

# TEMPERED PLYRON: A HEAVY DUTY WORK SURFACE



## Available Thicknesses:

1/2", 5/8", 3/4", 7/8" and 1-1/8"

## Construction:

Tempered Hardboard faces laminated to a Douglas Fir plywood core.

## Face Finish:

Available in a Good-2 Side

## Available Sizes:

- 4'X8' Square Edge
- 4'X8' Tongue and Grooved

## Applications:

Stage Floors, Industrial Flooring, Mezzanines, Shelving, Partitions, Furniture, & Heavy-Duty Work Stations

## Technical Data

Eagle's Tempered Plyron panels are manufactured to meet Product Standard PS 1-22 per the American Plywood Association.

## EAGLE PLYRON - INDUSTRIAL PANEL

Tempered Plyron is a hardboard faced panel, laminated on both sides, to a plywood substrate. Eagle's Tempered Plyron is ideal for industrial applications that require a hard, durable surface. It is also resistant to impact and abrasion. The hardboard face provides a smooth, uniform surface that is excellent for painting and printing.

### Key Features:

- **Wear Resistance & High Impact:** The hardboard provides excellent durability.
- **Superior Finish:** Offers a smooth, grain-free surface that is ideal for painting and printing applications.
- **Structural Strength:** The plywood core provides stiffness, strength, and dimensional stability.
- **High Face/Edge Screwholding:** The hardwood face enhances the panel's ability to hold screws.

### 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.

### Tempered Plyron® Finishing Instructions

**General:** Do not use interior grade paints, water base vinyl-acrylic, solvent based alkyd flat, or alkyd solid color stains.

- 1. Prime Coat:** Use a high quality Acrylic Latex primer. For good performance, 2 coats of primer should yield about 2 mil dry film thickness. Follow the manufacturer's spread rate recommendation.
- 2. Top Coat:** Use 2 coats of high quality Acrylic Latex top coat from the same manufacturer as the primer to ensure compatibility. Follow the manufacturer's application instructions for best results. A total for four mills coating thickness should be applied.
- 3. Edge Coating:** For interior applications requiring edge banding, do not edge seal, otherwise, seal all edges using clear or pigmented PreForm by Nox-Crete or equivalent. Pre-Form can not be over coated. 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.

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## Warehouse Storage & 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.

## Warnings

This product contains 0.01 parts/million of residual formaldehyde from manufacturing. This product will generate wood dust from sawing, sanding, or shaping. Structural panels (PS-1) are exempt from California Air Resources Board regulations. However, this product is below CARB limits for all uses.

## EAGLE PLYRON SPAN CHARTS

### Strength Axis Across Supports, allowable pressures (PSF)

Span (in.)	1/2" - 5 Ply		5/8" - 5-Ply		3/4" - 7-Ply		1" - 7-Ply		1 1/8" - 9-Ply	
	L/360	L/270	L/360	L/270	L/360	L/270	L/360	L/270	L/360	L/270
4	165	220	325	435	1,710	1,710	3,110	3,110	3,850	3,850
8	—	—	—	—	455	605	890	1,185	1,480	1,480
12	—	—	—	—	175	235	390	520	740	915
16	—	—	—	—	—	110	200	270	400	530
19.2	—	—	—	—	—	—	130	170	260	345
24	—	—	—	—	—	—	—	—	150	200
30	—	—	—	—	—	—	—	—	—	110
32	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	—	—	—	—

### Strength Axis Parallel Supports, allowable pressures (PSF)

Span (in.)	1/2" - 5 Ply		5/8" - 5-Ply		3/4" - 7-Ply		1" - 7-Ply		1 1/8" - 9-Ply	
	L/360	L/270	L/360	L/270	L/360	L/270	L/360	L/270	L/360	L/270
4	1,465	1,465	1,985	1,985	3,095	3,095	3,875	3,875	4,695	4,695
8	405	405	705	705	1,060	1,060	1,490	1,490	1,805	1,805
12	155	180	315	315	470	470	920	920	1,120	1,120
16	—	—	140	175	265	265	570	570	715	715
19.2	—	—	100	100	150	150	315	315	395	395
24	—	—	—	—	—	—	200	200	255	255
30	—	—	—	—	—	—	—	—	100	135
32	—	—	—	—	—	—	—	—	—	110
36	—	—	—	—	—	—	—	—	—	—

**Note:** Each panel thickness features a 1/8" hardboard face and back layer that is assumed to provide no strength or stiffness and is omitted from the span calculations.

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The veneer of the face and back of the panels are tempered hardboard. If the hardboards are included in the calculations they may reduce the overall capacity of the panels. For calculation purposes, the face and back have been removed and the panels are calculated as 1/4" thinner than they will be constructed.

Actual					Analysis		
<b>1/2"</b>	<b>5 Ply</b>						
	<b>Face</b>	0.125	Hardboard	1			Hardboard
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Center</b>	0.1	DF	1	0.1	DF	2
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Back</b>	0.125	Hardboard	1 ← <i>Omitted</i>			Hardboard
	<b>Total:</b>	0.55	in		0.3	in	
<b>5/8"</b>	<b>5 Ply</b>						
	<b>Face</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Core</b>	0.125	DF	2	0.125	DF	1
	<b>Center</b>	0.15	DF	1	0.15	DF	2
	<b>Core</b>	0.125	DF	2	0.125	DF	1
	<b>Back</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Total:</b>	0.65	in		0.4	in	
<b>3/4"</b>	<b>7 Ply</b>						
	<b>Face</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Center</b>	0.125	DF	1	0.125	DF	2
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Center</b>	0.125	DF	1	0.125	DF	2
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Back</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Total:</b>	0.8	in		0.55	in	
<b>1"</b>	<b>9 Ply</b>						
	<b>Face</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Center</b>	0.125	DF	1	0.125	DF	2
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Center</b>	0.125	DF	1	0.125	DF	2
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Center</b>	0.125	DF	1	0.125	DF	2
	<b>Core</b>	0.1	DF	2	0.1	DF	1
	<b>Back</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Total:</b>	1.025	in		0.775	in	
<b>1 1/8"</b>	<b>9 Ply</b>						
	<b>Face</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Core</b>	0.125	DF	2	0.125	DF	1
	<b>Center</b>	0.15	DF	1	0.15	DF	2
	<b>Core</b>	0.125	DF	2	0.125	DF	1
	<b>Center</b>	0.15	DF	1	0.15	DF	2
	<b>Core</b>	0.125	DF	2	0.125	DF	1
	<b>Center</b>	0.15	DF	1	0.15	DF	2
	<b>Core</b>	0.125	DF	2	0.125	DF	1
	<b>Back</b>	0.125	Hardboard	1 ← <i>Omitted</i>			
	<b>Total:</b>	1.2	in		0.95	in	



Tempered Plyron manufactured by Eagle Plywood for Weekes Forest Products.