

# NF ELIT BuildPly



BuildPly™ is a premium birch plywood panel crafted from 100% high-quality birch veneers and advanced adhesives. Designed for structural, industrial, and decorative applications, it delivers superior strength, moisture resistance, and a smooth surface ideal for machining, painting, laminating, or finishing. Certified to international standards, including FSC™, CARB, and EN 13986, BuildPly™ ensures quality and environmental compliance.

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ENHANCED MOISTURE  
RESISTANCE



100%  
Birch



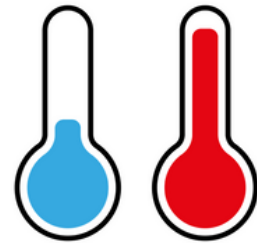
Smooth  
Surface



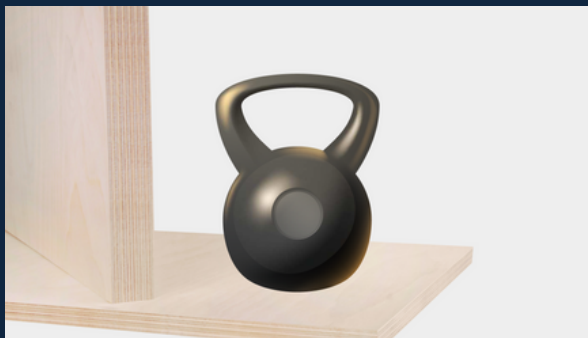
Void-  
Free



Certified



RESISTANT TO TEMPERATURE  
FLUCTUATIONS  
FROM -40°F TO +122°F



DURABILITY AND  
WEAR RESISTANCE



WIDE RANGE OF  
THICKNESSES AND  
SIZES

Strong • Lightweight • Durable

Key Benefits

- **High Moisture Resistance:** Performs reliably in humid conditions without warping or swelling, certified to EN 314-2 Class 2 (WBP adhesive).
- **Exceptional Strength:** Surpasses softwood plywood, validated by ANSI/HPVA HP-1 standards.
- **Durable Surface:** Hard, wear-resistant finish withstands heavy use, backed by CARB Phase 2/TSCA Title VI certification.
- **Temperature Stability:** Reliable from -40°F to +122°F (-40°C to +50°C), suitable for diverse environments.
- **Versatile Options:** Multiple sizes, thicknesses, and finishes, with FSC™ certification available.

Face Grades (U.S. / EU Equivalents)

- **A/B (I/II):** Clear face, sound reverse
- **B/B (II/II):** Minor repairs on both sides
- **C/D (III/IV):** Utility grade for structural or hidden use

Surface Finishes

- **Phenolic Film-Faced** (smooth or mesh pattern)
- **Sanded 2 Sides (S2S)**
- **Sanded 1 Side (S1S)**
- **Unsanded (NS)**
- **Edges:** Raw or sealed with acrylic paint (optional)

Adhesive Systems

- **WBP (Phenol-Formaldehyde):** Moisture-proof, meets EN 314-2 Class 2
- **UF (Urea-Formaldehyde):** Interior grade, meets EN 314-2 Class 1
- **Low-Emission UF:** CARB Phase 2/TSCA Title VI ( $\leq 0.05$  ppm formaldehyde)
- **E0.5/E0 formulations** available on request

Available Sheet Sizes

- 48" × 96" (1220 × 2440 mm)
- 60" × 60" (1525 × 1525 mm)
- 60" × 120" (1525 × 3050 mm)
- Custom sizes available upon request

Thicknesses

- 1/8" (≈ 3 mm)
- 1/4" (≈ 6 mm)
- 3/8" (≈ 9 mm)
- 1/2" (≈ 12 mm)
- 1-1/2" (40 mm)\*

\*on request

Technical Specifications

- |   |  |
|---|--|
| • <b>Density:</b> 40–44 lb/ft <sup>3</sup> (640–700 kg/m <sup>3</sup> ) | • <b>Static Bending Strength:</b> $\geq 10,150$ psi (70 MPa)               |
| • <b>Moisture Content:</b> 5–12%  | • <b>Tensile Strength:</b> $\geq 4,350$ psi (30 MPa)                       |
| • <b>Strength Properties:</b>   | • <b>Modulus of Elasticity (Bending):</b> $\geq 1,015,000$ psi (7,000 MPa) |



For the Production of High-Quality Furniture



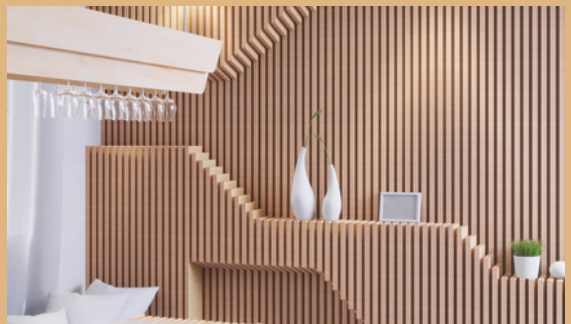
Toys and Children's Furniture



Construction, Exterior and Interior Use



Wall Panels



Underlayment for engineered hardwood and parquet flooring



Use in Commercial Transportation

