JBS2000®

LOAD SHARING CONNECTORS™

SPAN TABLES

Approved for Use in

(DC, MD, PA, VA, WV)

CHANGING THE WAY AMERICA BUILDS FLOORS

Southern-Yellow-Pine

IBS 2000® Vibration Controlled Span Tables

U.S. DIMENSIONAL LUMBER

LIMIT STATE DESIGN - FULL COMPOSITE ACTION

(Live Load = 40 PSF Dead Load = 15 PSF)

SYP - N2	Rows of	5/8" DFPW SUB-FLOOR			
Joist	IBS 2000®	12	16	19.2	24
2" x 8"	ONE ROW	14' - 9"	12' - 11"	11' - 11"	10' - 10"
	TWIN ROWS	14' - 10"	13' - 0"	11' - 11"	10' - 10"
2" x 10"	ONE ROW	17' - 8"	16' - 7"	15' - 10"	14' - 9"
	TWIN ROWS	18' - 6"	17' - 0"	16' - 1"	15' - 0"
2" x 12"	ONE ROW	20' - 9"	19' - 4"	18' - 2"	16' - 10"
	TWIN ROWS	21' - 9"	20' - 1"	19' - 0"	17' - 9"

SYP - N2	Rows of	3/4" DFPW SUB-FLOOR			
Joist	IBS 2000®	12	16	19.2	24
2" x 8"	ONE ROW	15' - 4"	13' - 5"	12' - 4"	11' - 3"
	TWIN ROWS	15' - 5"	13' - 6"	12' - 4"	11' - 3"
2" x 10"	ONE ROW	18' - 5"	17' - 3"	16' - 5"	15' - 4"
	TWIN ROWS	19' - 3"	17' - 9"	16' - 9"	15' - 7"
2" x 12"	ONE ROW	21' - 8"	20' - 3"	19' - 1"	17' - 5"
	TWIN ROWS	22' - 8"	20' - 11"	19' - 9"	18' - 5"

NOTES:

One Row Vibration controlled spans for floors with one row of the IBS 2000®
All spans Assume the use of Strapping/Drywall Equivalent
One row of stiffeners is installed at the central line of the span

Twin Rows Vibration controlled spans for floors with twin rows of the IBS 2000®
All spans Assume the use of Strapping/Drywall Equivalent
Twin rows of stiffeners are installed 12" either side of the floor central line

Sub-floor Spans are shown for Douglas Fir Sub-floor. For OSB Sub-floor reduce span for 2", for softwood plywood reduce span for 4"

40 + 15

NAILED & GLUED

SYP #2

Spruce-Pine-Fir

IBS 2000® Vibration Controlled Span Tables

CANADIAN DIMENSIONAL LUMBER

LIMIT STATE DESIGN - FULL COMPOSITE ACTION

(Live Load = 40 PSF Dead Load = 15 PSF)

SPF - N2 Joist	Rows of IBS 2000®	5/8" DFPW SUB-FLOOR 12	16	19.2	24
2" x 8"	ONE ROW	14' - 7"	13' - 6"	12' - 10"	N/A
	TWIN ROWS	14' - 8"	13' - 7"	12' - 11"	N/A
2" x 10"	ONE ROW	17' - 5"	16' - 4"	15' - 8"	N/A
	TWIN ROWS	18' - 1"	16' - 8"	15' - 10"	N/A
2" x 12"	ONE ROW	20' - 4"	18' - 11"	17' - 11"	N/A
	TWIN ROWS	21' - 4"	19' - 8"	18' - 9"	N/A

SPF - N2 Joist	Rows of IBS 2000®	3/4" DFPW SUB-FLOOR 12	16	19.2	24
2" x 8"	ONE ROW	15' - 4"	14' - 2"	13' - 6"	12' - 8"
	TWIN ROWS	15' - 5"	14' - 3"	13' - 7"	12' - 9"
2" x 10"	ONE ROW	18' - 2"	17' - 1"	16' - 4"	15' - 3"
	TWIN ROWS	18' - 11"	17' - 6"	16' - 8"	15' - 7"
2" x 12"	ONE ROW	21' - 4"	19' - 11"	18' - 10"	17' - 4"
	TWIN ROWS	22' - 3"	20' - 7"	19' - 7"	18' - 4"

NOTES:

One Row Vibration controlled spans for floors with one row of the IBS 2000®
All spans Assume the use of Strapping/Drywall Equivalent
One row of stiffeners is installed at the central line of the span

Twin Rows Vibration controlled spans for floors with twin rows of the IBS 2000®
All spans Assume the use of Strapping/Drywall Equivalent
Twin rows of stiffeners are installed 12" either side of the floor central line

Sub-floor Spans are shown for Douglas Fir Sub-floor. For OSB Sub-floor reduce span for 2", for softwood plywood reduce span for 4"

40 + 15

NAILED & GLUED

SPF #2

Hemlock-Fir

IBS 2000® Vibration Controlled Span Tables

CANADIAN DIMENSIONAL LUMBER

LIMIT STATE DESIGN - FULL COMPOSITE ACTION

(Live Load = 40 PSF Dead Load = 15 PSF)

HF - N2 JOIST:	Rows of IBS 2000®	5/8" DFPW SUB-FLOOR 12	16	19.2	24
2" x 8"	ONE ROW	15' - 1"	14' - 0"	13' - 3"	N/A
	TWIN ROWS	15' - 2"	14' - 1"	13' - 4"	N/A
2" x 10"	ONE ROW	17' - 11"	16' - 10"	16' - 1"	N/A
	TWIN ROWS	18' - 11"	17' - 5"	16' - 7"	N/A
2" x 12"	ONE ROW	21' - 3"	19' - 9"	18' - 8"	N/A
	TWIN ROWS	22' - 5"	20' - 9"	19' - 8"	N/A

HF - N2 JOIST:	Rows of IBS 2000®	3/4" DFPW SUB-FLOOR 12	16	19.2	24
2" x 8"	ONE ROW	15' - 10"	14' - 8"	14' - 0"	13' - 0"
	TWIN ROWS	15' - 11"	14' - 9"	14' - 1"	13' - 1"
2" x 10"	ONE ROW	18' - 10"	17' - 7"	16' - 10"	15' - 9"
	TWIN ROWS	19' - 9"	18' - 3"	17' - 5"	16' - 4"
2" x 12"	ONE ROW	22' - 3"	20' - 9"	19' - 8"	17' - 11"
	TWIN ROWS	23' - 5"	21' - 8"	20' - 6"	18' - 7"

NOTES:

One Row Vibration controlled spans for floors with one row of the IBS 2000®
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Twin Rows Vibration controlled spans for floors with twin rows of the IBS 2000®
All spans Assume the use of Strapping/Drywall Equivalent
Twin rows of stiffeners are installed 12" either side of the floor central line

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40 + 15

NAILED & GLUED

HF #2

Douglas Fir

IBS 2000® Vibration Controlled Span Tables

CANADIAN DIMENSIONAL LUMBER

LIMIT STATE DESIGN - FULL COMPOSITE ACTION

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DF - N2	Rows of	5/8" DFPW SUB-FLOOR			
JOIST:	IBS 2000®	12	16	19.2	24
2" x 8"	ONE ROW	15' - 1"	13' - 11"	13' - 3"	N/A
	TWIN ROWS	15' - 2"	14' - 0"	13' - 4"	N/A
2" x 10"	ONE ROW	17' - 10"	16' - 6"	15' - 3"	N/A
	TWIN ROWS	18' - 10"	16' - 7"	15' - 4"	N/A
2" x 12"	ONE ROW	21' - 2"	19' - 7"	18' - 2"	N/A
	TWIN ROWS	22' - 4"	19' - 8"	18' - 3"	N/A

DF - N2	Rows of	3/4" DFPW SUB-FLOOR			
JOIST:	IBS 2000®	12	16	19.2	24
2" x 8"	ONE ROW	15' - 10"	14' - 8"	13' - 11"	13' - 1"
	TWIN ROWS	15' - 11"	14' - 9"	14' - 0"	13' - 2"
2" x 10"	ONE ROW	18' - 9"	17' - 2"	15' - 11"	14' - 5"
	TWIN ROWS	19' - 7"	17' - 3"	16' - 0"	14' - 6"
2" x 12"	ONE ROW	22' - 2"	20' - 4"	18' - 10"	17' - 2"
	TWIN ROWS	23' - 2"	20' - 5"	18' - 11"	17' - 5"

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Twin rows of stiffeners are installed 12" either side of the floor central line

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40 + 15

NAILED & GLUED

DF #2

Advantages of Load Sharing Design

Save Money on Your Floor Systems

Become more **cost competitive** by using the benefits of IBS 2000® load sharing connectors to **save money** on your floor systems.

Here's How

Start by identifying the longest span rooms in your building project. With the aid of the IBS 2000® vibration controlled span tables, minimize the joist depth or optimize the joist spacing in these long span areas. You can then use the selected joist depth at the optimum spacing throughout the floor plan.

Next, check for any beams that are designed into the floor. Using IBS 2000® span tables, try spanning the space without the beam. This will save on forming, footing and post costs. Alternately, try turning the joist direction to parallel the former beam direction if permitted by the supporting structure.

Remember, only use IBS 2000® Connectors in areas where it is needed

The cost of the IBS 2000® connectors in the long span areas will typically be more than offset by the savings in floor joist materials. Also consider the savings in sidings, stair headers, hangers and rim boards when you are able to lower the profile of your building.

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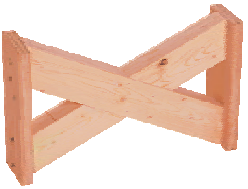
Finally, specify IBS 2000® connectors in areas with special service conditions such as floors carrying ceramic tile or stone toppings and kitchens with center islands. Special consideration should also be given to installing IBS 2000® in dining areas to minimize the chances of having rattling china, a common complaint with home owners.

Less Bounce and Vibration with IBS 2000® Vibration Controlled Design

Vibration controlled design is part of the IBS 2000® load sharing design technology. This approach to floor system design minimizes vibration by limiting floor system deflection caused by impact point loads such as foot traffic. Floors designed to this criteria meet the performance expectations of home owners better than floors built to uniform load criteria. The structural integrity of floors built with IBS 2000® connectors delivers vibration controlled performance at spans significantly longer than floors designed without the benefits of the IBS 2000® connectors.

For Performance Problems in Existing Floors

Ask your dealer for information on IBS 2000® Retrofit Connectors to provide a cost effective solution to your floor performance problems.



IBS 2000® Load Sharing Connectors are made for all Conventional Lumber and I-joist depths and spacings.

Luxor Wood Products
Eastern Area Office

Phone: (301) 845-7133
Fax: (301) 845-7133

Website address: www.luxorcorp.com

Take the step into the future on the load sharing demonstration box at your IBS 2000® Retailer.

Dealer:

BOCA Report	# 724	Canadian Patent	# 1,325,095
US Patent	# 4,947,612	SBCCI Report	# 9734
	# 5,301,486	ICBO Report	# ER-5323

Luxor Industrial Corporation

Leaders in Building Systems Innovation