



WESTLAM CROWN

17.5 mm // HDO // 1-2 Side // Hardwood

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The Crown HDO Hardwood brand has had proven success for decades and is ideal for applications that require a smoother surface and higher panel reusability than traditional Douglas fir concrete form HDO.

Features & Benefits

Crown HDO Hardwood is constructed with high strength hardwood face and back veneer and Douglas fir inner plies. The high resin content HDO is applied in a one-step process. All adhesives used are fully waterproof phenolic resins that meet APA exterior glue bond standards.

Available in 1220 mm x 2440 mm and 610 mm x 2440 mm in 17.5 mm thickness.

✓ APA Structurally Certified

All of our Hardwood products are structurally certified by the APA and undergo rigorous inspection and testing by our Quality Control team.

✓ Crown HDO Weights

Crown HDO can be specified as either one or two sided panels with 100 or 120 weight pouring faces, and 30, 100 or 120 weight backs to meet your job site requirements.

✓ Hardwood Face and Back

A durable hardwood veneer is used for the face and back providing a smoother pouring surface and a more durable panel than our softwood options.

✓ Two Piece Inner Plies

Our two piece, Douglas fir inner ply construction method is engineered to provide a more solid panel that can better stand up to job site wear and tear.

✓ Multi-Layer Edge Protection

For additional protection against moisture, all Crown HDO panels are edge puttied and then thoroughly coated with a silver, aluminized, resin-rich alkyd edge seal.

✓ Factory Applied Release Agent

For safety reasons, HDO panels do not come factory coated with release agent. Prior to each use, Crown HDO requires application of Nox-Crete or equivalent release agent.

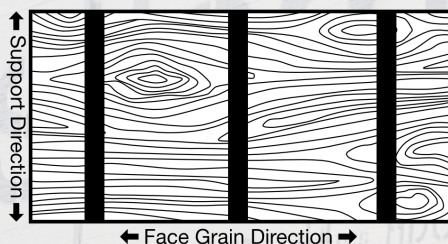
See Care and Handling for more information

Load-Span Tables - Wet Conditions

Allowable pressure (kN/m²) for the indicated deflection limits - 17.5 mm thickness

| Support Span Center to Center | L/270 kN/m ² | L/360 kN/m ² |
|----------------------------------|----------------------------|----------------------------|
| 203 mm | 98 | 98 |
| 305 mm | 60 | 45 |
| 406 mm | 28 | 21 |
| 488 mm | 17 | 13 |
| 610 mm | 8.9 | 6.7 |

8' Perpendicular to supports



| Support Span Center to Center | L/270 kN/m ² | L/360 kN/m ² |
|----------------------------------|----------------------------|----------------------------|
| 203 mm | 73 | 73 |
| 305 mm | 45 | 39 |
| 406 mm | 22 | 17 |
| 488 mm | 14 | 12 |
| 610 mm | 8.1 | 6 |

8' Parallel to supports



Note: Applicable for plywood across two or more spans, and on supports at least 1.5" wide
Load Tables developed by APA: The Engineered Wood Association



Westlam Industries

Get the most out of your plywood by following these simple guidelines

Care and Handling - Minimum Requirements

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:

Storage

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

Fabrication

Crown Performance Panels 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 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 edged sealed at the factory, any field cuts or holes that exposed wood need to be resealed with a minimum of two coats of high quality polyurethane varnish to reduce moisture absorption. Damaged panels must always be appropriately repaired prior to re-use.

Release Treating

Crown 43, Crown 44 and Crown 48 are factory coated with Nox-Crete water based chemically active release agent. For safety and transportation reasons, Crown HDO and Crown Alkamax are not factory coated with Nox-Crete release agent. The use of Nox-Crete or equivalent release agents is highly recommended and with high alkaline concrete mixes, your release agent supplier can suggest a proper range of release agents for improved panel life span. Before first use, and after each pour, Nox-Crete or an equivalent chemically active release agent must be applied to all Crown concrete form panels. Do not use any form release agents that contain diesel fuel, solvents or engine oil. These will degrade the overlay surface and will negatively affect performance. Special caution must be taken with Melamine HDO panels such as our Crown Alkamax series, as they become slippery when wet.

Concrete Placement

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. Avoid aiming the concrete directly at formwork panels when pumping. This can cause abrasion and damage to the overlay surface.

Stripping

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 nails and screws, re-oil panels, and stack face to face to prevent rapid drying of the wood and overlay surface.

For further instructions please see APA's Concrete Forming Design / Construction Guide at: www.apawood.org



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