



- Uniform surface for high quality paints
- Solid Inner Plies
- Premium A face averaging 9 wood repairs
- Waterproof exterior bonds for marine applications
- High face/edge screwholding
- NAUF - meets CARB requirements

Product Description:

Swanson Sanded Marine provides a beautiful finish-quality surface for all kinds of applications. Ideal for marine applications.

Panel Construction/Moisture Resistance:

Swanson Sanded Marine is specially designed plywood panel made only with Douglas-fir and highly restrictive limitations on core gaps and face repairs. It is manufactured with a waterproof glue bond and is manufactured to APA PS 1. See APA Sanded Product Guide K435F for marine grades.

Applications:

- Boat Hulls
- Marine Applications
- Cosmetic needs where limited face repairs are required
- Solid inner plies are required

Limitations:

Swanson Sanded Marine is not a finished product. It requires priming, two top coats and two edge coats for prolonged exposure in exterior applications.

Thicknesses & Sizes:

Swanson Sanded Marine is available in 1/2" – 1" thickness. Standard panel sizes are 4'x8' only.

Standard Packaging:

Thickness	Sanded Marine Average Weight* lbs./Panel	Pieces per Unit
3/8"	35.0	88
1/2"	50.0	66
5/8"	64.0	50
3/4"	67.0	44

*Average product weights may vary +/- 10%

Technical Data Applicable Standards

All panels are manufactured by Swanson Group® per product standard PS1.

Physical Properties	3/8" to 1/2"	5/8" to 3/4"
Modulus of Rupture ^{2,3}	6,670 psi	6,860 psi
Modulus of Elasticity ^{2,3}	795,050 psi	853,565 psi
Lineal Expansion ^{2,3}	0.056%	0.050%
Thickness Swell	3.8%	3.8%
Water Absorption (24-Hours)	6.0%	6.0%
Internal Bond ²	180 psi	134 psi
Shelf Stiffness EI ASTM D-3043 C	74,770 lb-in ² /ft ⁶	606,720 lb-in ² /ft ⁶
Shelf Bending FbS ASTM D-3043 C	1,615 lb-in/ft ⁶	6,460 lb-in/ft ⁶
Face Screw Holding ²	430 lbs.	449 lbs.
Edge Screw Holding ²	Not Applicable	408 lbs.
Moisture Content ² ASTM D-1037	6-9%	6-9%
Specific Gravity ² ASTM D-1037	.592	.527
Density ² ASTM D-1037	36.9 lbs./ft. ³	32.9 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	

Panel Tolerances ²	3/8" to 3/4"
Thickness Tolerance	+/- 1/32" (.031")
Length & Width Tolerance	+0, -1/16" (.062")
Squareness	1/16" (.062")
Straightness	1/16" (.062")

¹5-panel average. Product averages vary for individual thicknesses, consult sales or technical staff for exact properties.²

All tolerances and specifications apply at the time of manufacture.

²ANSI 208.1 test result.

³Calculations based on test averages of along and across grain.

⁴Shelving physical properties based on engineering calculations.

⁵Flame and smoke spread properties based on engineering calculations.

⁶Shelving 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.

Product Grade

Standard product is shipped on grade only.

Finishing Instructions

General: Select companion products that are designed to be used together and preferably from the same manufacturer. Two topcoats will provide significant improvement in the life and performance of the finish.

Always use finishes formulated for wood and follow the manufacturer's recommendations for best results.

- House paints require at least two coats, a primer and topcoat. Primers are formulated specifically for controlled penetration, optimum bonding to the substrate, and minimal extractive staining.
- Some acrylic latex systems use oil or oil-alkyd primer followed by the acrylic latex topcoat.
- Other systems use one or two coats of a stain-blocking acrylic latex primer and generally offer superior performance.

Semitransparent Stains: Highly recommended where both color and show-through of the grain and natural wood characteristics are desired. When light colors are used, only oil-based semitransparent stains are recommended. These help prevent discoloration of the finish caused by natural water-soluble compounds (called extractives) in the wood.

- Lighter colored latex stains usually require a stain-resistant undercoat to prevent discoloration of the finish by extractives.

Edge Treatment: All edges of plywood panels used for exterior applications should receive edge protection to minimize the effects of moisture absorption. Use the same exterior paint primer for the edges that will be used on the face.

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.

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
- Separate units with clean, dry spacers of uniform thickness, aligned carefully. Use three spacers for panels 8' long, five spacers for 10' panels. Use 5 spacers on 1/2" thickness or less.

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

Load Tables are based on APA & PS1 Criteria

Struct 1 UNIFORM LOAD TABLES – DRY CONDITIONS Recommended Maximum PSF on Struct 1 Panels Marine								
Face Grain <i>Perpendicular</i> to Supports ¹								
Support Spacing	Plywood Thickness – Allowable Pressure (PSF)							
	1/2" 5 ply		5/8" 7 ply		3/4" 7 ply		1" 9 ply	
(in.)	ℓ/360	ℓ/240	ℓ/360	ℓ/240	ℓ/360	ℓ/240	ℓ/360	ℓ/240
12"	392	392	558	558	679	679	895	895
16"	220	220	314	314	382	382	609	609
19.2"	125	153	206	218	265	265	423	423
24"	61	91	100	140	154	170	271	271
30"	30	45	49	73	75	113	162	173
Face Grain <i>Parallel</i> to Supports ¹								
Support Spacing	Plywood Thickness – Allowable Pressure (PSF)							
	1/2" 5 ply		5/8" 7 ply		3/4" 7 ply		1" 9 ply	
(in.)	ℓ/360	ℓ/240	ℓ/360	ℓ/240	ℓ/360	ℓ/240	ℓ/360	ℓ/240
12"	67	101	211	271	471	471	895	895
16"	25	38	79	119	188	265	539	539
24"			27	40	64	94	182	192

Notes: ¹Plywood continuous across two or more spans
Normal duration of Load - Maximum loads controlled by bending and shear capacity.
These are total loads (weight of panel should be considered in horizontal applications)
Reference: Load-Span Tables for APA Wood Structural Panels Q225H Table 3 and Table 5 for Factors



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