EAGLE PLYWOOD SPECIALTIES

# HDO Concrete Form Panels

## HDO – THE BEST VALUE IN A MULTI-POUR PANEL

If you are looking for a concrete forming panel that gives optimal finish with a minimum of grain telegraphing then you have found what you want in Eagle's HDO fir plywood panels. In addition, when the job requires 10 and more pours, HDO is the most cost effective plywood product.

Eagle's HDO is manufactured using thermosetting resin-impregnated fiber bonded to both sides of the plywood. Under heat and pressure the resins flow to create a smooth, durable, and chemically resistant forming panel. This surface represents the latest in research and development from Dynea – the world leader in overlay technology.

Designed to the highest standards of quality assurance, our HDO panels give the user a uniform surface that promotes uniform hydration. The result is an excellent concrete finish. Abrasion and chemical resistance are important when extended reuse is part of your equation. Through proper handling, cleaning, and application of release agents, **HDO will outlast competitive products pour after pour.**

### We offer more choices:

- Thickness: 3/8, 1/2, 5/8, 11/16, 3/4, 1, 1-1/8"
- Width: 2', 4'
- Length: 8', 9', 10', 12' with continuous non-scarfed panel
- Available in both Good-1 side and Good-2 side configurations
- Grade stamped with the APA trademark and PS-1
- Silver factory applied edge seal
- Standard Class 1 concrete forming designation. Struc 1 available on request.
- Ship by rail, truck, van or container


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*DOUGLAS FIR PLYWOOD - A QUALITY CHOICE*

# EAGLE HDO Concrete Form Panels

## Engineered for Performance

Eagle HDO panels are available in a variety of thicknesses and sizes. The panel thickness requirements are based on the pressures of the concrete, the form work support structure and all other associated loads. Below are tables that illustrate the allowed concrete pressures for various HDO panel thicknesses at commonly used support spacings. The highest values are achieved when the face grain of the plywood is at right angles to the supports. These values are shown in Table 1. Somewhat lower values occur when the face grain of the plywood is parallel to the supports. These tables are derived from the structural properties of plywood and reflect the standards of APA and PS-1. Note also that an unsupported panel edge may deflect more that the panels center under certain high moisture or load conditions. Eagle is unique among HDO manufacturers in our ability to produce up to 4' x 12' panels with a continuous overlay surface (non-scarfed panel).

**Table 1 – *Long Direction Across Supports – Plywood continuous across two or more spans***

| Support Spacing | Plywood Thickness – Allowable Pressure (psf) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1/2" | | 5/8" | | 3/4" | | 1-1/8" | |
| | l/360 | l/270 | l/360 | l/270 | l/360 | l/270 | l/360 | l/270 |
| 8" | 1155 | 1155 | 1365 | 1365 | 2040 | 2040 | 2949 | 2949 |
| 12" | 490 | 515 | 705 | 845 | 995 | 995 | 1826 | 1826 |
| 16" | 210 | 280 | 320 | 395 | 495 | 560 | 1157 | 1199 |
| 19.2" | 120 | 160 | 190 | 255 | 300 | 390 | 755 | 832 |
| 24" | — | — | 100 | 130 | 160 | 215 | 432 | 533 |

**Table 2 – *Short Direction Across Supports – Plywood continuous across two or more spans***

| Support Spacing | Plywood Thickness – Allowable Pressure (psf) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1/2" | | 5/8" | | 3/4" | | 1-1/8" | |
| | l/360 | l/270 | l/360 | l/270 | l/360 | l/270 | l/360 | l/270 |
| 8" | 485 | 555 | 775 | 775 | 1690 | 1690 | 2586 | 2586 |
| 12" | 140 | 185 | 355 | 410 | 715 | 815 | 1601 | 1601 |
| 16" | — | — | 150 | 200 | 310 | 415 | 957 | 1028 |
| 19.2" | — | — | 105 | 130 | 225 | 255 | 571 | 571 |
| 24" | — | — | — | — | 115 | 155 | 365 | 365 |

## Preparation

HDO panels are edge sealed at the mill with a high quality oil-base coating. During form work construction, plywood edges are often exposed by sawing and drilling. These edges should be sealed with two coats of a high quality oil base paint. This slows down the penetration of water which can cause panel swelling, edge failure, and staining.

HDO panels are not factory release coated. Prior to each pour, lightly coat the panel surfaces with a chemically reactive form release. This coating helps produce a quality concrete finish as well as prolong the life of the panels. Follow the manufacturer's recommendations for application rate.

## Stripping

Panels last longer when handled properly. Don't use metal pry bars; they damage the plywood surface. Wood wedges work the best.

## Cleaning

Panel surfaces should be cleaned of concrete residue as soon after stripping as possible. Failure to remove concrete residue prevents a good release on the next pour. Panel life is shortened and the concrete surface compromised. Use wood or plastic scrapers, fiber brushes or burlap. Do not use metal. Panels should be inspected for damage. Minor dents and dings can be patched with auto body putty.

## Handling and Storage

Careful handling and proper storage will prolong the usability of HDO plywood. Dropping panels is one of the most common ends to an otherwise good panel. Panels should be stored flat and protected from weather and sun.