

Crown Alka-Max

Crown Alka-Max is a Struc 1 panel that meets or exceeds PS 1-09 standards. Crown Alka-Max is a melamine resin barrier film overlay, which is ideal for applications that require higher panel reusability.

Features and Benefits:

- Douglas Fir construction for maximum strength
- Two piece inner plies for a solid panel
- Panel edges are putty filled for better moisture resistance
- Available in one sided and two sided layups
- Certified by APA – The Engineered Wood Association
- Crown Alka-Max is also available with dense hardwood faces, which is independently certified by APA as a Customer Certified Product. Applicable load tables are available upon request

Construction Standards:

Crown Alka-Max is constructed with high strength Fir veneer. The high resin content melamine overlay is applied in a one step process. All adhesives used are fully waterproof phenolic resins that meet APA glue bond standards. Available in sizes: 24" x 96", 48" x 96".

- **Release Treatment** – Panels are not factory treated with release oil. Panels must be be lightly coated with a suitable release agent (Nox-Crete or equivalent) before use and with each subsequent use.
- **Edge Seal** – Panels are factory sealed with a silver, aluminized, resin rich alkyd coating to provide moisture resistance.

Panel Strength Perpendicular Supports Allowable Pressure (LBS PSF) for the Indicated Deflection Limits						
Center to Center Span (In)	5/8" Crown Alka-Max Struc 1		3/4" Crown Alka-Max Struc 1		1.1/8" Crown Alka-Max Struc 1	
	L/270	L/360	L/270	L/360	L/270	L/360
4	4830	4830	4115	4115	7910	7910
8	1770	1770	1580	1580	3040	3040
12	785	785	980	980	1885	1885
16	445	360	710	695	1215	1185
19.2	285	215	550	425	840	765
24	145	110	300	225	540	435
30	75	55	155	115	320	240

IMPERIAL

Panel Strength Parallel to Supports Allowable Pressure (LBS PSF) for the Indicated Plywood Thickness						
Center to Center Span (In)	5/8" Crown Alka-Max Struc 1		3/4" Crown Alka-Max Struc 1		1.1/8" Crown Alka-Max Struc 1	
	L/270	L/360	L/270	L/360	L/270	L/360
4	2610	2610	4330	4330	6020	6020
8	935	920	1525	1525	2315	2315
12	375	280	675	675	1425	1435
16	155	120	380	335	935	820
19.2	110	85	210	210	520	520
24	55	40	135	125	330	325
30	10	10	35	25	105	80

IMPERIAL

Note: Applicable for plywood across two or more spans



CARE AND HANDLING



Care and Handling

Crown Performance Panels are quality plywood panels designed to provide the maximum number of re-uses as possible. In order to achieve the full potential for these products, the following minimum care and handling procedures are required:

Crown Performance Panels must be stored flat, on a dry, well drained, level surface, under shelter and otherwise protected. Steel straps should be cut and the forming surface of the top panel covered. Avoid exposure of the panel surface to direct sunlight and rain, to minimize degradation. Ensure panels are properly cleaned prior to stacking or storage.

Crown Performance Panels can be readily worked, with good quality hand or power tools (carbide tipped saw blades are recommended); to minimize chipping, panels need to be cut and drilled from the face of the panel. 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 details can be reduced by filling joints with a suitable sealant between panel edges (please consult your sealant supplier for the proper product for your application). While panels are edge sealed at the factory, any field cuts or holes that expose wood need to be resealed with a minimum of two coats of high quality polyurethane varnish to reduce moisture absorption.

Crown Performance Panels are factory coated with Nox-Crete water based chemically active release agent. The use of Nox-Crete release agents are recommended, and with high alkaline mixes, your release agent supplier can suggest a proper range of release agents for improved form life span. Before first use, and after each pour, an equivalent chemically active release agent must be applied. Do not use any form release agents that contain diesel fuel, solvents or engine oil. These will degrade the overlay surface and will affect performance.

Crown Performance Panels are 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.

With proper release treatment, stripping forms is easy. Do not force panels with metal pry bars, or allow panels to be dropped and mis-handled. The use of wooden wedges is recommended to loosen panels. Clean panels right after stripping prior to the hardening of residue. Use non-scratching tools such as stiff non-metallic brushes and plastic or wood scrapers. Once cleaned, remove all fasteners, re-oil panels, and stack face to face to prevent rapid drying of the wood and overlay surface.

Damaged panels need to always be appropriately repaired prior to re-use. For further instructions please see APA's Concrete Forming Design / Construction Guide www.apawood.org.

Westlam Industries

Crown Performance Panels

www.westlam.com



Located in Vancouver, British Columbia, Westlam Industries employs approximately 100 people including dedicated sales and customer service staff who represent the company's products worldwide.

Westlam Industries manufactures concrete form panels, sold under the brands Crown 43, Crown 44, Crown HDO, Crown Alka-Max, as well as other value added panels.

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CONCRETE PERFORMANCE