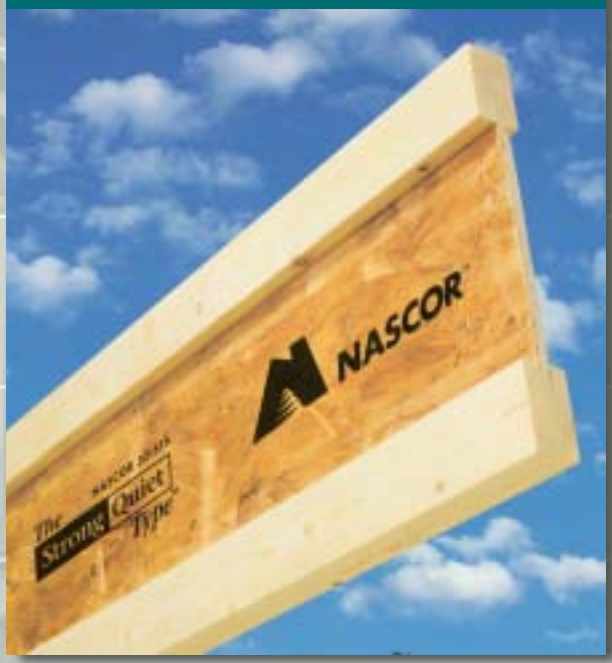
For more information, view our website on I-Joists at http://www.ufpi.com/product/ijoist/

Nascor™ Floor Joists
NJ Series

Engineered Wood Products



Universal Forest Products®, Inc.

Nascor™ Floor Joists NJ Series

To most new home buyers, the structural integrity of their home is measured by what they don't see. NASCOR joists are brilliantly engineered to allow more interesting, open spaces and are installed much like conventional floor systems yet offer superior strength and lighter weight.

Product Description.

The NJ series joist is a composite wooden I beam designed specifically for the residential market. Available in 9 1/2" and 11 7/8" depths, these joists act as the closest substitute for 2x10 and 2x12 sawn lumber.

Product Advantages.

Uses less web for lower costs. Due to the nature of its design this joist is far easier to cut and handle than a traditional I shaped joist.

The NJ series utilizes many of the same installation details typical in a conventional floor system. This joist is definitely the framer's choice.

Product Evaluations.

NASCOR products are listed with the following agencies:

BOCA #97-76
SBCCI #9920A
ICBO #5138
State of Wisconsin #960046-W
State of New York #657-96-M&MC

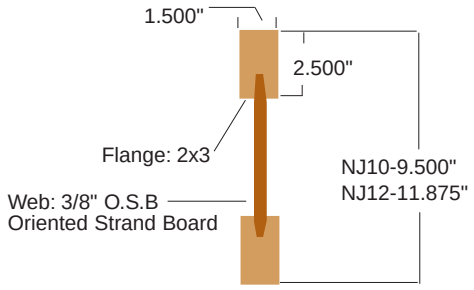
Properties and Materials.

The NJ joist is manufactured using three key materials:

Flange - 2x3 kiln dried SPF graded according to NLGA, ALSC and Nascor's graded specifications.

Web - 3/8" oriented strand board, Exposure 1, Structural 1 Rated.

Adhesive - Adhesive meeting the requirements of ASTM D-2559.



Quality Assurance.

The technology and workmanship that goes into every NASCOR joist is backed by strict, independent tests. Our manufacturing quality control and product inspection procedures are considered a model for the manufactured wooden-I industry. As a result, we are able to provide the customer with a quality product that meets or exceeds all building standards.

Floor Performance.

Nascor recommends using a live load deflection limit of L/480, instead of the code minimum L/360.

Designing a floor system to code maximum spans assures the floor system safely supports the imposed loads. Ultimately the floor system must perform to a level that satisfies the occupants. Performance of the floor system is a matter of opinion. What may be acceptable to one may not be acceptable to another.

Many factors affect the performance of a floor system. Some of them are:

- the joist depth
- gluing and nailing the decking
- on center spacing of the joist system
- continuous or simple span
- decking and flooring material
- proper installation
- lateral resistance of the bottom flange (bracing, blocking or direct applied ceilings)

Recommended Nascor Spans.

JOIST TYPE	L/480 psf Live Load Deflection			
	12" o/c	16" o/c	19.2" o/c	24" o/c
NJ10	16'-10"	15'-3"	14'-4"	13'-3"
NJ12	20'-2"	18'-4"	17'-2"	15'-7"

Code Maximum Nascor Spans.

JOIST TYPE	L/360 psf Live Load Deflection			
	12" o/c	16" o/c	19.2" o/c	24" o/c
NJ10	18'-0"	16'-5"	15'-6"	14'-1"
NJ12	21'7"	19'-1"	17'-5"	15'-7"

Notes:
Spans are based on a design Dead Load of 10 psf and Live Load of 40 psf.
Deflection is limited to Live Load (L)/360 or (L)/480 & Total Load (L)/240.
A minimum of $1^1/_2$" bearing length is required.
Spans are based on working stress design (WSD).
Spans are based on simple span conditions using a single layer of 3/4" 48/24 span rated sheathing and reflect an increase for composite action.
A 7% increase for repetitive members was included in the span calculations.
Decrease span by 12" if the sheathing is nailed only.
For continuous span applications, please consult Nasworks software.

Physical Properties for NJ Series Joists				
JOIST TYPE	ALLOWABLE MOMENT (lbs-ft)	ALLOWABLE SHEAR (lbs)	DEFLECTION COEFFICIENT "EI" (lb-in^{2}x10^6)	JOIST WEIGHT (lbs/ft)
NJ10	2320	970	136	2.2
NJ12	2850	1070	243	2.4

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NASCOR

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