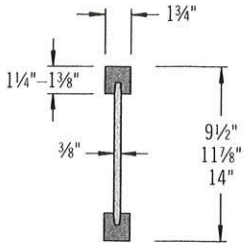
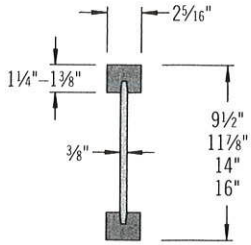


FLOOR SPAN TABLES

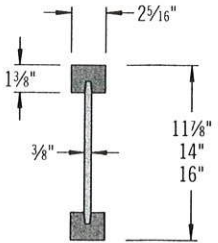
Not all products are available in all markets. Contact your iLevel representative for information.



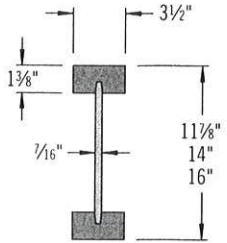
TJI® 110 Joists



TJI® 230 Joists



TJI® 360 Joists



TJI® 560 Joists

L/480 Live Load Deflection

Depth	TJI®	40 PSF Live Load / 10 PSF Dead Load				40 PSF Live Load / 20 PSF Dead Load			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
9 1/2"	110	16'-5"	15'-0"	14'-2"	13'-2"	16'-5"	15'-0"	13'-11"	12'-5"
	230	17'-8"	16'-2"	15'-3"	14'-2"	17'-8"	16'-2"	15'-3"	14'-2"
11 1/8"	110	19'-6"	17'-10"	16'-10"	15'-5" ⁽¹⁾	19'-6"	17'-3"	15'-8"	14'-0" ⁽¹⁾
	230	21'-0"	19'-2"	18'-1"	16'-10"	21'-0"	19'-2"	18'-1"	16'-3" ⁽¹⁾
	360	22'-11"	20'-11"	19'-8"	18'-4"	22'-11"	20'-11"	19'-8"	17'-10" ⁽¹⁾
	560	26'-1"	23'-8"	22'-4"	20'-9"	26'-1"	23'-8"	22'-4"	20'-9" ⁽¹⁾
14"	110	22'-2"	20'-3"	18'-9"	16'-9" ⁽¹⁾	21'-8"	18'-9"	17'-1" ⁽¹⁾	14'-7" ⁽¹⁾
	230	23'-10"	21'-9"	20'-6"	19'-1"	23'-10"	21'-9"	19'-9"	17'-1" ⁽¹⁾
	360	26'-0"	23'-8"	22'-4"	20'-9" ⁽¹⁾	26'-0"	23'-8"	22'-4" ⁽¹⁾	17'-10" ⁽¹⁾
	560	29'-6"	26'-10"	25'-4"	23'-6"	29'-6"	26'-10"	25'-4" ⁽¹⁾	20'-11" ⁽¹⁾
16"	230	26'-5"	24'-1"	22'-9"	20'-7" ⁽¹⁾	26'-5"	23'-2"	21'-2" ⁽¹⁾	17'-1" ⁽¹⁾
	360	28'-9"	26'-3"	24'-8" ⁽¹⁾	21'-5" ⁽¹⁾	28'-9"	26'-3" ⁽¹⁾	22'-4" ⁽¹⁾	17'-10" ⁽¹⁾
	560	32'-8"	29'-8"	28'-0"	25'-2" ⁽¹⁾	32'-8"	29'-8"	26'-3" ⁽¹⁾	20'-11" ⁽¹⁾

* RECOMMENDED

L/360 Live Load Deflection (Minimum Criteria per Code)

Depth	TJI®	40 PSF Live Load / 10 PSF Dead Load				40 PSF Live Load / 20 PSF Dead Load			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
9 1/2"	110	18'-2"	16'-7"	15'-3"	13'-8"	17'-8"	15'-3"	13'-11"	12'-5"
	230	19'-7"	17'-11"	16'-11"	15'-9"	19'-7"	17'-8"	16'-1"	14'-5"
11 1/8"	110	21'-7"	18'-11"	17'-3"	15'-5" ⁽¹⁾	19'-11"	17'-3"	15'-8"	14'-0" ⁽¹⁾
	230	23'-3"	21'-3"	19'-11"	17'-9"	23'-0"	19'-11"	18'-2"	16'-3" ⁽¹⁾
	360	25'-4"	23'-2"	21'-10"	20'-4" ⁽¹⁾	25'-4"	23'-2"	21'-10"⁽¹⁾	17'-10" ⁽¹⁾
	560	28'-10"	26'-3"	24'-9"	23'-0"	28'-10"	26'-3"	24'-9"	20'-11" ⁽¹⁾
14"	110	23'-9"	20'-6"	18'-9"	16'-9" ⁽¹⁾	21'-8"	18'-9"	17'-1" ⁽¹⁾	14'-7" ⁽¹⁾
	230	26'-4"	23'-9"	21'-8"	19'-4" ⁽¹⁾	25'-0"	21'-8"	19'-9"	17'-1" ⁽¹⁾
	360	28'-9"	26'-3"	24'-9" ⁽¹⁾	21'-5" ⁽¹⁾	28'-9"	26'-3"⁽¹⁾	22'-4" ⁽¹⁾	17'-10" ⁽¹⁾
	560	32'-8"	29'-9"	28'-0"	25'-2" ⁽¹⁾	32'-8"	29'-9"	26'-3"⁽¹⁾	20'-11" ⁽¹⁾
16"	230	29'-2"	25'-5"	23'-2"	20'-7" ⁽¹⁾	26'-9"	23'-2"	21'-2" ⁽¹⁾	17'-1" ⁽¹⁾
	360	31'-10"	29'-0"	26'-10" ⁽¹⁾	21'-5" ⁽¹⁾	31'-10"	26'-10"⁽¹⁾	22'-4" ⁽¹⁾	17'-10" ⁽¹⁾
	560	36'-1"	32'-11"	31'-0" ⁽¹⁾	25'-2" ⁽¹⁾	36'-1"	31'-6"⁽¹⁾	26'-3" ⁽¹⁾	20'-11" ⁽¹⁾

* MAX ALLOWABLE

• Long term deflection under dead load, which includes the effect of creep, has not been considered. **Bold italic** spans reflect initial dead load deflection exceeding 0.33".

(1) Web stiffeners are required at intermediate supports of continuous-span joists when the intermediate bearing length is less than 5 1/4" and the span on either side of the intermediate bearing is greater than the following spans:

TJI®	40 PSF Live Load / 10 PSF Dead Load				40 PSF Live Load / 20 PSF Dead Load			
	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
110	N.A.	N.A.	N.A.	15'-4"	N.A.	N.A.	16'-0"	12'-9"
230	N.A.	N.A.	N.A.	19'-2"	N.A.	N.A.	19'-11"	15'-11"
360	N.A.	N.A.	24'-5"	19'-6"	N.A.	24'-5"	20'-4"	16'-3"
560	N.A.	N.A.	29'-10"	23'-10"	N.A.	29'-10"	24'-10"	19'-10"

How to Use These Tables

- Determine the appropriate live load deflection criteria.
- Identify the live and dead load condition.
- Select on-center spacing.
- Scan down the column until you meet or exceed the span of your application.
- Select TJI® joist and depth.

Live load deflection is not the only factor that affects how a floor will perform. To more accurately predict floor performance, use our TJ-Pro™ Ratings.

General Notes

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous span.
 - Clear distance between supports (1 3/4" minimum end bearing).
- Assumed composite action with a single layer of 24" on-center span-rated, glue-nailed floor panels for deflection only. **Spans shall be reduced 6" when floor panels are nailed only.**
- Spans generated from iLevel™ software may exceed the spans shown in these tables because software reflects actual design conditions.
- For loading conditions not shown, refer to software or to the load table on page 5.

FLOOR JOISTS - 30 PSF LIVE LOAD - 10 PSF DEAD LOAD (BEDROOMS)

JOIST		D. FIR-LARCH		HEM.-FIR		SPR. PINE FIR south		S.P.F.	SOUTHERN PINE		WESTERN WOODS	
SIZE	IN. O.C.	NO. 1	NO. 2	NO. 1	NO. 2	NO.1	NO. 2	NO 1 & 2	NO.1	NO. 2	NO. 1	NO. 2
2 x 6	12	12-0	11-10	11-7	11-0	10-9	10-5	11-3	12-0	11-10	10-5	10-1
	16	10-11	10-9	10-6	10-0	9-9	9-6	10-3	10-11	10-9	9-6	9-2
	24	9-7	9-1	9-2	8-9	8-6	8-3	8-11	9-7	9-4	7-10	7-10
2 x 8	12	15-10	15-7	15-3	14-6	14-2	13-9	14-11	15-10	15-7	13-9	13-4
	16	14-5	14-1	13-10	13-2	12-10	12-6	13-6	14-5	14-2	12-2	12-1
	24	12-4	11-6	12-0	11-4	11-8	10-8	11-6	12-7	12-4	9-11	9-11
2 x 10	12	20-3	19-10	19-5	18-6	18-0	17-6	19-0	20-3	19-10	17-1	17-0
	16	18-5	17-2	17-8	16-10	16-5	15-11	17-2	18-5	18-0	14-10	14-10
	24	15-0	14-1	14-8	13-10	13-10	13-0	14-1	16-1	14-8	12-1	12-1
2 x 12	12	24-8	23-0	23-7	22-6	21-11	21-4	23-0	24-8	24-2	19-10	19-10
	16	21-4	19-11	20-9	19-8	19-8	18-6	19-11	22-5	21-1	17-2	17-2
	24	17-5	16-3	17-0	16-1	16-1	15-1	16-3	19-6	17-2	14-0	14-0

FLOOR JOISTS - 40 PSF LIVE LOAD - 10 PSF DEAD LOAD

JOIST		D. FIR-LARCH		HEM.-FIR		SPR. PINE FIR south		S.P.F.	SOUTHERN PINE		WESTERN WOODS	
SIZE	IN. O.C.	NO. 1	NO. 2	NO. 1	NO. 2	NO.1	NO. 2	NO 1 & 2	NO.1	NO. 2	NO. 1	NO. 2
2 x 6	12	10-11	10-9	10-6	10-0	9-9	9-6	10-3	10-11	10-9	9-6	9-2
	16	9-11	9-9	9-6	9-1	8-10	8-7	9-4	9-11	9-9	8-7	8-4
	24	8-8	8-1	8-3	7-11	7-8	7-6	8-1	8-8	8-6	7-0	7-0
2 x 8	12	14-5	14-2	13-10	13-2	12-10	12-6	13-6	14-5	14-2	12-6	12-1
	16	13-1	12-7	12-7	12-0	11-8	11-4	12-3	13-1	12-10	10-10	10-10
	24	11-0	10-3	10-9	10-2	10-2	9-6	10-3	11-5	11-0	8-10	8-10
2 x 10	12	18-5	17-9	17-8	16-10	16-5	15-11	17-3	18-5	18-0	15-4	15-4
	16	16-5	15-5	16-0	15-2	14-11	14-3	15-5	16-9	16-1	13-8	13-3
	24	13-5	12-7	13-1	12-5	12-5	11-8	12-7	14-7	13-2	10-10	10-10
2 x 12	12	22-0	20-7	21-6	20-4	19-11	19-1	20-7	22-5	21-9	17-9	17-9
	16	19-1	17-10	18-7	17-7	17-7	16-6	17-10	20-4	18-10	15-5	15-5
	24	15-7	14-7	15-2	14-4	14-4	13-6	14-7	17-5	15-4	12-7	12-7

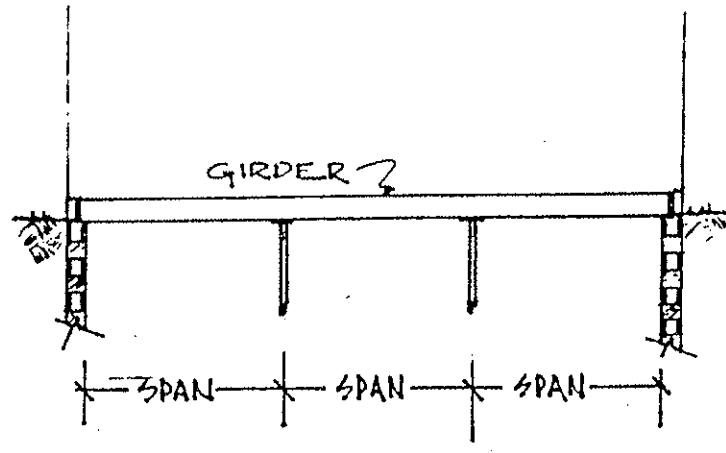
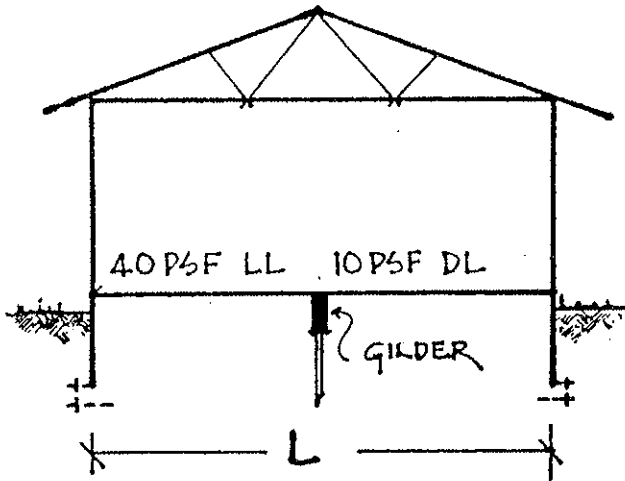
GIRDER SPANS SUPPORTING: ONE FLOOR

DATE OF ISSUE: 7-0-76

SPECIE & GRADE:

SPF-SOUTH #1
 SPF-CANADA #1 & 2
 D.FIR-SOUTH #1
 HEM-FIR #2
 D.FIR-LARCH #2
 SOUTHERN PINE #2

ANY OF THE ABOVE MAY BE USED WITH THIS SPAN CHART

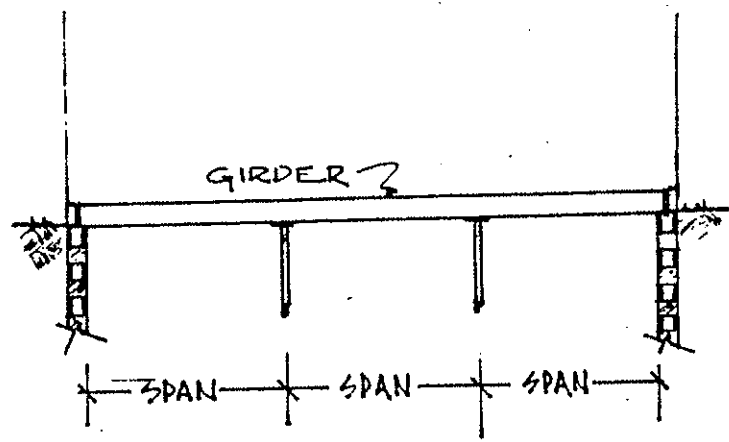
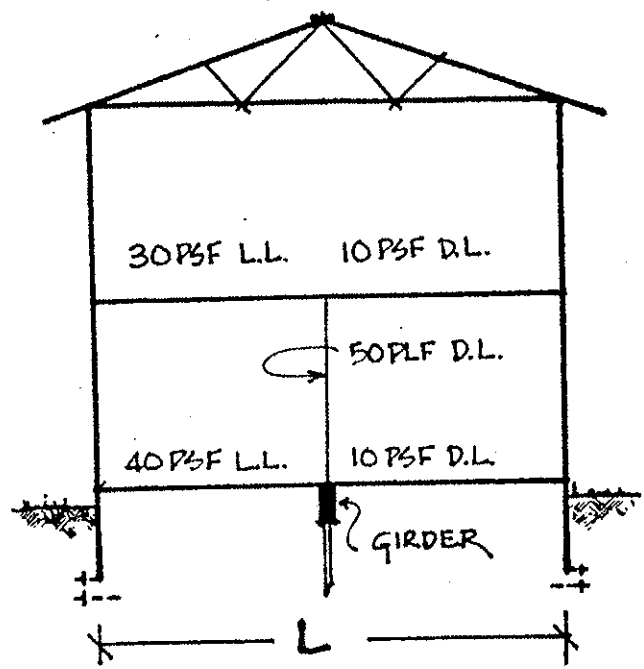


MEMBER SIZE	373	413	453	493	533	573	613	LL		
	93	103	113	123	133	143	153	DL		
	L=20	L=22	L=24	L=26	L=28	L=30	L=32	F _b	E	F _v
3-2x8	8'-1"	7'-9"	7'-4"	7'-0"	6'-9"	6'-6"	6'-4"	1020	1.2x10 ⁶	80
4-2x8	9'-4"	8'-11"	8'-6"	8'-2"	7'-10"	7'-6"	7'-4"	1020	"	"
3-2x10	9'-11"	9'-5"	9'-0"	8'-8"	8'-4"	8'-0"	7'-9"	935	"	"
4-2x10	11'-5"	10'-11"	10'-5"	9'-11"	9'-7"	9'-3"	8'-11"	935	"	"
3-2x12	11'-6"	11'-0"	10'-6"	10'-0"	9'-8"	9'-4"	9'-0"	850	"	"
4-2x12	13'-4"	12'-8"	12'-1"	11'-7"	11'-2"	10'-9"	10'-4"	850	"	"

LINEAR INTERPOLATION FOR L > 20 & < 32 IS PERMITTED

REPETITIVE VALUES BUILT IN TABLES.

SPECIE & GRADE:



- SPF - SOUTH #1
- SPF - CANADA #1 & 1/2
- D. FIR - SOUTH #1
- HEM - FIR #2
- D. FIR - LARCH #2
- SOUTHERN PINE #2

ANY OF THE ABOVE MAY BE USED WITH THIS SPAN CHART.

MEMBER SIZE	700	770	840	910	980	1050	1120	L.L.		
	250	270	290	310	330	350	370	D.L.		
	L=20	L=22	L=24	L=26	L=28	L=30	L=32	F _b	E	F _v
3 - 2x8	5'-8"	5'-5"	5'-3"	5'-0"	4'-10"	4'-8"	4'-6"	1020	1.2x10 ⁶	80
4 - 2x8	6'-7"	6'-3"	6'-0"	5'-9"	5'-7"	5'-5"	5'-3"	1020	"	"
3 - 2x10	6'-11"	6'-8"	6'-5"	6'-2"	5'-11"	5'-9"	5'-7"	935	"	"
4 - 2x10	8'-0"	7'-8"	7'-4"	7'-1"	6'-10"	6'-7"	6'-5"	935	"	"
3 - 2x12	8'-1"	7'-9"	7'-5"	7'-2"	6'-11"	6'-8"	6'-6"	850	"	"
4 - 2x12	9'-4"	8'-11"	8'-7"	8'-3"	7'-11"	7'-8"	7'-5"	850	"	"

LINEAR INTERPOLATION FOR L > 20 & < 32 IS PERMITTED

REPETITIVE VALUES BUILT IN TABLES.