



# PLYWOOD CATALOG

**NF ELIT**<sub>LLC</sub>

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# About NF ELIT WOOD

**Reliable. Certified. Made for the U.S. market.**

NF ELIT WOOD is the wood products division of NF ELIT, focused on high quality birch plywood for the United States. We work with multiple manufacturing facilities in Turkey, combining modern production methods with a skilled workforce to produce panels with consistent strength, smoothness and dimensional stability.



## **Key facts about NF ELIT WOOD and our birch plywood program:**

- Manufacturing in Turkey, close to major ports and trade lanes.
- 100% birch construction from face to core, no filler layers.
- CARB Phase 2 and TSCA Title VI compliant emission levels for U.S. requirements.
- Flexible supply volumes, from regular wholesale deliveries to full container loads.

# Birch Plywood Solutions

## Versatile products designed for various applications and needs

NF ELIT WOOD specializes in birch plywood solutions tailored to meet diverse **industry requirements**. Our products are engineered to offer exceptional strength, durability, and versatility, making them ideal for a wide range of applications in construction, furniture, and more.

With a comprehensive product range that includes **interior and exterior plywood**, colored options, and flexible solutions, we ensure that our customers have access to high-quality materials that fit their specific project needs. Our commitment to excellence and sustainability underscores our dedication to the U.S. market.

*Quality and versatility*

## Interior & Exterior

Our interior and exterior plywood options provide exceptional performance in any setting.

## Flooring

NEXA-pattern plywood delivers durable, anti-slip flooring for transport decks, industrial areas, and concert stages..

## Colored

Vibrantly colored plywood enhances aesthetics while maintaining durability for various uses.

## Laser-Grade

Laser-grade plywood is ideal for precision cutting and intricate design work.

# Interior & Exterior Plywood Versatile. Durable. Perform.

## Product description:

NF ELIT interior and exterior birch plywood is made from 100% birch veneers, cross bonded and hot pressed to ensure high strength, excellent screw holding and dimensional stability. It is designed for both dry and humid conditions and works as a universal solution for multiple applications.

## Key features:

- 100% solid birch core; no filler layers.
- Multi ply construction (5–21 plies depending on thickness).
- Excellent face and edge integrity.
- Available with MR (urea) or WBP (phenol) adhesive.
- Calibrated thickness tolerance for precision work.

## Available grades:

- Face grades: B/BB, BB/BB, BB/CP.
- Glue types: interior (MR), exterior (WBP).
- Finishing: sanded 120–180 grit, raw surface.

## Typical applications:

- Interior: furniture, cabinets, wall paneling, shelving.
- Exterior: formwork (short term), packaging, outdoor structures.
- DIY and crafts: machinable panel with a smooth surface.

## Sizes and specs:

- Standard size: 4' x 8' (1220 x 2440 mm).
- Thickness range: 1/8' to 1' (3–25 mm).



# Colored Birch Plywood Chic. Durable. Bright.

## Product description:

Colored plywood is birch plywood coated with translucent or pigmented color film to combine the natural beauty of wood with striking visual appeal. The finish is UV resistant and durable, making it suitable for both vertical and horizontal interior applications.

## Key features:

- Factory applied decorative color coating.
- Available in transparent tints or solid colors.
- UV and scratch resistant surface.
- 100% birch core for strength and precision.
- No need for further painting or treatment.
- Excellent machinability and edge quality.

## Typical applications:

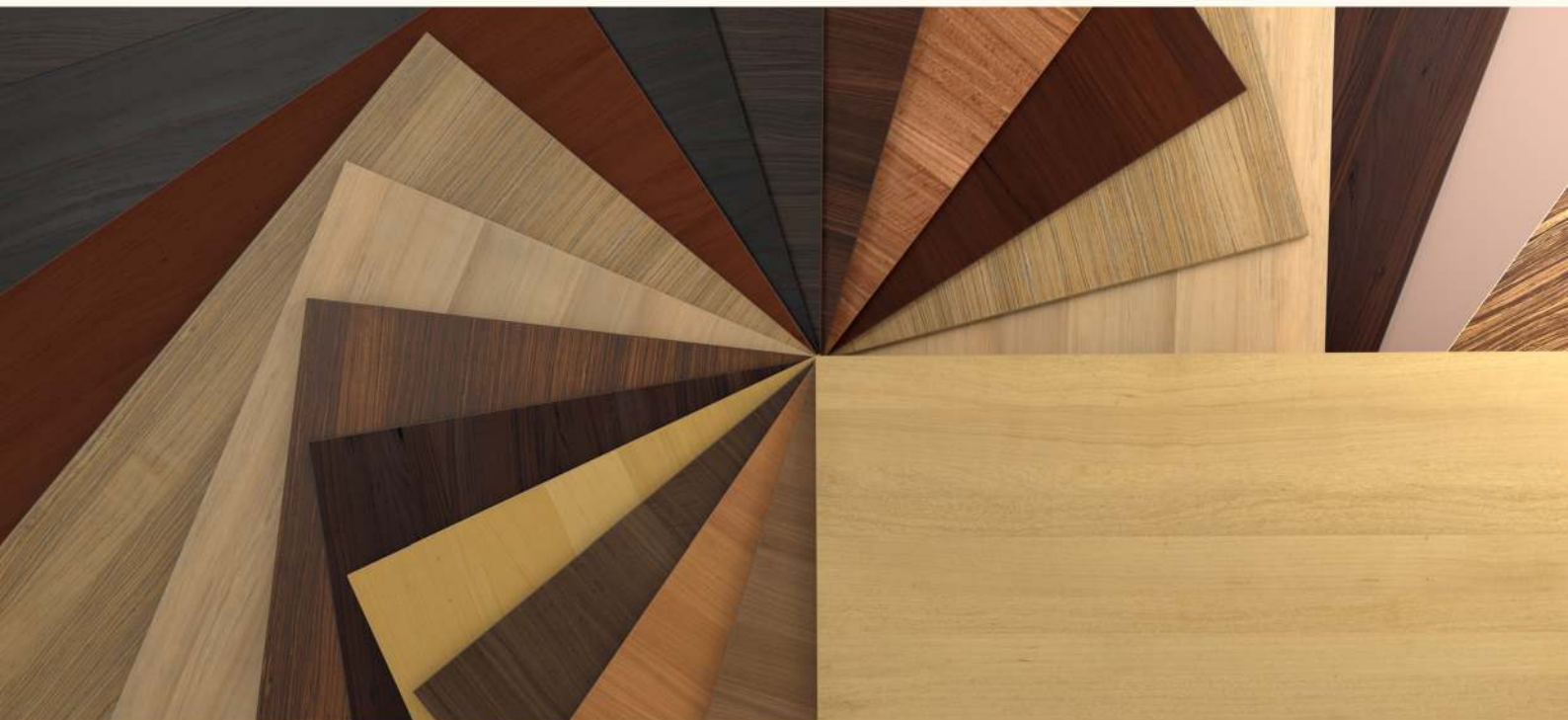
- Interior design and wall cladding.
- Display furniture and retail shelving.
- Children's furniture.
- Exhibition and trade show stands.

## Available options:

- Colors: natural tint, red, black, gray, blue, yellow; custom colors on request.
- Surface: semi matte, smooth finish.
- Glue: interior (MR) or exterior (WBP).

## Sizes and specs:

- Size: 4' x 8' (1220 x 2440 mm).
- Thickness: 1/4' to 3/4' (6–18 mm).



# Flexible Birch Plywood Bend. Shape. Create.

## Product description:

NF ELIT flexible birch plywood is specially manufactured to allow bending along the grain direction without cracking. It is designed for curved furniture, decorative panels and creative interior designs. Flexible plywood remains stable and strong even when shaped into tight radii.

## Key features:

- Flexible along one axis for forming curves.
- Birch veneer construction for strength and durability.
- Suitable for both convex and concave forms.
- Easy to cut and shape.
- Can be finished with paint, veneer or laminate.
- Minimal spring back effect.

## Available grades:

- Core: birch or eucalyptus.
- Face: sanded, rotary cut birch.
- Glue: MR adhesive for interior use.

## Typical applications:

- Curved furniture components.
- Wall niches and columns.
- Reception desks and counters.
- Creative interior forms.

## Sizes and specs:

- Size: 4' x 8' (1220 x 2440 mm).
- Thickness: 1/8' to 1/4' (3–6 mm).



# Laser Birch Plywood Cut. Clean. Precise.

## Product description:

Laser grade birch plywood is made with ultra smooth, defect free birch veneers and low emission adhesive, making it ideal for laser cutting and CNC machining. It delivers clean precision and maintains excellent strength and stability.

## Key features:

- High quality, sanded birch surface (180+ grit).
- Core calibrated for uniform thickness and minimal gaps.
- Low smoke and reduced charring during laser cutting.
- CARB Phase 2 and TSCA Title VI certified panel options.
- Compatible with laser cutters, CNC routers and engravers.

## Available grades:

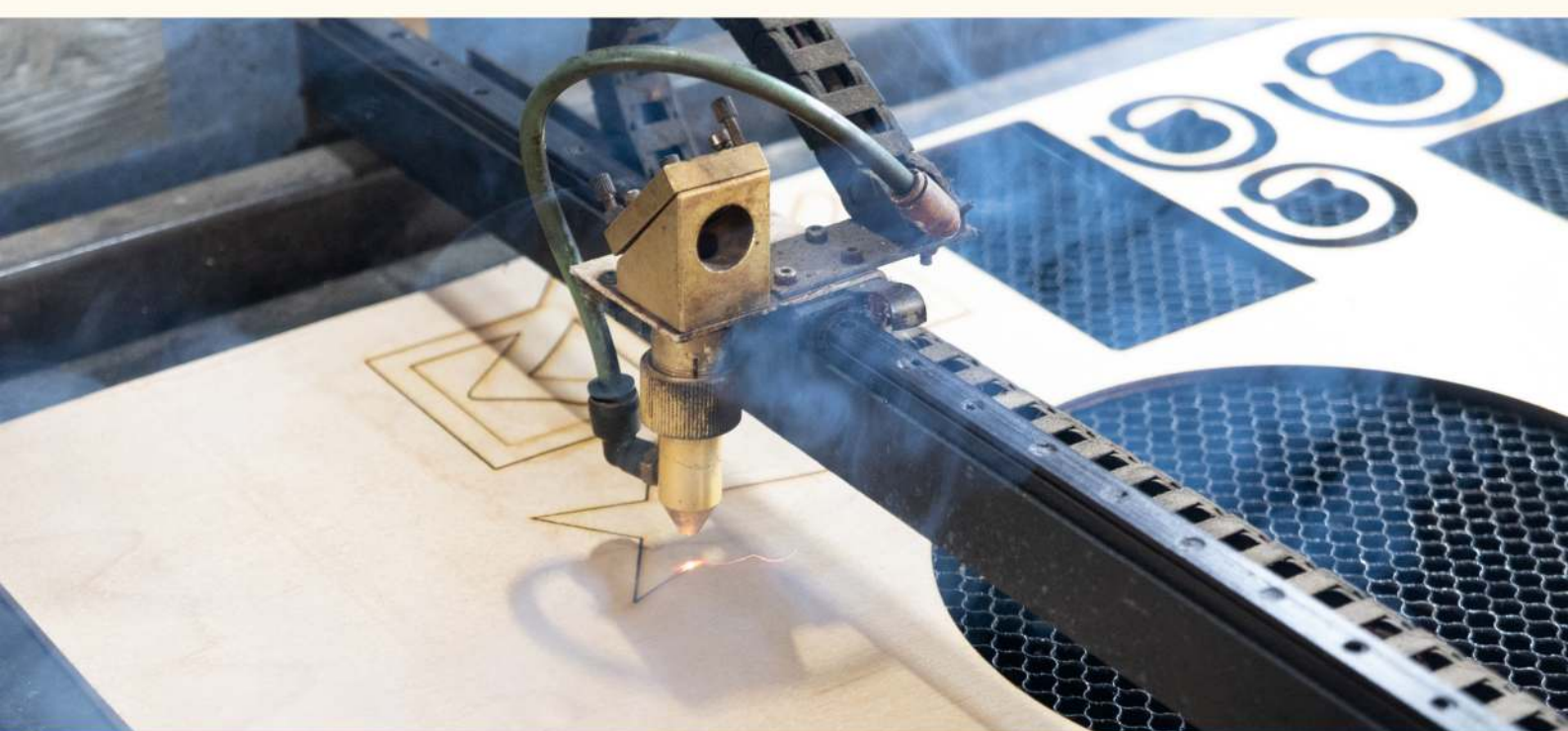
- Face: B/B or BB/BB.
- Core: 100% birch, calibrated.
- Glue: formaldehyde free or low emission E1 / CARB glue.

## Typical applications:

- Laser cutting and engraving.
- Model making and architectural prototyping.
- Crafts and hobby projects.
- Electronics enclosures.

## Sizes and specs:

- Sizes: 12' x 19', 24' x 48'.
- Thickness: 1/8' to 1/2' (3–12 mm).



# Heavy-Duty Flooring Load. Grip. Strong.

## Product description:

HCV transport panels are engineered birch plywood sheets designed for use in trailers, trucks and cargo floors. They are ideal where exceptional durability, wear resistance and anti slip protection are required in industrial transport environments.

## Key features:

- High density birch core.
- Reinforced surface with wear resistant coating.
- Optional anti slip film or mesh surface.
- Moisture resistant phenolic bonding (WBP).
- Excellent mechanical strength and impact resistance.
- Ready for screwing, bolting and load bearing use.

## Typical applications:

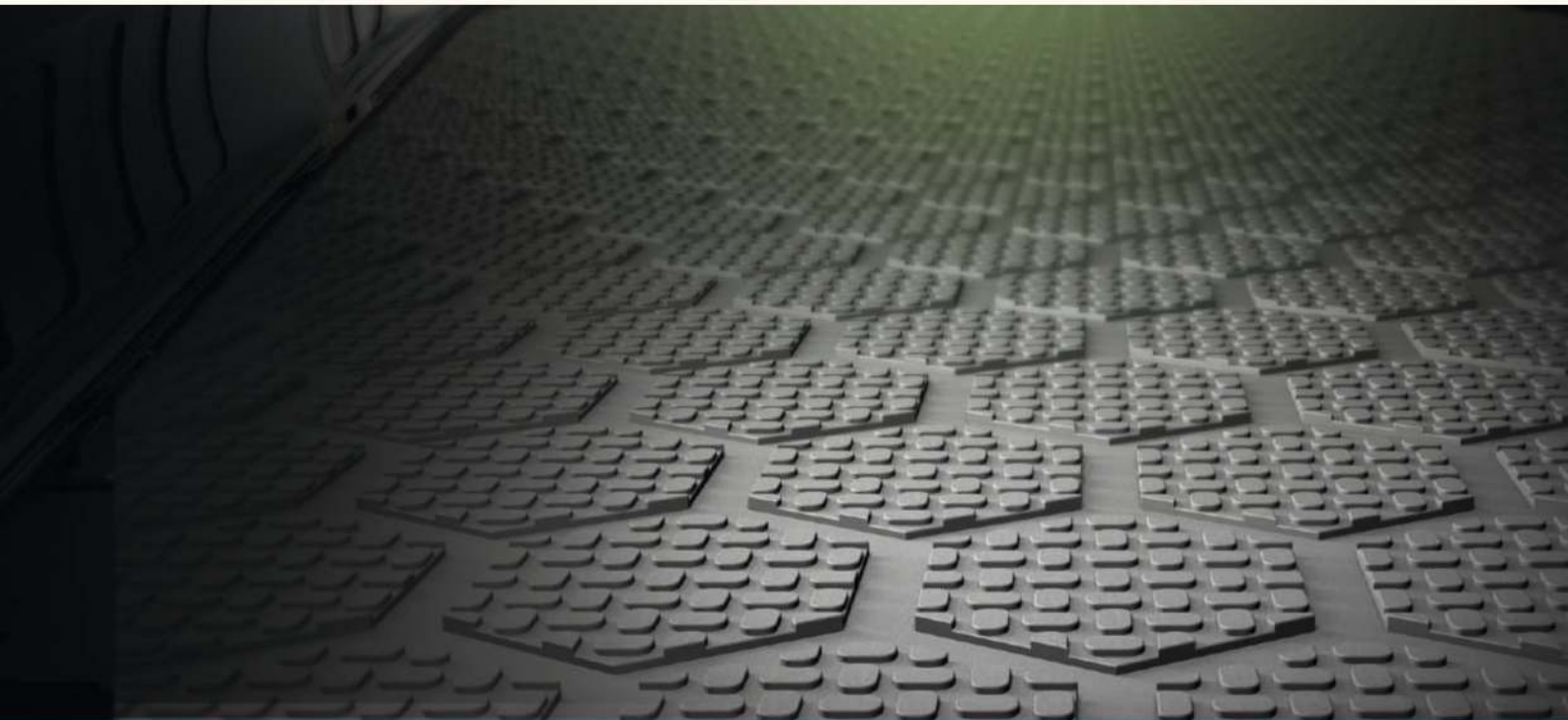
- Trailer floors.
- Cargo boxes and van interiors.
- Container linings.
- Truck beds and logistics platforms.

## Available grades:

- Core: 100% birch.
- Surface: smooth or mesh faced phenolic film.
- Glue: WBP phenolic resin.
- Edge sealing with water resistant paint.

## Sizes and specs:

- Size: 4' x 8' (1220 x 2440 mm).
- Thickness: 1/2' to 1' (12-25 mm).



# Parquet Plywood Stable. Flat. Quiet.

## Product description:

Parquet plywood is crafted from 100% birch and designed specifically for engineered flooring applications. With exceptional moisture resistance, precision thickness tolerances and high strength veneers, it provides a reliable foundation.

## Key features:

- High quality birch veneers; solid, hand selected veneers ensure superior bonding strength ( $\geq 1.75$  MPa for premium grades).
- Moisture resistant bonding designed to resist humidity variations, preventing warping and decay.
- Precision tolerances manufactured to thickness tolerances of plus or minus 0.2 mm for consistent performance.
- Formaldehyde free systems compliant with E1, E0.5 and CARB standards.

## Available grades:

- Premium grade: hand selected veneers with moisture content around 5–9% for top stability.
- Standard grade: reliable performance with tight thickness tolerances.

## Sizes and specs:

- Sizes: 4' x 8' (1220 x 2440 mm) and 5' x 5' (1525 x 1525 mm).
- Thickness: 6 mm to 15 mm (custom on request).



# FormMaster Plywood Smooth. Strong. Reusable.

## Product description:

FormMaster is a high-performance film-faced birch plywood panel engineered for reusable concrete formwork. A dense birch core combined with phenolic film faces delivers smooth concrete surfaces, high wear resistance, and reliable performance in tough jobsite conditions.

## Key benefits:

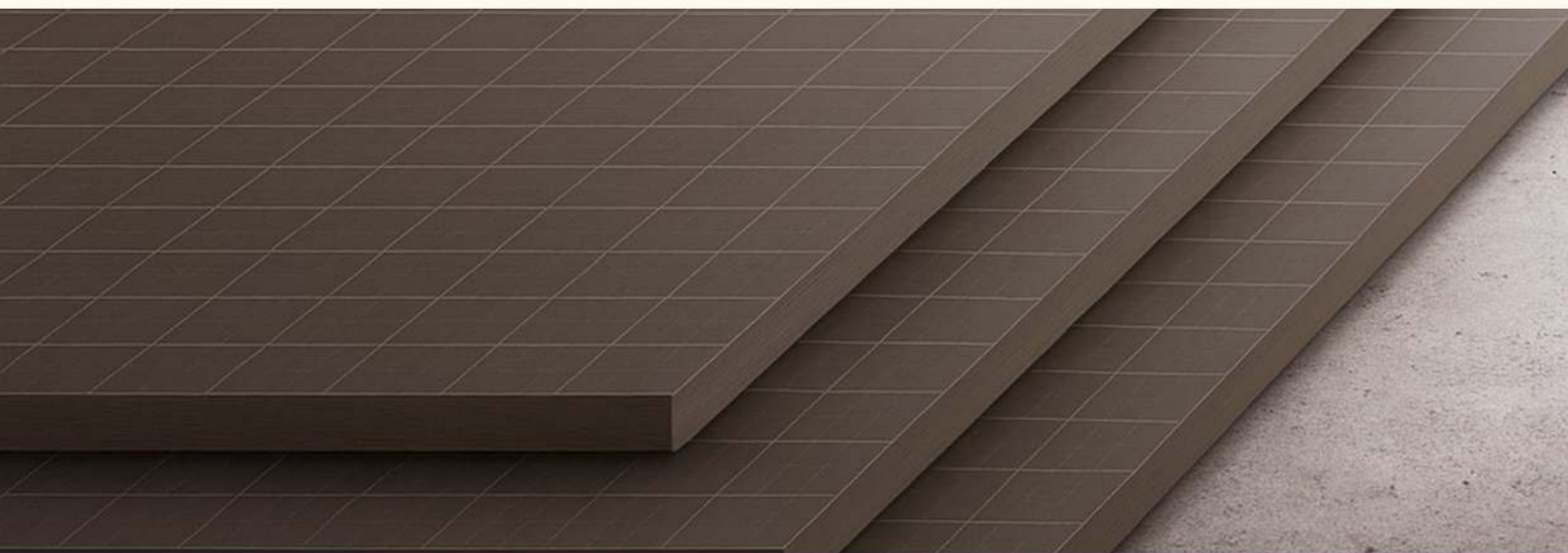
- 100% birch veneers with multi-layer construction for strength and stiffness
- phenolic film facing (smooth or mesh) for abrasion and impact resistance
- WBP-grade bonding and sealed edges for water and chemical resistance
- low-emission glue systems compliant with E1 / CARB Phase 2
- stable performance from -40 °F to +120 °F without film degradation.

## Technical snapshot:

- core: 100% birch, multi-ply
- smooth or mesh-pattern phenolic film
- film density: standard 120 g/m<sup>2</sup> or heavy-duty 220 g/m<sup>2</sup>
- reusability: around 15–20 pours (standard film) and 25–30 pours (heavy-duty film), with proper handling and cleaning
- density and strength: designed for high bending strength and stiffness in both directions

## Standard sizes & thicknesses:

- sizes: 4' x 8' (48" x 96"), 5' x 10' (60" x 120"); cut-to-size available
- thickness range: 12 mm (½"), 15 mm (⅝"), 18 mm (¾"), 21 mm (⅞"), 24 mm (1"), up to 30 mm (1¼")



# Applications & Solutions

Birch plywood for construction and formwork (smooth film-faced panels for clean release and multiple reuse), furniture and interiors (stable, clean surfaces for cabinets, tables, wall panels and retail fixtures), transportation (strong, wear-resistant floors and linings for trucks, vans, buses and export packaging), curved structures (flexible plywood for elegant architectural curves and counters), laser cutting and engraving (calibrated, gap-free panels for clean CO<sub>2</sub> and diode laser work), and flooring base layers (parquet plywood cores for stable, dimensionally accurate floors).

From robust construction and formwork to elegant furniture interiors, our birch plywood solutions cater to a wide array of uses. With options that include curved and laser applications, NF ELIT WOOD products provide the flexibility and strength needed for your projects, allowing creativity to flourish.

*Discover our solutions*

## Construction & Formwork

Engineered to perform under high load and high moisture conditions. Ideal for concrete formwork, scaffolding platforms and structural subfloors.

## Transportation

Widely used in truck and trailer floors, van wall linings, bus and RV interiors and heavy duty transport packaging where strength and wear resistance are critical.

## Furniture & Interiors

Preferred for high end furniture, cabinets, wall panels and retail displays thanks to its strength, clean appearance and excellent machining properties.

## Curved, Laser & Flooring Applications

Flexible plywood for curved structures, laser grade panels for cutting and engraving and parquet base plywood for high performance flooring systems.

# Technical & Compliance

## 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

## Technical Specifications

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

## Technical summary

High bonding strength with multi ply birch cores, suitable for structural and load bearing uses when designed correctly.

Bonding performance

Production under documented procedures, traceability and regular audits, supporting U.S. and EU customer requirements.

Quality and certification

Low formaldehyde emissions in line with CARB and TSCA limits for specified products.

Emission performance

# Let's build better together.

## Ordering & logistics

NF ELIT WOOD is the plywood division of NF ELIT for the U.S. market.

We supply certified birch plywood made in Turkey, stocked to U.S. specifications and shipped directly to American ports. Our Cincinnati based team supports you with product selection, documentation and logistics.

### Contact:

**Web:** [www.nfelitwood.com](http://www.nfelitwood.com)

**Email:** [info@nfelitwood.com](mailto:info@nfelitwood.com)

**Phone:** (513) 255-3103

- Custom dimensions and finishes available.
- Any volume: from small wholesale orders to full container loads.
- Expert support from our Cincinnati based team.
- Fast lead times and port to warehouse logistics.

Detailed plywood solutions for construction, interiors, transport, curved forms, laser work and flooring.

