



ULTRAFORM[®]

1-STEP Concrete Forming Panels



Ironworkers Memorial Bridge
Vancouver, BC

The Ultimate Medium Density Forming Panel



Available only from Richmond Plywood Corporation Limited (Richply), ULTRAFORM is the ultimate medium density overlaid forming plywood for concrete formwork.

BENEFITS

1. Easy to use and maintain, ULTRAFORM provides a smooth matte-finish concrete. Surfaces are treated with Nox-Crete[®] release agent that protects the surface while reducing form damage and easing striking effort.
2. ULTRAFORM's strength and stiffness, impact resistance, tough overlaid surface, quality edge seal, and EXTERIOR glue bond allow for multiple re-uses.
3. ULTRAFORM's low water transmission rate from a constant water/cement ratio results in a harder, denser concrete surface.

PRODUCT SPECIFICATION

As a member of the APA - Engineered Wood Association, Richply can assure that all plywood manufactured in its plant is subjected to APA's stringent quality control procedures. ULTRAFORM meets or exceeds the COFIFORM SP PLUS standard and it is the only product bearing the COFIFORM SP PLUS mark. ULTRAFORM is manufactured under APA's accredited ISO Guide 65 quality assurance program.

ULTRAFORM is manufactured according to the specifications of CSA O121 and its EXTERIOR grade glue line is WBP rated.

RELEASE AGENT

Each panel is treated with Nox-Crete release agent. This inhibits moisture penetration into the panel as well as acts to improve the release of the panel from the concrete. Nox-Crete helps to eliminate concrete build-up and dusting and aids in ease of stripping.

CONSTRUCTION, DIMENSIONS AND PACKAGING

Every ULTRAFORM panel is made with 100% Douglas fir veneers (face, back and core) with 7-ply construction for superior strength and stiffness.

- Cross-laminated veneers make the panels tough, durable, and split-proof from nailing.
- Phenolic resin overlays on one or both sides maximize re-use potential.
- Factory edges are painted with water and alkali resistant edge sealant in your choice of finishes:
 - Blue: Opaque
 - Burgundy: High Flow
- Sizes: 4 x 8 foot (1220 x 2440 mm) standard dimension
- Thicknesses: 17.5 mm and 19 mm
- Packaging: 50 panels/unit (17.5 mm)
44 panels/unit (19 mm)
- Other thicknesses and sizes or overlays on two sides are available on special order.



ULTRAFORM®

1-STEP Concrete Forming Panels



CARE AND HANDLING

To achieve ULTRAFORM's full re-use potential, the following procedures are recommended:

STORAGE

Panels should be stored on a dry, level platform under shelter or otherwise protected. Steel straps should be cut and the forming surface of the top panel covered. Prolonged exposure to direct sunlight may cause degradation.

FORM CONSTRUCTION

- Carbide-tipped blades are recommended. Cut or exposed edges must be resealed with a water and alkali resistant sealant or paint to prevent moisture absorption and minimize swelling.
- Panels should be fixed to framing supports with screws. Screws can be countersunk and filled to maintain concrete appearance.
- Reduce joint leakage by filling joints with a suitable tape or expandable caulk.
- Avoid chipping or denting panel surfaces and damaging panel edges during handling.

CONCRETE PLACEMENT

Use rubber-tipped vibrators for consolidation. Vibrators should not be used to move concrete horizontally in forms. As well, rate of pour and slump factor must be limited to that assumed in the design of the form.

CLEANING AND TREATMENT

- Coat panels with Nox-Crete or equivalent quality petroleum-based chemically-active release agent before initial use and subsequent uses. This will simplify stripping and cleaning, lengthen form life and improve concrete appearance. Coatings such as diesel fuel, barrier release agents or crankcase oil are not recommended as they may damage the MDO face.
- Use wooden wedges if aids for stripping are required. Using metal implements will cause perimeter damage.
- Clean panels immediately after stripping using non-abrasive tools such as brushes and plastic or wooden scrapers.



13911 Vulcan Way, Richmond, BC, Canada V6V 1K7
Tel: 604-278-9111 Fax: 604-278-2617
www.richply.com

WHO WE ARE

Richply has been producing high quality products since its inception in 1956 and is British Columbia's largest manufacturer of Douglas fir plywood.

ENVIRONMENTAL POLICY

Richply is committed to sustainable forests and reforestation and is in full compliance with all government forest practice regulations, including the Forest Practices Code of B.C. Act.

LOAD SPAN DATA

The table below gives allowable loads for various spans and plywood thicknesses. These loads were calculated using the procedures given in the Council of Forest Industries publication "Canadian COFI Exterior Plywood for Concrete Formwork – Engineering Information" 1991.

The values given are valid for plywood spanning continuously across four or more supports with face grain perpendicular to supports. All loading is to be uniformly distributed.

While every precaution has been taken to ensure that all the information contained in this publication is accurate, Richmond Plywood Corporation assumes no responsibility for any errors or oversights in the use of it or in the preparation of designs based on it or for any work based on it.

| OVERLAID PLYWOOD SPAN TABLE COFIFORM SP PLUS | | | | | | | |
|--|-----------------------|---|-------------|---------------|-------------|---------------|-------------|
| Minimum Width of Support | Centre to Centre Span | Permissible Concrete Pressure (KN/m ²) For given Thickness and Deflection Limitation | | | | | |
| | | 17.5 mm L/180 | 19 mm L/180 | 17.5 mm L/270 | 19 mm L/270 | 17.5 mm L/360 | 19 mm L/360 |
| 38 | 100 | 216 | 227 | 216 | 227 | 216 | 227 |
| | 150 | 119 | 126 | 119 | 126 | 119 | 126 |
| | 200 | 83 | 87 | 83 | 87 | 83 | 87 |
| | 400 | 35 | 39 | 32 | 39 | 24 | 29 |
| | 600 | 16 | 18 | 11 | 13 | 8.2 | 10 |
| | 800 | 7.3 | 9.1 | 4.9 | 6.1 | 3.7 | 4.5 |

RICHPLY'S GUARANTEE

ULTRAFORM is guaranteed for the life of the panel against delamination of either the inner ply or overlay surface and against manufacturing defects. If failure occurs, Richply will reimburse the purchase price of the material or, at its option, replace the defective panel(s).

DISTRIBUTED BY:

