

1 3/4"

wide Beams & Headers



**Now
Available**
from
Nordic
Engineered
Wood



Nordic Engineered Wood offers price/performance solutions to meet all your design and building requirements. Nordic products are made from black spruce, known for its light weight, fiber density and dimensional stability.

Each piece of black spruce is optically scanned for defects prior to manufacturing. Every component of Nordic Lam is then machine stress-rated to a minimum value of 1650f MSR to assure consistent design values.

TO FIND OUT MORE ABOUT Nordic Engineered Wood Products:

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Hobby Acres, P.O. Box 517
Kresgeville, PA
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www.nordicewp.com



The Natural Advantage of Nordic Lam™

- Industrial / Architectural Applications
- Balanced Layout
- Time Saving Installation
- No Shrinkage
- Consistent Moisture Content
- Excellent Fire Resistance
- Light Weight
- Optimized Fiber Usage
- Meets All Major Building Codes

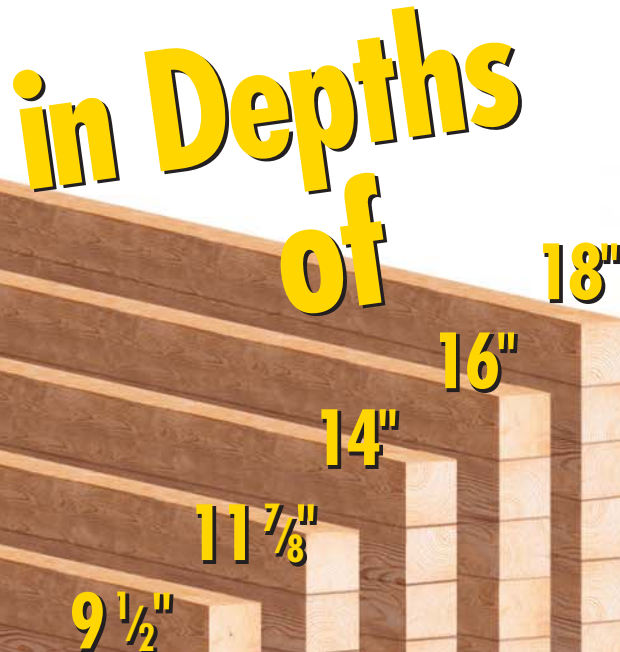
High Strength, Light Weight, the Natural Alternative to LVL

Easier to specify, easier to use in the field, Nordic glulam products are suited for a variety of applications and are made to match I-joist, dimensional lumber or traditional glulam depths.

Our 1¾" wide beams are the perfect framing solution for single-ply applications such as stairwell openings or single-ply headers, saving money, time and labor. Installation is accomplished using conventional carpentry methods and tools.

Versatile and flexible, the 1¾" wide beam comes

in Depths of 9½", 11⅞", 14", 16", 18"



ALLOWABLE DESIGN STRESSES FOR 1-3/4" WIDE BEAMS

NORDIC LAM™	VALUE 20F-1.5E	SELECT 24F-1.8E
Modulus of Elasticity E	1.5x10 ⁶ psi	1.8x10 ⁶ psi
Flexural Stress F _b	2000 psi	2400 psi
Horizontal Shear F _v	250 psi	250 psi
Compression Perpendicular to Grain F _{cp}	450 psi	560 psi
Compression Parallel to Grain F _c	1000 psi	1150 psi

Notes:

1. Beam weight should be based on density of 35 pcf.
2. Moment capacity must be adjusted for volume effect.
The volume factor formula is: $C_v = (12/d)^{1/10} \times (5.125/b)^{1/10} \times (21/l)^{1/10} \leq 1.0$ where d = beam depth (in), b = beam width (in), and l = beam length (ft).
3. Moment and shear capacities are based on a normal (10 years) duration of load and should be adjusted for the design duration of load per the applicable building code.

Exclusive ENVIRO E LAM™ Technology

Nordic offers an environmentally responsible choice for residential and light commercial applications.

Our state-of-the-art manufacturing facility optimizes fiber usage while delivering uncompromising quality. Nordic has increased fiber utilization by developing the **ENVIRO E LAM™** lay-up process, minimizing waste and converting more of nature's raw material into useful products than ever before. From trunk to tip, the **ENVIRO E LAM™** process allows us to conserve our natural resources by extracting more valuable fiber from every tree.



ENVIRO E LAM™