



MDO Concrete Form Plywood



- Balanced Douglas Fir Construction
- Nox-Crete Form Coating
- Edge Sealed
- Lengths: 8' & 10'
- Thicknesses: $\frac{5}{8}$ " - $1\frac{1}{8}$ "

Rosboro MDO Concrete Form Plywood

Rosboro's MDO concrete form plywood is manufactured with a Struc I, BCX, Class I plywood substrate with several overlay options available to suit a particular end use. Balanced Douglas fir construction makes the panel strong and very stable. Rosboro factory applies Nox-Crete Form Coating to the panel face so the form separates easily from concrete. The panels are edge sealed to prevent moisture penetration of highly alkaline concrete bleed water into the edges of the plywood forms.

Rosboro's MDO concrete form plywood can be supplied in a variety of lengths, lay-ups and thicknesses.

For added convenience, our customers can bundle Rosboro plywood products with other Rosboro building materials, such as studs and glulam.

Rosboro's panel products are APA/EWS certified and conform to PS1-07.

Rosboro Concrete Form Application Matrix

Panel Characteristics	Standard	High-Mask	High Resin
Concrete Pour Appearance	Best	Better	Good
Durability	Good	Good	Best
Grain and Panel Feature Masking	Good	Best	Panel Features Show Through
Resin Content	35%	35%	37% to 38%
Available Sizes	4x8, 4x10	4x8, 4x10	4x8, 4x10

Standard (389C)

Rosboro's 389C MDO is our most economical panel that holds up to multiple uses. The actual number of pours depends on application, service conditions, form maintenance and handling. Rosboro 389C is a durable alternative to BB concrete form with MDO performance. The panel has a brown kraft face that yields a quality matte concrete finish with moderate to heavy wood grain transfer.

High Mask (454C)

Rosboro's 454C MDO has high masking properties with a mottled surface that yields a concrete finish with moderate wood grain transfer. The 454C MDO is formulated to resist the action of alkaline concrete fluids and ensure a long form life.

High Resin (417C)

Rosboro's 417C MDO has a high resin content resulting in a hard abrasion resistant surface. This high resin, alkaline-resistant MDO gives the panel more pours than standard MDO concrete form. Rosboro 417C has a translucent olive green face and the panel yields a smooth matte concrete finish with heavy wood grain transfer.

Sizes:

4' x 8' and 4' x 10'
2' x 8' and 2' x 10'

Thicknesses:

1/2" to 1 1/8"

Grades:

- Structural I – Manufactured with Group 1 species throughout. It will support the highest loads both along and across the panel. This panel is recommended when face grain is parallel to supports.
- Class I – Requires Group 1 faces for high strength and stiffness.

Pieces Per Unit:

1/2"	66 pcs.
5/8"	55 pcs.
11/16"	48 pcs.
23/32"	44 pcs.
3/4"	44 pcs.
7/8"	38 pcs.
1"	33 pcs.
1 1/8"	30 pcs.

Certification: 

International Approval:   

Shipping: Truck, Van Container and Rail (UP and BNSF)

Face Grain Perpendicular to Supports

Support Spacing		4	8	12	16	20	24	30	32
19/32"	L/360	4,600	1,670	735	330	195	100	50	—
	L/270	4,600	1,670	745	420	260	135	70	55
5/8"	L/360	4,910	1,825	810	370	220	115	60	50
	L/270	4,910	1,825	810	455	295	150	80	65
11/16"	L/360	4,780	1,840	890	425	255	135	70	55
	L/270	4,780	1,840	890	500	340	180	95	75
23/32"	L/360	5,035	1,935	1,010	510	310	165	85	70
	L/270	5,035	1,935	1,010	570	395	220	115	95
3/4"	L/360	5,285	2,030	990	495	300	160	85	70
	L/270	5,285	2,030	990	555	385	215	110	90
7/8"	L/360	6,065	2,335	1,435	745	465	255	135	110
	L/270	6,065	2,335	1,435	805	560	340	180	150
1"	L/360	7,125	2,740	1,655	900	575	320	175	145
	L/270	7,125	2,740	1,655	930	645	415	230	195
1 1/8"	L/360	7,905	3,040	1,880	1,245	815	465	255	215
	L/270	7,905	3,040	1,880	1,275	885	565	340	285

Notes:

1. Deflection limited to L/360th and L/270th of the span.
2. Plywood continuous across two or more spans.
3. ACI recommends a minimum lateral design pressure of 600 C_w but it need not exceed p=wh.

Face Grain Parallel to Supports

Support Spacing		4	8	12	16	20	24	30	32
19/32"	L/360	2,410	780	240	100	70	—	—	—
	L/270	2,410	835	315	130	95	—	—	—
5/8"	L/360	2,650	935	290	120	85	—	—	—
	L/270	2,650	965	385	160	115	60	—	—
11/16"	L/360	3,060	1,175	460	195	140	70	—	—
	L/270	3,060	1,175	605	260	185	95	—	—
23/32"	L/360	3,025	1,165	445	190	135	70	—	—
	L/270	3,025	1,165	580	255	180	95	—	—
3/4"	L/360	3,330	1,280	530	230	165	85	—	—
	L/270	3,330	1,280	680	305	215	115	—	—
7/8"	L/360	4,925	1,895	875	395	285	150	—	—
	L/270	4,925	1,895	975	530	305	195	—	—
1"	L/360	5,385	2,070	1,280	675	450	260	60	50
	L/270	5,385	2,070	1,280	810	450	290	80	70
1 1/8"	L/360	5,900	2,270	1,405	755	500	300	75	60
	L/270	5,900	2,270	1,405	895	500	320	100	80

Notes:

1. Deflection limited to L/360th and L/270th of the span.
2. Plywood continuous across two or more spans.
3. ACI recommends a minimum lateral design pressure of 600 C_w but it need not exceed p=wh.

Care and Handling to Extend Panel Life

Pouring and Vibrating

Maintain a rate of pour and slump factor consistent with the design value of the form and bracing system used to avoid a blow-out. Direct the flow of concrete away from the face of the forming panel to avoid stripping away the panel coating or release agent. Always use a vibrator equipped with a rubber cover to prevent vibrator burns on the panels and do not let the vibrator come in direct contact with the form panels.

Form Stripping

Metal bars or pry bars should not be used on plywood because they will damage the panel surface and edge. Use wood wedges, tapping gradually when necessary. Remove nails, fasteners or other objects that can scar the panel.

Form Maintenance

Concrete form performance depends on proper use and care of the panels. Soon after removal, forms should be inspected for wear, cleaned, repaired, spot primed, refinished and lightly treated with a form-release agent before reusing. Cut or exposed edges should be resealed to prevent moisture absorption and panel swelling. Always use a sharp carbide saw blade to cut panels. Once panels are cut always reseal the edges.

Nox-Crete Form Coating

Rosboro factory applies Nox-Crete Form Coating to the panel face so the form separates easily from concrete. Nox-Crete Form Coating chemically reacts upon contact with fresh concrete, positively preventing bonding with the form surface. By-products of this reaction will waterproof wood forms, extending their usable life. Panels are edge sealed to prevent moisture penetration of highly alkaline concrete bleed water into the edges of the plywood forms.

Do not use form-release agents that contain diesel fuel, mineral spirits, or motor oil as these may soften and eventually degrade both the overlay and the panel itself.

Handling and Storage

Care should be exercised to prevent panel chipping, denting, and corner damage during handling. Panels should never be dropped. The forms should be carefully piled flat, face to face and back to back. Forms should be cleaned immediately after stripping and can be solid-stacked in small packages with faces together. During storage, the panels should be kept out of the sun and rain and covered loosely to allow air circulation without heat build-up. Keep panels off the ground and out of the mud and water.

Admixtures Affect Form Life

Admixtures are liquids, solids, powders or chemicals added to a concrete mix to change the properties of a basic mix of cement. They can speed or retard setting times, increase workability, increase air content, increase water permeability, increase strength, etc. Admixtures include pozzolans such as silica fume, blast furnace slag and fly ash. Many of these additives increase abrasiveness and /or alkalinity of the concrete. The use of admixtures may significantly decrease the “normal life” of a concrete-forming panel.



Rosboro began operations in Oregon’s Willamette Valley in 1939 and has grown into one of the largest privately owned, fully integrated forest products companies in the United States. Rosboro has been manufacturing plywood since 1963 in addition to glulam and a wide range of lumber and stud products. Rosboro’s timberland base has grown into one of the largest private timberland holdings in the Pacific Northwest. The company owns and manages timberland strategically located in the highly productive forests of the Pacific Northwest. Rosboro lands are managed to sustain the company into the future by maintaining high environmental standards.

All of the divisions at Rosboro share the same commitment to customer service. Large enough to meet customers’ needs in a changing marketplace, yet small enough to offer the best, personalized customer service in the industry.

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