

About Westlam



Westlam Industries Limited manufactures Westlam Crown 44 and Westlam Crown HDO concrete forming panels in addition to a full line of other specialty plywood products. The company also offers custom cutting services.



Located in Langley, British Columbia, Canada, Westlam employs approximately 75 people including a dedicated sales and customer service staff who represent the company's products to customers worldwide.

Care and Handling - Crown HDO and Crown 44 are quality plywood panels that have been designed to provide smooth concrete finishes and the maximum number of re-uses possible. In order to achieve the full potential for these products, the following Care & Handling procedures are required:

Storage - Crown HDO and Crown 44 should be stored flat on a dry, level platform, under shelter or otherwise protected. Steel straps should be cut and the forming surface of the top panel covered. Avoid prolonged exposure of the panel surface to direct sunlight to minimize surface degradation.

Form Fabrication - Crown HDO and Crown 44 can be readily worked with good quality hand or power tools (carbide tipped saw blades are recommended). Panels should be fixed to forming members with screws. If concrete appearance is a factor, screws should be countersunk and filled. Panel joint leakage or detail can be reduced by filling joints with a suitable sealant between panel edges. While panels are edge sealed at the factory, any field cuts or holes that expose wood should be resealed with 2 coats of high quality polyurethane varnish to reduce moisture absorption.

Release Treating - With Crown HDO and Crown 44, proper treatment with a chemically active petroleum based release agent formulated for concrete formwork will simplify stripping and cleaning while improving concrete appearance and form life. Always follow the manufacturer's recommendations for application. We recommend NoxCrete form release. If treated properly, Crown HDO and Crown 44 should present no difficulty in stripping from concrete. If force is required, use wood wedges to avoid perimeter damage. For cleaning, use non-scratching tools, such as stiff brushes and plastic or wooden scrapers.

Concrete Placement - Crown HDO and Crown 44 are highly resistant to abrasion and impact. However, as with any surface, it can be damaged through improper use. The rate of pour and slump factor of the concrete must be limited to that assumed in the design of the form. To minimize form damage, rubber tipped vibrators are recommended and should be used for consolidation only. Vibrators should never be used for moving concrete horizontally in the forms.

Westlam Industries Ltd.

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Distributed by:



CROWN 44 CROWN HDO

Quality Form Plywood
Chosen by
Contractors Worldwide





Seattle Mariners Stadium

Crown HDO

Concrete Form Plywood

Crown HDO is a Douglas Fir plywood panel surfaced with high density phenolic resin impregnated overlays, designed for architectural concrete and high re-use capability. Available overlaid one or two sides.

- ◆ **Panel Construction** - An overlaid plywood panel, Crown HDO is certified by Pittsburgh Testing Laboratory as conforming to US Product Standard PS 1-95 Structural 1 and CSA 0121 M1978.
- ◆ **Configurations** - 100/30;100/100;120/30; 120/120.
- ◆ **Release Treatment** - Crown HDO is not factory release treated, therefore panels should be lightly coated with a suitable release agent prior to the first and each subsequent use.
- ◆ **Edge Seal** - Panels are factory sealed with a silver, highly aluminized, resin rich alkyd coating to provide moisture resistance.
- ◆ **Standard Panels** - Thickness: 1/2" - 5 ply; 5/8" - 5 ply and 7 ply; 3/4" - 7 ply; 1 1/8" - 11 ply
- ◆ **Size** - 4'x 8', packaged in units of: 1/2" - 66; 5/8" - 53; 3/4" - 44; 1 1/8" - 30.

Cover Photo: Seattle Mariners Stadium and Crown HDO and Crown 44.



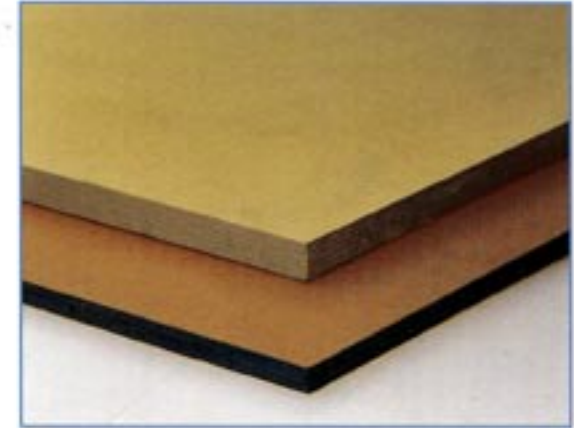
Roosevelt Dam, Arizona

Crown 44

Concrete Form Plywood

Crown 44 is a Douglas Fir plywood panel overlaid on one or two sides with a medium density phenolic resin impregnated fibre sheet. Crown 44 is a high quality, cost effective, multiple re-use panel which produces uniform matte finished concrete.

- ◆ **Panel Construction** - An overlaid plywood panel, Crown 44 is certified by Pittsburgh Testing Laboratory as conforming to US Product Standard PS 1-95 Structural 1 and CSA 0121 M1978.
- ◆ **Release Treatment** - Panels are factory coated on both sides with Nox-Crete Form Coating, a high quality petroleum-based chemically active release agent. Panels should be lightly coated with a suitable release agent prior to the first and each subsequent use.
- ◆ **Edge Seal** - Panels are factory sealed with a dark blue, aluminized, resin rich alkyd coating to provide moisture resistance.
- ◆ **Standard Panels** - Thickness: 1/2" - 5 ply; 5/8" - 5 ply and 7 ply; 11/16" (17.5 mm) - 7 ply ; 23/32" - 7 ply; 3/4" - 7 ply; 1 1/8" - 11 ply.
- ◆ **Size** - 4'x 8', packaged in units of: 1/2" - 66; 5/8" - 53; 11/16" - 45; 23/32" - 44; 3/4" - 44, 1 1/8" - 30.



Crown HDO (Top) and Crown 44

Center to Center Span (mm)	Allowable Pressure (kN/m ²) for the Indicated Plywood Thickness			
	17.5mm (7 ply)		19.0mm (7 ply)	
	L/270	L/360	L/270	L/360
100	216	216	227	227
150	119	119	126	126
200	83	83	87	87
400	32	24	39	29
600	11	8.2	13	10
800	4.7	3.7	6.1	4.5

Face Grain Perpendicular to Supports (38mm width).

Center to Center Span (in)	Allowable Pressure PSF for the Indicated Plywood Thickness							
	5/8" (5 ply)		11/16" (7 ply)		23/32" (7 ply)		3/4" (7 ply)	
	L/270	L/360	L/270	L/360	L/270	L/360	L/270	L/360
4	4536	4536	4536	4536	4652	4652	4767	4767
8	1743	1743	1743	1743	1800	1800	1827	1827
12	908	840	1071	1029	1103	1081	1134	1114
16	525	399	672	504	746	557	819	608
24	168	126	231	172	252	191	273	210
30	85	55	126	78	137	87	147	95

Face Grain Perpendicular to Supports (1 1/2" wide).

METRIC

IMPERIAL