



HOW TO CHOOSE INDUSTRIAL PANELS



Product Brand Name	DecraGuard®	Cabinet Liner™	Tuf-Tred®	SkidGuard®	Tempered Plyron®	Standard Plyron®
Description	Premium decorative, polyester overlaid plywood with exceptional surface durability for high humidity, structural, interior applications	Economical, decorative, polyester overlaid plywood with exceptional surface durability for high humidity, structural, interior applications	Skid-resistant, textured, poly-glass overlaid plywood with superior skid resistance, surface durability and weatherability	Slip-resistant, waffle weave embossed, High Density Overlaid plywood with excellent skid resistance, durability & weatherability	Impact resistant, hardboard faced plywood with excellent paintability and printability	Hardboard faced plywood with superior paintability and printability
Panel Construction	Polyester overlay on hardwood faced plywood with Douglas Fir/Hemlock inner plys; 2 Step layup; Made in the USA; Meets APA PS 1-07	Polyester overlay on hardwood faced plywood with Douglas Fir/Hemlock inner plys; 2 Step layup; Made in the USA; Meets APA PS 1-07	Embossed Poly-glass plywood with Douglas Fir/Hemlock construction; 2 Step layup; Made in the USA; Meets APA PS 1-07	Embossed HD Overlay plywood with Douglas Fir construction; 2 Step layup; Made in the USA; Meets APA PS 1-07	Tempered hardboard on plywood with Douglas Fir/Hemlock inner plys; 1 Step layup; Made in the USA; Meets APA PS 1-07	Standard hardboard on plywood with Douglas Fir/Hemlock inner plys; 1 Step layup; Made in the USA; Meets APA PS 1-07 certified
Features and Benefits	<ul style="list-style-type: none"> Ready to use, no finishing required Durability similar to HP laminates High strength, light weight Waterproof bond = water/humidity resistance High Face/Edge screwholding Very low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Economical, ready to use No further finishing required Durability similar to HP laminates High strength, light weight Waterproof bond = water/humidity resistance High Face/Edge screwholding Very low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Superior wet skid resistance Exceptional weatherability & wear No further finishing required High strength, light weight Waterproof bond = water/humidity resistance High Face/Edge screwholding Very low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Excellent skid resistance for light commercial/residential wear No further finishing required High strength, light weight Waterproof bond = water/humidity resistance High Face/Edge screwholding Very low formaldehyde; meets CARB 	<ul style="list-style-type: none"> High impact & wear resistance Grain free with superior paintability High strength, light weight Waterproof bond = water/humidity resistance High Face/Edge screwholding Very low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Grain free with superior paintability High strength, light weight Waterproof bond = water/humidity resistance High Face/Edge screwholding Very low formaldehyde; meets CARB
Applications:	<ul style="list-style-type: none"> Marine bulkheads, chart tables, etc. Furniture, cabinets, displays, fixtures, shelving & partitions Pallets, bins, totes, crates & reels Soffit & fascia; Garage doors Transport liners/doors & boat seats Agricultural/Industrial wall lining 	<ul style="list-style-type: none"> Furniture Cabinets, displays, fixtures Shelving & partitions 	<ul style="list-style-type: none"> Dock, wharf & boat decks Wheelchair & truck ramps, walkways for portable classrooms Pool & spa decking, swim platforms Bleacher, scaffold plank Catwalks & factory floors Stage & theatre deck 	<ul style="list-style-type: none"> Residential balconies & decks Pool & spa decking Steps, platforms & walkways Portable stages Machinery and truck decking Boat seats & floors Sports surfaces & Velodromes 	<ul style="list-style-type: none"> Wear-resistant flooring panels Stage & theatre floors High Face/Edge casework Cabinets, displays & fixtures Shelving & partitions 	<ul style="list-style-type: none"> Furniture & Casework Cabinets, Displays, Fixtures Shelving & Partitions
Glue bond	Waterproof glue bond	Waterproof glue bond	Waterproof glue bond	Waterproof glue bond	Waterproof glue bond	Waterproof glue bond
Working Faces	1 or 2 faces 1 face with HDO backer	1 or 2 faces 1 face with HDO back	1 face only with HDO back	1 face only with HDO back	2 faces only	2 faces only
Colors and Surface Finishes	Solid: White & Opti-Gray (non-stock) Grain Print: Magnum Teak and Golden Natural Oak Other colors & finishes are available Velvet finish is hard, durable and low maintenance.	Solid: China White Other colors & finishes are available Velvet finish is hard, durable and low maintenance.	Solid: Tan	Solid: Natural (yellow) or Black	Natural Tempered Hardboard	Natural Standard Hardboard
Working Edges	Factory sawn, no factory edge seal Seal for moist/humid environments	Factory sawn, no factory edge seal Seal for moist/humid environments	Factory sawn, no factory edge seal All edges must be sealed	Factory sawn, no factory edge seal All edges must be sealed	Factory sawn, no factory edge seal Seal for moist/humid environments	Factory sawn, no factory edge seal Seal for moist/humid environments
Product Size Specifications						
• Thicknesses	5/16", 3/8", 1/2", 5/8" & 3/4"	3/8", 1/2", 5/8", 3/4" & 1"	5/8", 3/4", 1" & 1-1/8"	3/8", 1/2", 5/8", 3/4", 1" & 1-1/8"	1/2", 5/8" & 3/4"	1/2", 5/8" & 3/4"
• Widths/Lengths	4' X 8' only					
Load Performance	Shelf span tables are available		Shelf span tables are available		Load span tables are available	
Physical Properties per ANSI 208.1¹	3/8" to 1/2"	3/4"	3/8" to 1/2"	5/8" to 1-1/8"	5/8"	3/4" to 1"
• Modulus of Rupture ^{2,3}	6,905 psi	7,544 psi	6,670 psi	6,860 psi	6,402 psi	6,361 psi
• Modulus of Elasticity ^{2,3}	846,890 psi	879,603 psi	795,050 psi	853,565 psi	953,304 psi	921,180 psi
• Lineal Expansion ^{3,4}	0.045%	0.042%	0.056%	0.050%	0.048%	0.048%
• Thickness Swell	3.4%	3.4%	3.8%	3.8%	4.2%	4.2%
• Water Absorption (24 Hours)	6.0%	6.0%	6.0%	6.0%	6.6%	6.6%
• Internal Bond ²	173 psi	206 psi	180 psi	134 psi	171.3 psi	153.6 psi
• Shelf Stiffness EI ASTM D-3043 C	68,280 lb-in ² /ft ³	322,465 lb-in ² /ft ³	74,770 lb-in ² /ft ³	606,720 lb-in ² /ft ³	244,738 lb-in ² /ft ³	773,248 lb-in ² /ft ³
• Shelf Bending FbS ASTM D-3043 C	1,625 lb-in/ft ³	4,785 lb-in/ft ³	1,615 lb-in/ft ³	6,460 lb-in/ft ³	3,452 lb-in/ft ³	6,707 lb-in/ft ³
• Face Screw holding ²	414 lbs	454 lbs	430 lbs	449 lbs	548 lbs	446 lbs
• Edge Screw holding ²	Not Applicable	422 lbs	Not Applicable	408 lbs	400 lbs	365 lbs
• Moisture Content ² ASTM D-1037	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%
• Specific Gravity ² ASTM D-1037	.572	.592	.592	.527	.615	.536
• Density ² ASTM D-1037	35.6 lbs/ft ³	36.9 lbs/ft ³	36.9 lbs/ft ³	32.9 lbs/ft ³	38.4 lbs/ft ³	33.6 lbs/ft ³
• Janka Hardness ² ASTM D-1037	Not Applicable	Not Applicable	Not Applicable	Not Applicable	1102 lbs	953 lbs
• NEMA tests	See literature sheet or website					
• Slip Resistance ² ASTM F-1677	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
• Flame Spread ASTM E-84	76 - 200 ³	76 - 200 ³	Not Applicable	Not Applicable	.94	.94
• Smoke Developed ASTM E-84	25 - 270 ³	25 - 270 ³	25 - 270 ³	25 - 270 ³	135	135
• Flame/Smoke spread rating E-84	Class C		Class C		Class B	
• Formaldehyde (Large Chamber)	0.01 parts/million		0.01 parts/million		0.02 parts/million	
Panel Tolerances⁵						
• Thickness Tolerance	3/8" to 3/4" = +/- 1/64" (.016")		3/8" to 3/4" = +/- 1/32" (.031") 13/16" & greater = +/- 5%		3/8" to 3/4" = +/- 1/32" (.031") 13/16" & greater = +/- 5%	
• Length & Width Tolerance	+0, -1/16" (.062")		+0, -1/16" (.062")		+0, -1/16" (.062")	
• Squareness	1/16" (.062")		1/16" (.062")		1/16" (.062")	
• Straightness	1/16" (.062")		1/16" (.062")		1/16" (.062")	

¹ 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 limited 5 panel average. See web site for load table ⁶Flame and Smoke spread properties based on engineering calculations ⁷Shelving stiffness/bending properties are based on a limited 5 panel average