

HARDWOOD PLYWOOD - PHYSICAL PROPERTIES



| Properties | Domestic Fir Core | Pro-Core II | Pro-Core IV | MDF | PBC |
|---------------------------------|--|---|---|--------------------------------|--------------------------------|
| Wood Species | Douglas Fir, Hemlock, Pine, White Fir, Balsam, Larch, Etc. | Douglas Fir, Hemlock, Pine White Fir, Balsam, Larch, Etc. | Douglas Fir, Hemlock, Pine White Fir, Balsam, Larch, Etc. | Fir/Pine | Fir/Pine |
| Number Piles 3/4 " Panel | 7 | 7 | 7 & 9 | 3 | 3 |
| Blanks or 1 Step | Both | Both | Both | n/a | n/a |
| Formaldehyde Standard | CARB Phase 2 or NAUF | CARB Phase 2 or NAUF | CARB Phase 2 or NAUF | CARB Phase 2 or NAUF | CARB Phase 2 or NAUF |
| Glue Chemistry | ULEF or NAUF | ULEF or NAUF | ULEF or NAUF | ULEF or NAUF | ULEF or NAUF |
| Formaldehyde fuming Ave. (ULEF) | Below .05ppm | Below .05ppm | Below .05ppm | Below .05ppm | Below .05ppm |
| Formaldehyde fuming Ave. (NAUF) | Below .03ppm (depends on wood) | Below .03ppm (depends on wood) | Below .03ppm (depends on wood) | Below .03ppm (depends on wood) | Below .03ppm (depends on wood) |
| Enviromental Certification | FSC/SFI | FSC/SFI | FSC/SFI | FSC/SFI/ECC | FSC/SFI/ECC |
| Oversize Availability? | Yes | Yes | Yes | Yes | Yes |
| HPVA Core Grade | K or L as 1-step J as Blank | J | J | J | J |
| Dimensional Stability | Good | Very Good | Excellent | Excellent | Very Good |
| Density | 31+/-5 pcf | 40+/-5 pcf | 41.5+/-5 pcf | 46+/-5 pcf | 42+/-5 pcf |
| MOR (perpendicular to the face) | 6000+ (psi) | 4900+ (psi) | 3400+ (psi) | 3300+ (psi) | 1300+ (psi) |
| MOR (parallel to the face) | 5000+ (psi) | 7800+ (psi) | 7200+ (psi) | 6400+ (psi) | 4500+ (psi) |
| MOE (perpendicular to the face) | 900,000+ (psi) | 485,000+ (psi) | 499,000+ (psi) | 405,000+ (psi) | 320,000+ (psi) |
| MOE (parallel to the face) | 700,000+ (psi) | 900,000+ (psi) | 1,000,000+ (psi) | 850,000+ (psi) | 630,000+ (psi) |
| Screw Hold (face) | 350 (lbs) | 345 (lbs) | 360 (lbs) | 240 (lbs) | 240 (lbs) |
| Screw Hold (edge) | 300 (lbs) | 200 (lbs) | 340 (lbs) | 250 (lbs) | 200 (lbs) |
| Tolerance (Blank) | +/- .015 From Target | +/- .015 From Target | +/- .015 From Target | n/a | n/a |
| Tolerance (One Step) HPVA | +0/- .047 | +0/- .047 | +0/- .047 | n/a | n/a |
| Water Absorption (% 24hrs) | n/a | 16.7 (%) | 18.7 (%) | 8 (%) | 13.1 (%) |
| Thickness Swell (% 24hrs) | n/a | 4.3 (%) | 5 (%) | 3.2 (%) | 3.9 (%) |
| Janka Ball Hardness (lbs) | 741 | 779 | 1063 | 1044 | 794 |
| Wt./M ft2 (lbs) | 965 | 1258 | 1302 | 1437 | 1319 |

Note: All physical properties change from panel to panel depending on the natural characteristics of the wood used to make the panel.