculations.

⁶Flame and smoke spread properties based on engineering calculations.

⁷Shelving stiffness/bending properties are based on a limited 5-panel average.

Note: All tolerances and specifications apply at the time of manufacture.

Note: Product averages vary for individual thicknesses. Consult sales or technical offices for exact properties.

Swanply™ Shelving Load Span Table:

Table 1 - Face Grain Across Supports - Multiple Spans ¹ Panel v276						
Span ¹	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	1,899	1,899	2,340	2,340	2,870	2,870
8"	730	730	900	900	1,104	1,104
12"	414	414	557	557	683	683
16"	233	233	367	367	495	495
19.2"	155	162	255	255	405	405
24"	80	104	163	163	307	307
30"	41	54	85	104	170	196
32"	33	44	70	92	141	173
36"	23	31	49	66	100	133
40"		22	36	48	73	98
48"			24	32	49	65
60"					24	32

Table 2 - Face Grain Parallel to Supports - Multiple Spans ¹ Panel v276						
Span ¹	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	1,457	1,457	1,811	1,811	2,208	2,208
8"	560	560	696	696	849	849
12"	307	307	431	431	526	526
16"	173	173	289	289	381	381
19.2"	111	120	201	201	312	312
24"	55	74	128	128	230	230
30"	28	27	82	82	129	147
32"	23	30	71	72	106	129
36"		21	50	57	74	99
40"			36	46	54	72
48"			24	32	35	47

Table 3 - Face Grain Across Supports - Single Spans ² Panel v276						
Span ²	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	2,374	2,374	2,926	2,926	3,588	3,588
8"	913	913	1,125	1,125	1,380	1,380
12"	307	410	609	652	854	854
16"	125	167	257	343	507	619
19.2"	71	94	147	197	296	394
24"	35	47	74	99	151	202
30"		23	37	50	77	102
32"			31	41	63	84
36"			21	28	44	59
40"				20	32	42
48"					21	28

Table 4 - Face Grain Parallel to Supports - Single Spans ² Panel v276						
Span ²	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	1,822	1,822	2,263	2,263	2,760	2,760
8"	690	690	870	870	1,062	1,062
12"	221	295	514	514	657	657
16"	87	116	270	289	395	476
19.2"	48	64	152	201	224	299
24"	24	32	75	100	112	149
30"			37	50	56	74
32"			30	41	46	61
36"			21	28	32	42
40"				20	23	30

Maximum allowable loads are psf. Uniform loading is assumed. Loads are for dry conditions. For wet conditions, reduce loads approximately 25%. Inquire for precise data. Basic allowable stresses (bending F b and shear F s) increase 15% for shelving use per the APA experience factor. Pallet design normally is based on higher allowable loads than given. NOTES: ¹Spans are center-to-center of supports. ²Span is out-to-out of supports. Allow for 1-1/2" supports on each end.

Limitations: Do not exceed shelving span table design limitations.

Suitability for Use and Warranty:

Nothing herein constitutes a warranty express or implied, including any warranty of merchantability or fitness for use, nor is protection from any law or patent to be inferred. The exclusive remedy for all claims is replacement of materials. Contact Swanson Group® for a copy of the complete Swanson Terms and Conditions of Sale.

Warehouse Storage and Handling:

- Store in a dry, clean, well-ventilated area indoors
- Avoid temperatures and moisture extremes. Allow panels to equalize for 72 hours or more before use
- Pieces must not be stored in contact with the ground
- Limit the stacking height to four or five units. Separate units with clean, dry spacers refully. Use three spacers for panels 8' long, four or five spacers for longer panels.

Environmental Impact:

- Swanson Group® uses process by-products to produce energy
- Swanson products are renewable, biodegradable and recyclable

Warnings:

This product will generate wood dust from sawing, sanding, or shaping. Safety data sheets are available on Swanson's website at www.swansongroup.biz and upon request. Structural panels (PS-1) are exempt from California Air Resources Board regulations, however, this product is below CARB limits for all uses.

Find out more at www.swansongroup.biz



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