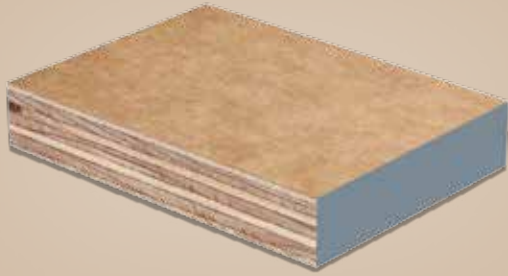


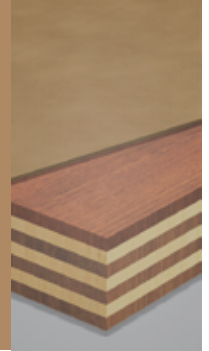


SUPER-MATTE™ MDO

Concrete Form



- Enhanced alkalinity resistance vs. regular MDOs
- Matte finish = good coated concrete base
- Smooth matte finish due to hardwoods
- Limited grain and patch transfer
- Factory applied Nox-Crete FormCoat
- Balanced substrate design promotes stability
- Increased # of pours & reduced cost/pour



Product Description:

Super-Matte™ MDO is a premium, medium-density overlaid plywood concrete form for matte finishes with a factory applied release coating. It provides enhanced alkalinity resistance and limited grain transfer vs. regular MDOs.

Panel Construction/Moisture Resistance:

Super-Matte™ MDO is an overlay on hardwood faced plywood with Doug Fir/Hem construction. It is manufactured with a one-step layup, has a waterproof glue bond and is manufactured to APA PS 1-09. All Olympic products are made in the USA.

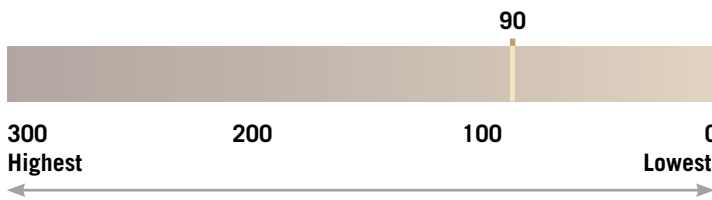
Working Faces/Treatment:

- Super-Matte™ MDO is available with one (standard) or two (optional) working faces. Standard panels with a single working face.
- Gloss level of concrete surface: matte
- Wood Grain transfer to concrete surface: limited
- Sugaring: none
- Maintenance: very little

Working Edges/Treatment:

- Factory sawn and sealed with special yellow, styrene acrylic sealer.
- Seal all exposed wood (edges and holes) with Edge Flex 235 by Nox-Crete, Olympic Form Seal by Willamette Valley Co. or equivalent to prevent concrete staining from the wood sugars.

Alkalinity Resistance After Chemical Exposure



The Abrasion and Chemical Resistance Test reflects the expected panel life in the field. The higher the index number, the more resistant to alkalinity/abrasion.

Structural/load Performance Summary

Super-Matte™ MDO is available with custom load tables (V287). Allowable pressure $l/270 \times 3/4"$ @ 12" OC (face gain across supports): 817 PSF

Typical Pour Ranges:

- Engineered systems: not recommended
- Gang forms: up to 30 pours
- Job built: up to 20 pours
- Pour ranges are not guaranteed because the number of pours will vary due to jobsite handling and panel maintenance, vertical or horizontal use, form release agent, concrete mix design/strength, alkalinity, pour rate and other factors

Release Coating:

- Release agent: Nox-Crete FormCoat factory applied
- Coating required: light before first and each subsequent pour
- Recommended release agent: Non-Crete Form Coat or equivalent. Avoid release agents containing fuel oils, recycled oils or solvents

Limitations:

Do not exceed design limitations imposed by the load span table. Conform to concrete form design procedures based on American Concrete Institute (ACI) standard 347-04. Release agents are required. Do not employ used concrete form for structural applications. Do not coat or laminate this panel without surface preparation. For coating or laminating information, ask Olympic for technical assistance.

Thicknesses & Sizes:

Olympic Super-Matte™ MDO is available in 11/16" & 3/4" and 21mm. Standard panel sizes are 4' X 8' (1220 X 2440mm). Non-standard thicknesses and widths meeting volume requirements are available.

Technical Data Applicable Standards

All panels are manufactured by Olympic Panel per product standard PS1-09. This standard is available at www.apawood.org.

Panel Tolerances	11/16" (17.5mm) & 3/4" (19.0mm)	21.0mm
Thickness Tolerance	+/- 1/32" (.031") +/- 0.79mm	+/- 5% +/- 0.041" (1.1mm)
Length & Width Tolerance	+0, -1/16" (.062") +0, 1.6mm	+0, -1/16" (.062") +0, -1.6mm
Squareness	1/16" (.062") 1.6mm	1/16" (.062") 1.6mm
Straightness	1/16" (.062") 1.6mm	1/16" (.062") 1.6mm
Formaldehyde level ASTM E-1333*	0.03 parts/million	0.03 parts/million

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.

Standard Packaging:

Thickness	Super-Matte™ MDO 1 Side (lbs./SF)	Super-Matte™ MDO 2 Sides (lbs./SF)	Pieces per Unit
11/16" – 17.5mm	2.036	2.061	48
3/4" – 19.0mm	2.175	2.200	44
21.0mm	2.365	2.390	40

Thickness	Super-Matte™ MDO 1 Side (Kg/M²)	Super-Matte™ MDO 2 Sides (Kg/M²)	Pieces per Unit
11/16" – 17.5mm	9.94	10.06	48
3/4" – 19.0mm	10.62	10.74	44
21.0mm	11.50	11.67	40

*Average product weights may vary +/- 10%

Product Grade

Standard product is shipped on grade only. Special product is shipped allowing up to 10% total Good One Side (G1S) and/or Shop, identified & priced separately. Shipments of G1S and shop may be available.

Stress and Load Span Tables

These stress and load span tables simulate actual wet form conditions. Dry load span values are overstated and should not be used. Canadian (COF) design values for Douglas Fir are 25% higher than APA.

Stress Tables: Tables 1 & 2 herein are based on standard APA and commercial standards PS-1 criteria.

Stress Table—Dry Working Stress Wet Design Capacities—4' X 8' & 10'				
Custom Design V287				Wet Adjust Factor
Nominal Thickness	11/16"	3/4"	21.0mm	
Number of Plies	7	7	9	
Table 1: Face Grain Perpendicular to Supports¹				
Bending Stiffness ¹	315,982.7	391,713	508,221	.85
Bending Resistance ²	1,006.7	1,033.5	1558.5	.75
Planar Shear ³	423.9	351.7	535	.75
Table 2: Face Grain Parallel to Supports¹				
Bending Stiffness ¹	189,543.0	240,823	355,652	.85
Bending Resistance ²	800.3	761.0	1,202.0	.75
Planar Shear ³	286.7	313.3	314.9	.75

¹Bending Stiffness = E I* (lb-in²/ft); ²Bending Resistance = M or F_sS (lb-in/ft); ³Planar Shear Capacity: V or F_vIb/Q (lb/ft). There is no DOL (Duration of Load) or experience factor applied to E I, F_sS and F_vIb/Q.

Load Span Tables: Tables 3 through 6 are based on standard APA and PS-1 criteria.

LOAD SPAN TABLES – WET CONDITIONS						
Recommended Maximum PSF on V287 Panels One Step Only						
Table 3: Face Grain Perpendicular to Supports ¹						
Support Spacing	Plywood Thickness – Allowable Pressure (PSF)					
	11/16" – 17.5mm 1 Step		3/4" – 19.0mm 1 Step		21.0mm 2 Step	
(in.)	ℓ/360	ℓ/270	ℓ/360	ℓ/270	ℓ/360	ℓ/270
8"	1244	1244	1320	1320	1985	1985
12"	753	770	817	817	1053	1229
16"	350	467	413	550	514	686
19.2"	210	280	251	334	317	422
24"	110	147	133	178	170	227
Table 4: Face Grain Parallel to Supports¹						
Support Spacing	Plywood Thickness – Allowable Pressure (PSF)					
	11/16" – 17.5mm 1 Step		3/4" – 19.0mm 1 Step		21.0mm 2 Step	
(in.)	ℓ/360	ℓ/270	ℓ/360	ℓ/270	ℓ/360	ℓ/270
8"	1126	1126	1175	1175	1296	1296
12"	570	697	690	727	802	802
16"	244	325	301	401	513	581
19.2"	174	231	215	242	368	422
24"	89	118	111	148	192	256

Notes: ¹Plywood continuous across two or more spans. These are total loads (weight of panel should be considered in horizontal applications) DOL (Duration of Load) 1.25 and experience factor of 1.30 used in load tables.

Form Panel Thickness: For more detailed design information, refer to APA publication "Plywood For Concrete Forming" and to American Concrete Institute publication "Formwork for Concrete."

Edge Support: In high moisture/sustained load conditions, edges may have a greater deflection than the panel center and may exceed calculated deflection.

Warehouse Storage and Handling

- Store in a dry, clean, well-ventilated area indoors
- Avoid temperature 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, four or five spacers for longer panels

Suitability for Use and Warranty

Olympic Panel & Veneer, LLC and Olympic Panel are registered trademarks of Olympic Panel Products LLC. Specifications subject to change without notice. Effective: 08/2014; Replaces: 10/2008

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.

Jobsite Care and Handling

1. **Product preparation:** OPV's HDO panels are not factory release coated. Lightly coat panels prior to first use and each subsequent use with Nox-Crete PCE/PCS or equivalent agent.
2. **Pouring and Vibrating:** Follow the rate of pour to reduce excessive pressure that can cause panel damage. Use rubber tipped vibrators and exercise care not to damage form faces.
3. **Stripping:** Prolong panel life with proper stripping and handling. Use wood wedges, rather than metal bars or pries, to separate the form from the concrete. Form panels must be lowered, not thrown or dropped, to avoid face and edge damage.
4. **Cleaning:** Storage and edge sealing—Clean panels after each use, employing burlap or flat, non-scratching tools such as plastic or wood scrapers. Reseal cut edges or exposed wood at holes or openings with two coats of a styrene acrylic sealer. Stack panels flat and remove fasteners to prevent damage and warping. Store panels in a protected area and avoid direct sunlight.
5. **Surface Repairs:** Remove form release agent, concrete & loose wood/overlay debris. Sand the damaged surface with coarse (80 grit) disc or paper. For architectural concrete, use fine (120 grit) for the damaged perimeter area. Clean all sanding debris from the repair area. Apply: W.R. Meadows - Rezi-Weld Gel Paste State, Euclid - Euco #620 Gel Epoxy System, or Sika - Sikadur AnchorFix. Use the Rezi-Weld Gel Paste State when the air temp is above 60° F, or the Euco #620 Gel or Sikadur AnchorFix-4 when the air temp is above 33° F. Scrape off the excess repair material using a putty knife. Allow repair material to cure for 24 hours (48 hours in cold weather) before sanding, then feather sand the area.

Environmental Impact

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

- 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 0.03 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 website at 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 applications.

There's more than one reason Olympic Panel is #1 in the concrete forming industry. Find out more at www.olypanel.com



204 East Railroad Avenue
Shelton, WA 98584
Sales phone: 800-445-2442
Sales Fax: 360-432-5081
www.olypanel.com