

Crown 43

17.5mm Crown 43 is a Douglas Fir panel that meets or exceeds CSA O121 for MDO Concrete Form. Crown 43 has had proven success for over 15 years and produces uniform matte finish concrete using our proprietary high resin MDO paper. Hi Flow overlay paper is available upon request.

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
- Nox-Crete chemically active release agent is applied for optimum performance
- Uniform matte finish
- Certified by APA – The Engineered Wood Association

Construction Standards:

Crown 43 is constructed with high strength Douglas Fir veneer. The high resin content MDO overlay is applied in a one step process. All adhesives used are fully waterproof phenolic resins that meet exterior CSA gluebond standards. Available sizes: 1220 x 2440, 610 x 2440.

- **Release Treatment** – Panels are factory coated on both sides with Nox-Crete Form Coating, a high quality water-based chemically active release agent. Panels must be lightly coated with a suitable release agent prior to the first and after each subsequent use.
- **Edge Seal** – Panels are factory sealed with a light blue, aluminized, resin rich alkyd coating to provide moisture resistance.

Panel Strength Across Supports Allowable Pressure (kN/m²) for the Indicated Plywood Thickness

Center to Center Span (mm)	L/270	L/360
100	272	272
200	103	103
300	46	46
400	26	23
500	16	12
600	9.3	7.2
800	4.1	3.1

METRIC

Panel Strength Parallel to Supports Allowable Pressure (kN/m²) for the Indicated Plywood Thickness

Center to Center Span (mm)	L/270	L/360
100	153	153
200	58	58
300	29	23
400	13	10
500	8.1	6.0
600	4.8	3.6
800	1	0.7

METRIC

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, as well as other value added panel products.

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CONCRETE PERFORMANCE