



# DECRA GUARD® INDUSTRIAL PANEL

## Product Description:

DecraGuard® is a premium decorative, polyester overlaid plywood with exceptional surface durability for high humidity/structural applications.

## Panel Construction & Moisture Resistance:

DecraGuard® is constructed of a polyester overlay on hardwood faced plywood with Douglas Fir/Hemlock inner plys. It is produced with a 2 Step layup, has a waterproof glue bond and meets APA PS 1-07 specifications. All Olympic products are made in the USA.



## Features and Benefits:

- Ready to use, no further finishing required
- Durability similar to HP laminates: meets NEMA LD-3 durability tests
- High strength, light weight
- Waterproof bond for water/high humidity resistance
- High Face/Edge screwholding
- Very low Formaldehyde - meets proposed CARB requirements

## Working Faces/Treatment:

DecraGuard® is available with 1 or 2 working faces. Single face panels are provided with an HDO back.

Solid color finishes include White, Eggshell White and Opti-gray. High quality wood grains include Golden Natural Oak and Magnum Teak. Non standard patterns and colors meeting volume requirements are available upon request.

## Working Edges/Treatment:

- Edges are factory sawn, without edge treatment.
- For interior applications requiring edge banding, do not edge seal, otherwise, seal all edges using clear or pigmented Pre-Form by Nox-Crete or equivalent. Pre-Form can not be over coated.

## Applications:

- Marine bulkheads, chart tables, consoles & berths
- Furniture, cabinets, displays, fixtures, shelving & partitions
- Pallets, bins, totes, crates & reels
- Soffit & fascia; Garage doors
- Transportation liners/doors & boat seats
- Agricultural/Industrial wall lining

## Limitations:

DecraGuard® is not intended for hulls or decks, but it may be used in damp and humid environments. Do not exceed design limitations imposed by the shelving span tables. DecraGuard® is designed as a finished surface and should not be over coated or laminated.

## Thicknesses & Sizes:

DecraGuard® is available in 5/16", 3/8", 1/2", 5/8" & 3/4" thicknesses. Standard panel sizes are 4' X 8' only. Non standard thicknesses meeting volume requirements are available.

- Ready to use, no finishing required
- Durability similar to HP laminates
- High strength, light weight
- Waterproof bond = water/humidity resistance
- High Face/Edge screwholding

## Technical Data Applicable Standards

All panels are manufactured by Olympic Panel Products per Product Standard PS 1-07. This standard is available at [www.apawood.org](http://www.apawood.org).

Physical Properties <sup>1</sup>	3/8" to 1/2"	3/4"
Modulus of Rupture <sup>2,3</sup>	6,905 psi	7,544 psi
Modulus of Elasticity <sup>2,3</sup>	846,890 psi	879,603 psi
Lineal Expansion <sup>2,3</sup>	0.045%	0.042%
Thickness Swell	3.4%	3.4%
Water Absorption (24 Hours)	6.0%	6.0%
Internal Bond <sup>2</sup>	173 psi	206 psi
Shelf Stiffness EI ASTM D-3043 C	68,280 lb-in <sup>2</sup> /ft <sup>6</sup>	322,465 lb-in <sup>2</sup> /ft <sup>6</sup>
Shelf Bending FbS ASTM D-3043 C	1,625 lb-in/ft <sup>6</sup>	4,785 lb-in/ft <sup>6</sup>
Face Screw holding <sup>2</sup>	414 lbs	454 lbs
Edge Screw holding <sup>2</sup>	Not Applicable	422 lbs
Moisture Content <sup>2</sup> ASTM D-1037	6-9%	6-9%
Specific Gravity <sup>2</sup> ASTM D-1037	.572	.592
Density <sup>2</sup> ASTM D-1037	35.6 lbs/ft <sup>3</sup>	36.9 lbs/ft <sup>3</sup>
Flame Spread ASTM E-84	76 – 200 <sup>5</sup>	76 – 200 <sup>5</sup>
Smoke Developed ASTM E-84	25 – 270 <sup>5</sup>	25 – 270 <sup>5</sup>
Flame/Smoke spread rating E-84	Class C	
Formaldehyde level E-1333	0.01 parts/million	

Panel Tolerances <sup>2</sup>	3/8" to 3/4"
Thickness Tolerance	+/- 1/64" (.016")
Length & Width Tolerance	+0, -1/16" (.062")
Squareness	1/16" (.062")
Straightness	1/16" (.062")

<sup>1</sup>5 Panel Average. Product averages vary for individual thicknesses, consult sales or technical staff for exact properties <sup>2</sup>All tolerances and specifications apply at the time of manufacture.

<sup>2</sup>ANSI 208.1 test result

<sup>3</sup>Calculations based on test averages of along and across grain

<sup>4</sup>Shelving physical properties based on limited 5 panel average. See web site for load table

<sup>5</sup>Flame and Smoke spread properties based on engineering calculations

<sup>6</sup>Shelving stiffness/bending properties are based on a limited 5 panel average

## Finished Surface Specifications

Polyester overlays meet NEMA standards for surface durability.

Test	Description	All Colors	Cleanability
LD3-3.3	Light Resistance	SL	NA
LD3-3.4	Stain Resistance / Cleanability	NE	NA
LD3-3.4	Water	NE	0
LD3-3.4	Ethanol	NE	0
LD3-3.4	Acetone	NE	0
LD3-3.4	Ammonia	NE	0
LD3-3.4	Lemon Juice	NE	0
LD3-3.4	Vegetable Oil	NE	0
LD3-3.4	Coffee	NE	0
LD3-3.4	Tea	NE	0
LD3-3.4	Ketchup	NE	0
LD3-3.4	Mustard	NE	0
LD3-3.4	Iodine	NE	2
LD3-3.4	Ink	NE	2
LD3-3.4	Pencil	NE	2
LD3-3.4	Crayon	NE	3
LD3-3.4	Shoe Polish	NE	3
LD3-3.5	Boiling Water Resistance 212 F	NE	NA
LD3-3.6	High Temperature Resistance 350 F	NE to SL	NA
LD3-3.8	Ball Impact Resistance	NE	NA
LD3-3.10	Radiant Heat/60 seconds 550 F	NE	NA
LD3-3.13	Wear Resistance – Prints S-42 strips	125 cycles	NA
LD3-3.13	Wear Resistance – White S-42 strips	400 cycles	NA

NE = No Effect; SL = Slight Effect; M = Moderate; S = Severe Effect; P = Pass; NA = not applicable Cleanability

0 = Cleaned with water; 1 = Cleaned with commercial cleaner & sponge rubs  
2 = Required #1, baking soda, & a brush 3 = Required #2 & nail polish remover  
4 = Required #3 & bleach m; 5 = Test reagent remained after #4

## Product Grade

Standard product and special product are shipped allowing up to 10% total Good One Side (G1S) and/or Shop, identified & priced separately. Shipments of G1S and shop only may be available. Check with sales

## DecraGuard® Shelving Load Span Table

Span <sup>1</sup>	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

Span <sup>1</sup>	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	37	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
60"						23

Span <sup>2</sup>	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

Span <sup>2</sup>	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: <sup>1</sup>Spans are center-to-center of supports. <sup>2</sup> Span is out-to-out of supports. Allow for 1-1/2" supports on each end.

## Standard Packaging:

Thickness	DecraGuard® 1 Face, HDO Back Average* Weight lbs./SF	DecraGuard® 2 Face Average* Weight lbs./SF	Pieces per Unit
5/16"	.950	.950	105
3/8"	1.190	1.410	88
1/2"	1.566	1.617	66
5/8"	1.975	2.050	50
3/4"	2.225	2.300	44

Average product weights may vary +/- 10%

## 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 the sales office for a copy of the complete Olympic 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 of uniform thickness, aligned carefully. Use three spacers for panels 8' long.

## Environmental Impact

Olympic Panel produces overlaid softwood plywood from veneer peeled at the Olympic plant and from purchased veneer. All veneer and plywood panels are manufactured in accordance with the following principals:

- Logs and veneer originate in sustainable, secondary growth forests, which are managed according to Federal and State laws and regulations.
- Olympic Panel uses energy efficient, environmental control technology to reduce emissions to levels below federal and state guidelines.
- Olympic Panel uses process by-products to produce energy.
- Olympic's products are renewable, biodegradable and recyclable.

## Warnings

This product contains 0.01 parts/million of residual formaldehyde from manufacturing. This product will generate wood dust from sawing, sanding, or shaping. Material Safety Data Sheets are available on Olympic's Web site at [www.olypanel.com](http://www.olypanel.com) 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.

## Industrial Panels

- **DecraGuard®** - Polyester overlay for marine partitions, bulkheads & cabinets.
- **Cabinet Liner™** - Polyester overlay for cabinets, displays and fixtures.
- **Tuf-Tred®** - Skid-resistant, embossed, poly-glass overlay.
- **SkidGuard®** - Slip-resistant, screen embossed HDO.
- **Tempered Plyron®** - hardboard faced/veneer core, paintable, wear-resistant flooring panels.
- **Standard Plyron®** - paintable panels for furniture, cabinet, display, fixture & partitions.

Plyron® is a registered trademark of the APA, the Engineered Wood Association

## Olympic Panel Technical/Sales Information

204 East Railroad Avenue; Shelton, WA 98584  
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[www.olypanel.com](http://www.olypanel.com)

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