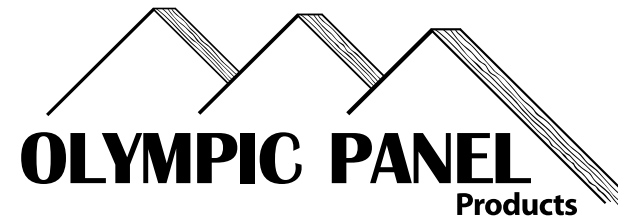
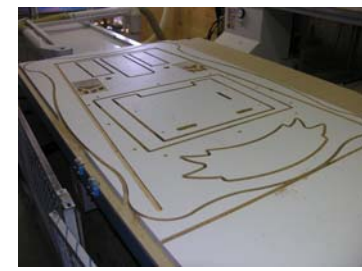




HOW TO CHOOSE COST EFFECTIVE INDUSTRIAL PANELS



INDUSTRIAL PANELS



Product Brand Name	DecraGuard®	Cabinet Liner™	Tuf-Tred®	SkidGuard®	Tempered Plyron®	Pre-Primed MDO	Crezon/Two-Step MDO	Guardian® MDO
Description	Premium decorative, polyester overlaid plywood with exceptional surface durability for high humidity, structural, interior uses	Economical, decorative, polyester overlaid plywood with exceptional surface durability for high humidity, structural, interior uses	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 and weatherability	Impact resistant, hardboard faced plywood with excellent paintability and printability	Proprietary, thermo-set, acrylic, primed MDO which is applied to 2 step, Douglas Fir/Hemlock plywood.	Premium, unfinished, paint grade, medium density overlaid plywood which provides a superior surface for finishing.	Economical, paint grade, medium density overlaid plywood provides a good surface for finishing.
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	Proprietary, thermo-set acrylic primer applied to MDO Doug Fir/Hemlock plywood; 2 Step layup; Made in the USA; Meets APA PS 1-07	Medium Density Overlaid Douglas Fir/Hemlock plywood; 2 Step layup; Made in the USA; Meets APA PS 1-07	Medium Density Overlaid Douglas Fir/Hemlock plywood; 2 Step layup; Made in the USA; Meets APA PS 1-07
Features and Benefits	<ul style="list-style-type: none"> Ready to use, no finish required Durability similar to HP laminate High strength, light weight Bond = water/humidity resistant High Face/Edge screwholding Low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Economical, ready to use No further finishing required Durability similar to HP laminate High strength, light weight Bond = water/humidity resistant High Face/Edge screwholding 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 Bond = water/humidity resistant High Face/Edge screwholding 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 Bond = water/humidity resistant High Face/Edge screwholding Low formaldehyde; meets CARB 	<ul style="list-style-type: none"> High impact & wear resistance Grain free w/superior paintability High strength, light weight Bond = water/humidity resistant High Face/Edge screwholding Low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Smooth surface for enamels Pre-primed saves time & labor Superior surface & life High strength, light weight Bond = water/humidity resistant High Face/Edge screwholding Low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Economical, uniform smooth surface for high quality paints Superior surface & life High strength, light weight Bond = water/humidity resistant High Face/Edge screwholding Low formaldehyde; meets CARB 	<ul style="list-style-type: none"> Economical, standard MDO panel Easily painted Durable surface High strength, light weight Bond = water/humidity resistant High Face/Edge screwholding Low formaldehyde; meets CARB
Applications:	<ul style="list-style-type: none"> Marine bulkheads & chart tables Furniture, cabinets, displays, fixtures, shelving & partitions Pallets, bins, totes & crates 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 Pool & spa decking, swim decks Bleachers, catwalks & factory floors Stage & theatre deck 	<ul style="list-style-type: none"> Residential balconies & decks Pool & spa decking Steps, platforms & walkways for portable classrooms Machinery and truck decking Boat seats & floors Sports surfaces & Velodromes 	<ul style="list-style-type: none"> Wear-resistant flooring panels Stage & theatre floors Furniture & casework Cabinets, displays & fixtures Shelving & partitions 	<ul style="list-style-type: none"> Exterior signage & billboards Furniture, cabinets, displays, fixtures, shelving & partitions Soffit, fascia & trim; sports sideboards Truck body & trailer liners/doors 	<ul style="list-style-type: none"> Exterior signage & bill boards Cabinet, display & fixtures Pallets, bins, totes & crates Agricultural & industrial walls Soffit & fascia, noise Truck body & trailer liners & doors, barrier boat seats Theatre/movie set scenery 	<ul style="list-style-type: none"> Exterior signage & bill boards Cabinet, display & fixtures Pallets, bins, totes & crates Agricultural & industrial walls Soffit & fascia, noise Truck body & trailer liners & doors, barrier boat seats Theatre/movie set scenery
Glue bond	Waterproof glue bond	Waterproof 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	1 or 2 faces 1 face with MDO back	1 or 2 faces 1 face w/no or optional back	4": 2 face or 1 face - no back 5": 1 face - no back only
Colors & Surface Finishes	Solid: White & Opti-Gray (NS) Grain Print: Magnum Teak and Golden Natural Oak More colors/finishes available	Solid: China White More colors/finishes available	Solid: Tan	Solid: Natural (yellow) or Black	Natural Tempered Hardboard	Color: off white primer	Unfinished Kraft paper Prime before over coating	Unfinished Kraft paper Prime before over coating
Working Edges	Factory sawn, unfinished Seal for moist/humid conditions	Factory sawn, unfinished Seal for moist/humid conditions	Factory sawn, unfinished All edges must be sealed	Factory sawn, unfinished All edges must be sealed	Factory sawn, unfinished Seal for moist/humid conditions	Factory primed All edges must be sealed	Factory sawn, unfinished All edges must be sealed	Factory sawn, unfinished All edges must be sealed
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"	5/16", 3/8", 1/2", 5/8", 3/4" & 1-1/8"	5/16", 3/8", 1/2", 5/8", 3/4" & 1-1/8"	5/16", 3/8", 1/2", 5/8", 3/4", 1-1/8", 1-1/4" & 1-1/2"
• Widths/Lengths	4' X 8' only	4' X 8' only	4' X 8' only	4' X 8' & 10' only	4' X 8' only	4' X 8' & 10'	4' X 8' & 10'	4' & 5' X 8' & 10'
• Physical Properties ¹	3/8" to 1/2" 3/4"	3/8" to 1/2" 5/8" to 1-1/8"	5/8" 3/4" to 1"	1/2" 1/2"	5/8" to 3/4" 5/8" to 3/4"	3/8" to 1/2" 5/8" to 1-1/8"	3/8" to 1/2" 5/8" to 1-1/8"	3/8" to 1/2" 5/8" to 1-1/8"
• Modulus of Rupture ^{2,3}	6,905 psi 7,544 psi	6,670 psi 6,860 psi	6,402 psi 6,361 psi	6,870 psi 6,870 psi	6,655 psi 6,655 psi	6,670 psi 6,860 psi	6,670 psi 6,860 psi	6,670 psi 6,860 psi
• Modulus of Elasticity ^{2,3}	846,890 psi 879,603 psi	795,050 psi 853,565 psi	953,304 psi 921,180 psi	687,050 psi 687,050 psi	683,860 psi 683,860 psi	795,050 psi 853,565 psi	795,050 psi 853,565 psi	795,050 psi 853,565 psi
• Linear Expansion ^{2,3}	0.045% 0.042%	0.056% 0.050%	0.048% 0.048%	0.080% 0.080%	0.098% 0.098%	0.057% 0.050%	0.057% 0.050%	0.057% 0.050%
• Thickness Swell	3.4% 3.4%	3.8% 3.8%	4.2% 4.2%	9.7% 9.7%	9.25% 9.25%	3.8% 3.8%	3.8% 3.8%	3.8% 3.8%
• Water Absorption (24 Hours)	6.0% 6.0%	6.0% 6.0%	6.6% 6.6%	6.7% 6.7%	6.8% 6.8%	6.0% 6.0%	6.0% 6.0%	6.0% 6.0%
• Internal Bond ²	173 psi 206 psi	180 psi 134 psi	171.3 psi 153.6 psi	169 psi 169 psi	134 psi 134 psi	180 psi 134 psi	180 psi 134 psi	180 psi 134 psi
• Shelf Stiffness (lb-in ² /ft ³)	68,280 322,465	74,770 606,720	244,738 773,248	97,600 97,600	270,460 270,460	74,770 606,720	74,770 606,720	74,770 606,720
• Shelf Bending FbS (lb-in/ft ³)	1,625 4,785	1,615 6,460	3,452 6,707	2,720 2,720	4,720 4,720	1,615 6,460	1,615 6,460	1,615 6,460
• Face Screw holding ²	414 lbs 454 lbs	430 lbs 449 lbs	548 lbs 446 lbs	470 lbs 470 lbs	440 lbs 440 lbs	430 lbs 449 lbs	430 lbs 449 lbs	430 lbs 449 lbs
• Edge Screw holding ²	Not Applicable 422 lbs	Not Applicable 408 lbs	400 lbs 365 lbs	Not Applicable Not Applicable	398 lbs 398 lbs	Not Applicable 408 lbs	Not Applicable 408 lbs	Not Applicable 408 lbs
• Moisture Content ⁴	6-9% 6-9%	6-9% 6-9%	6-9% 6-9%	6-9% 6-9%	6-9% 6-9%	6-9% 6-9%	6-9% 6-9%	6-9% 6-9%
• Specific Gravity ⁴	.572 .592	.592 .527	.615 .536	.784 .784	.686 .686	.592 .527	.592 .527	.592 .527
• Density ⁵	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	49.5 lbs/ft ³ 49.5 lbs/ft ³	43.0 lbs/ft ³ 43.0 lbs/ft ³	36.9 lbs/ft ³ 32.9 lbs/ft ³	36.9 lbs/ft ³ 32.9 lbs/ft ³	36.9 lbs/ft ³ 32.9 lbs/ft ³
• Janka Hardness ⁷	Not Applicable Not Applicable	Not Applicable Not Applicable	1102 lbs 953 lbs	Not available Not available	Not available Not available	Not available Not available	Not available Not available	Not available Not available
• Slip Resistance ⁸	Not Applicable Not Applicable	Not Applicable Not Applicable	.94 .94	Not Applicable Not Applicable	Not Applicable Not Applicable	Not Applicable Not Applicable	Not Applicable Not Applicable	Not Applicable Not Applicable
• Flame Spread	76 - 200 ⁹ 76 - 200 ⁹	76 - 200 ⁹ 76 - 200 ⁹	135 135	76 - 200 ⁹ 76 - 200 ⁹	76 - 200 ⁹ 76 - 200 ⁹	76 - 200 ⁹ 76 - 200 ⁹	76 - 200 ⁹ 76 - 200 ⁹	76 - 200 ⁹ 76 - 200 ⁹
• Smoke Developed	25 - 270 ⁹ 25 - 270 ⁹	25 - 270 ⁹ 25 - 270 ⁹	75 75	25 - 270 ⁹ 25 - 270 ⁹	25 - 270 ⁹ 25 - 270 ⁹	25 - 270 ⁹ 25 - 270 ⁹	25 - 270 ⁹ 25 - 270 ⁹	25 - 270 ⁹ 25 - 270 ⁹
• Flame/Smoke spread rating	Class C	Class C	Class B	Class B	Class C	Class C	Class C	Class C
• Formaldehyde (Large Chamber)	0.01 parts/million	0.01 parts/million	0.02 parts/million	<0.01 parts/million	0.01 parts/million	0.08 Parts/million	<0.01 Parts/million	< 0.01 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%	3/8" to 3/4" = +/- 1/32" (.031") 13/16" & greater = +/- 5%	3/8" to 3/4" = +/- 1/32" (.031") 13/16" & greater = +/- 5%	3/8" to 3/4" = +/- 1/32" (.031") 13/16" & greater = +/- 5%	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")	+0, -1/16" (.062")	+0, -1/16" (.062")	+0, -1/16" (.062")	+0, -1/16" (.062")	+0, -1/16" (.062")
• Squareness	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")
• Straightness	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")	1/16" (.062")

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INDUSTRIAL PANELS

DecraGuard®

Product: Premium decorative, polyester overlaid plywood with exceptional surface durability for high humidity, structural, interior applications.



Features and Benefits

- Ready to use, no finishing required
- Durability similar to HP laminates
- High strength, light weight
- Waterproof bond = water resistance
- High Face/Edge screwholding
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 5/16", 3/8", 1/2", 5/8" & 3/4" Panel Size: 4' X 8'.

Tuf-Tred®

Product: Skid-resistant, textured, poly-glass overlaid plywood with superior skid resistance, surface durability and weatherability.



Features and Benefits

- Economical, ready to use
- No further finishing required
- High strength, light weight
- Waterproof bond = water resistance
- High Face/Edge screwholding
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 5/8", 3/4", 1" & 1-1/8". Panel Size: 4' X 8'.

Cabinet Liner™

Product: Economical, decorative, polyester overlaid plywood with exceptional surface durability for high humidity, structural, interior applications



Features and Benefits

- Economical, ready to use
- No further finishing required
- Durability similar to HP laminates
- High strength, light weight, Excellent screwholding
- Waterproof bond = water resistance
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 3/8", 1/2", 5/8", 3/4" & 1". Panel Size: 4' X 8'.

SkidGuard®

Product: Slip-resistant, waffle weave emboss-ed, High Density Overlaid plywood with excellent skid resistance, durability & weatherability.



Features and Benefits

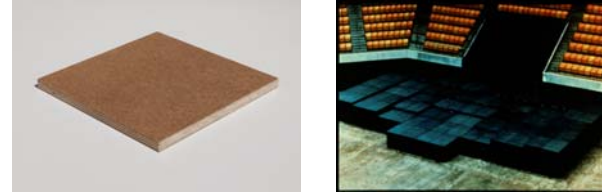
- Excellent skid resistance for light wear
- No further finishing required
- High strength, light weight
- Waterproof bond = water resistance
- High Face/Edge screwholding
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 3/8", 1/2", 5/8", 3/4", 1" & 1-1/8"
Panel Size: 4' X 8' & 10'.

Tempered Plyron®

Product: Impact resistant, hardboard faced plywood with excellent paintability and printability.



Features and Benefits

- High impact & wear resistance
- Grain free with superior paintability
- High strength, light weight
- Waterproof bond = water resistance
- High Face/Edge screwholding
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 1/2", 5/8" & 3/4" Panel Sizes: 4' X 8'.

Standard Plyron®

Product: Hardboard faced plywood with superior paintability and printability.



Features and Benefits

- Grain free with superior paintability
- High strength, light weight
- Waterproof bond = water/humidity resistance
- High Face/Edge screwholding
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 1/2", 5/8" & 3/4" Panel Sizes: 4' X 8'.

MEDIUM DENSITY OVERLAYS

Pre-Primed MDO

Product: Proprietary, thermo-set, acrylic, primed MDO which is applied to 2 step, Douglas Fir/Hemlock plywood.

Features and Benefits

- Economical, smooth surface for high quality enamels
- Pre-primed MDO saves priming time & labor
- Superior surface quality & life
- High strength & screwholding, light weight
- Waterproof bond = water/humidity resistance
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 5/16", 3/8", 1/2", 5/8", 3/4" & 1-1/8"
Panel Sizes: 4' X 8' & 10'

Crezon®/Two Step® MDO

Product: Premium, unfinished, paint grade, MDO plywood which provides a superior surface for finishing

Features and Benefits

- Economical, smooth surface for high quality paints
- Superior surface & life
- High strength, light weight
- Waterproof bond = water/humidity resistance
- High Face/Edge screwholding
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 5/16", 3/8", 1/2", 5/8", 3/4" & 1-1/8"
Panel Sizes: 4' X 8' & 10'

Guardian® MDO

Product: Economical, paint grade, medium density overlaid plywood provides a good surface for finishing.

Features and Benefits

- Economical, standard MDO panel
- Easily painted, Durable surface
- High strength & screwholding, light weight
- Waterproof bond = water/humidity resistance
- Very low formaldehyde; meets CARB

Specifications:

Thicknesses: 5/16", 3/8", 1/2", 5/8", 3/4" & 1-1/8"
Panel Sizes: 4' & 5' X 8' & 10'