

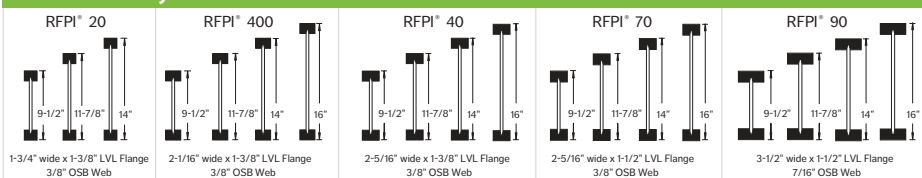


RFPI®-JOIST SPAN TABLES – LIMIT STATES DESIGN (LSD)

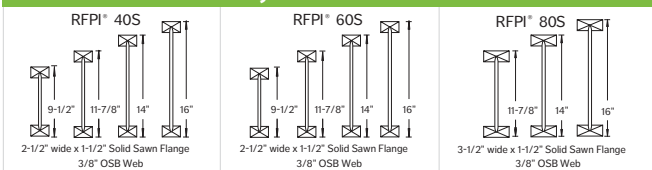
- Meets NBCC 2020 & CSA 086-19
- For RFPI® Joists Series 20, 40S, 400, 40, 60S, 70, 80S, 90
- Vibration-Controlled, Standard Term
- 23/32", 5/8", and 7/8" Subfloors
- Simple and Continuous Spans
- Directly Applied Ceiling and No Directly Applied Ceiling
- 12", 16", 19.2", and 24" On-center Spacings
- 40/10, 40/15, 40/30, and 40/35 Loading

RFPI®-Joist Design Properties

LVL FLANGE I-JOIST DIMENSIONS



SOLID SAWN FLANGE I-JOIST DIMENSIONS



FACTORED RESISTANCE VALUES ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾ - STANDARD TERM

Joist Depth	Joist Series	$EI^{(6)} \times 10^6$ lb-in ²	$M_r^{(7)}$ lb-ft	$V_r^{(8)}$ lbs	$VLC^{(9)}$ lbs/ft	$K^{(10)} \times 10^6$ lb	Weight plf
9-1/2"	RFPI 20	165	4,690	1,926	2,900	4.94	2.06
	RFPI 40S	193	4,426	1,768	2,900	4.94	2.56
	RFPI 400	193	5,563	1,926	2,900	4.94	2.29
	RFPI 40	215	6,254	2,099	2,900	4.94	2.56
	RFPI 60S	231	5,644	1,768	2,900	4.94	2.56
	RFPI 70	266	8,532	2,099	2,900	4.94	2.57
	RFPI 90	398	13,023	2,983	2,900	4.94	3.70
11-7/8"	RFPI 20	283	6,054	2,241	2,900	6.18	2.37
	RFPI 40S	330	5,686	2,241	2,900	6.18	2.83
	RFPI 400	330	7,177	2,336	2,900	6.18	2.60
	RFPI 40	366	8,075	2,447	2,900	6.18	2.81
	RFPI 60S	396	7,311	2,241	2,900	6.18	2.83
	RFPI 70	455	11,052	2,447	2,900	6.18	2.95
	RFPI 80S	547	11,593	2,510	2,900	6.18	3.79
14"	RFPI 90	676	16,873	3,236	2,900	6.18	4.17
	RFPI 20	420	7,202	2,541	2,900	7.28	2.60
	RFPI 40S	482	7,102	2,699	2,900	7.28	3.07
	RFPI 400	486	8,549	2,699	2,900	7.28	2.98
	RFPI 40	540	9,622	2,794	2,900	7.28	3.13
	RFPI 60S	584	8,803	2,699	2,900	7.28	3.07
	RFPI 70	672	13,181	2,794	2,900	7.28	3.21
16"	RFPI 80S	802	13,954	2,896	2,900	7.28	4.03
	RFPI 90	992	20,125	3,465	2,900	7.28	4.51
	RFPI 40S	657	8,233	3,109	2,900	8.32	3.31
	RFPI 400	665	9,780	3,109	2,900	8.32	3.19
	RFPI 40	737	11,002	3,109	2,900	8.32	3.34
	RFPI 60S	799	10,207	3,109	2,900	8.32	3.31
	RFPI 70	918	15,102	3,109	2,900	8.32	3.48
	RFPI 80S	1,092	16,183	3,267	2,900	8.32	4.26
	RFPI 90	1,350	23,060	3,678	2,900	8.32	4.80

- Factored resistances are based on Limit States Design in accordance with CSA O86-14.
- All resistance values include the resistance factor and reliability normalization factor (K_r).
- Design values shall not be increased for load-sharing.
- Duration of load, service and treatment factors = 1.0.
- Full lateral support of compression flange is required.
- Bending stiffness of the I-joist.
- Factored Moment Resistance of a single I-joist.
- Factored Shear Resistance of the I-joist.

- Vertical Load Capacity when continuously supported.
- Coefficient of shear deflection (K), used to calculate deflections for I-joist application. Equations 1 and 2 below are provided for uniform load and center point load conditions for simple spans.

Uniform Load: Center-Point Load:

$$[1] d = \frac{5v_u^4}{384EI} + \frac{v_u^2}{K} \quad [2] d = \frac{P^3}{48EI} + \frac{2P}{K}$$

where:

d = calculated deflection (in) P = concentrated load (lb)
 v_u = uniform load (lb/in) EI = bending stiffness of the I-joist (lb-in²)
 s = design span (in) K = coefficient of shear deflection (lb)

RFPI®-Joist Factored Reaction Information

TABLE 1: FACTORED REACTION CAPACITIES WITH OR WITHOUT WEB STIFFENERS (W.S.)⁽¹⁾

Joist Depth	Joist Series	End Reaction (lbs)				Intermediate Reaction (lbs)				Web Stiffener Nails ⁽²⁾
		1-3/4" Bearing		4" Bearing		3-1/2" Bearing		5-1/4" Bearing		
		No W.S.	With W.S.	No W.S.	With W.S.	No W.S.	With W.S.	No W.S.	With W.S.	
9 -1/2"	RFPI-20	1,436	1,815	1,926	1,926	2,802	2,960	3,157	3,630	4-8d
	RFPI-40S	1,705	1,768	1,768	1,768	3,409	3,536	3,536	3,536	4-8d
	RFPI-400	1,618	1,926	1,926	1,926	3,394	3,551	3,630	3,851	4-8d
	RFPI-40	1,705	1,926	2,099	2,099	3,551	3,946	4,025	4,183	4-8d
	RFPI-60S	1,705	1,768	1,768	1,768	3,409	3,536	3,536	3,536	4-8d
	RFPI-70	1,768	2,099	2,099	2,099	3,686	3,946	4,025	4,183	4-8d
	RFPI-90	2,099	2,502	2,683	2,983	4,767	5,438	5,438	5,485	4-10d
11-7/8"	RFPI-20	1,499	1,934	2,241	2,241	3,054	3,212	3,370	3,843	4-8d
	RFPI-40S	1,894	2,115	2,241	2,241	3,946	4,143	4,199	4,483	4-8d
	RFPI-400	1,657	1,997	2,336	2,336	3,551	3,709	3,709	4,183	4-8d
	RFPI-40	1,894	2,210	2,447	2,447	3,929	4,143	4,199	4,530	4-8d
	RFPI-60S	1,894	2,115	2,241	2,241	3,946	4,143	4,199	4,483	4-8d
	RFPI-70	1,894	2,320	2,447	2,447	3,946	4,143	4,199	4,530	4-8d
	RFPI-80S	2,020	2,510	2,447	2,510	4,435	5,019	4,893	5,019	4-10d
14"	RFPI-90	2,210	2,754	2,975	3,236	5,296	5,485	5,485	5,801	4-10d
	RFPI-20	1,499	2,036	2,447	2,541	3,054	3,212	3,370	3,843	4-8d
	RFPI-40S	1,894	2,415	2,447	2,699	3,946	4,325	4,349	4,814	4-8d
	RFPI-400	1,657	2,060	2,447	2,699	3,551	3,709	3,709	4,183	4-8d
	RFPI-40	1,894	2,462	2,447	2,794	3,946	4,325	4,349	4,838	4-8d
	RFPI-60S	1,894	2,415	2,447	2,699	3,946	4,325	4,349	4,814	4-8d
	RFPI-70	1,894	2,510	2,447	2,794	3,946	4,325	4,349	4,838	4-8d
16"	RFPI-80S	2,020	2,762	2,447	2,896	4,767	5,303	5,067	5,682	4-10d
	RFPI-90	2,210	2,975	2,975	3,465	5,296	5,524	5,524	6,077	4-10d
	RFPI-40S	1,894	2,699	2,447	3,109	3,946	4,498	4,498	5,130	4-8d
	RFPI-400	1,657	2,115	2,447	3,109	3,551	3,709	3,709	4,183	4-8d
	RFPI-40	1,894	2,699	2,447	3,109	3,946	4,498	4,498	5,130	4-8d
	RFPI-60S	1,894	2,699	2,447	3,109	3,946	4,498	4,498	5,130	4-8d
	RFPI-70	1,894	2,699	2,447	3,109	3,946	4,498	4,498	5,130	4-8d
16"	RFPI-80S	2,020	2,699	2,447	3,267	4,767	5,564	5,225	6,314	4-10d
	RFPI-90	2,210	3,196	2,447	3,678	5,296	5,564	5,564	6,353	4-10d

Notes:

1. The tabulated values are for the standard term of load duration ($K_D = 1.0$). All values are permitted to be adjusted for other load durations as permitted by the code provided that the adjusted values do not exceed the factored compressive resistance perpendicular to grain (Q_c) of the bearing plate supporting the I-joist in accordance with CSA O86. Interpolation between bearing lengths is permitted.
2. Number and size of nails required for web stiffeners. Refer to page 25 for web stiffener and nail installation requirements.

Web Stiffener Requirements

A web stiffener is a block of plywood, OSB, or even a 2x4 that is added to stiffen the I-joist's web, increase the bearing surface between the web and the flange, and provide additional support for a hanger or other connector. Web stiffeners are common with certain types of joist hanger installations, particularly in roof systems. They are typically placed at the end of the I-joist, between the flanges and against both sides of the web. When used at end bearings, web stiffeners should be installed tight against the bottom flange of the I-joist, but with a minimum 1/8" gap between the top of the stiffener and the bottom of the top flange. Web stiffeners must be made of Utility grade SPF (south) or better for lumber and/or Sheathing grade or better for wood structural panels.

When designed in accordance with the load/span conditions set forth in the tables in this guide, RFPI-Joists do not require web stiffeners, with the following exceptions:

- When sides of the hangers do not laterally brace the top flange of each I-joist.
- Birds mouth cuts for roof joists.
- When I-joists are designed to support concentrated factored loads greater than 2,370 lbs applied to the I-joist's top flange between supports. In these applications only, the gap between the web stiffener and the flange shall be at the bottom flange (See Figure B below).

The use of web stiffeners or bearing lengths that are longer than the minimum required may result in allowable spans that are longer than those shown in this guide. The most accurate method of determining if a joist is adequate and if web stiffeners are required is to use appropriate software (e.g. Simpson Strong-Tie® Component Solutions™) or engineering analysis for the actual conditions.

Web stiffeners may be cut in the field as required for the application.

FIGURE B
RFPI-JOIST WEB STIFFENER REQUIREMENTS

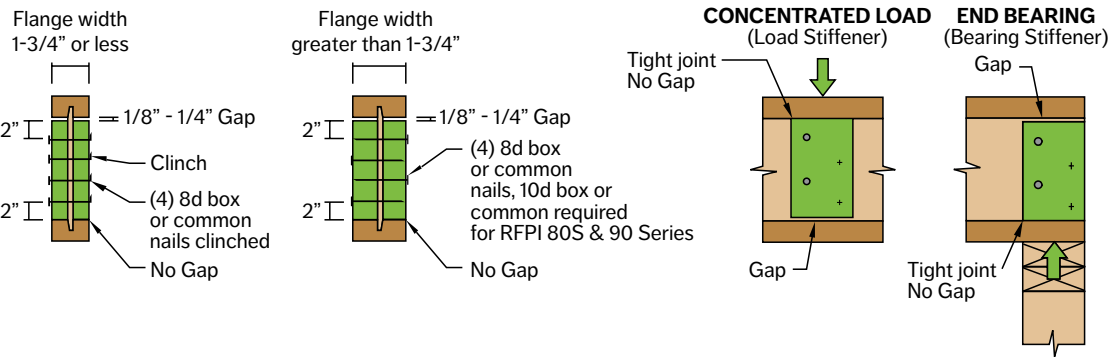


TABLE B: WEB STIFFENER SIZE REQUIRED	
RFPI®-Joist Flange Width	Web Stiffener Size Each Side of Web
1-3/4"	19/32" x 2-5/16" minimum width
2-1/16"	3/4" x 2-5/16" minimum width
2-5/16"	7/8" x 2-5/16" minimum width
2-1/2"	1" x 2-5/16" minimum width
3-1/2"	1-1/2" x 2-5/16" minimum width

Limit States Design (CANADA) - Floor Span Charts

23/32" [3/4"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM																	
Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/10 PSF Dead Load																	
9-1/2"	20	16'-5"	15'-6"	15'-0"	13'-11"	17'-0"	16'-1"	15'-6"	14'-11"	16'-0"	15'-1"	14'-6"	13'-11"	16'-6"	15'-7"	15'-0"	14'-5"
	40S	16'-10"	15'-11"	15'-4"	14'-8"	17'-5"	16'-6"	15'-10"	15'-3"	16'-5"	15'-6"	14'-11"	14'-4"	17'-0"	16'-0"	15'-5"	14'-10"
	400	16'-10"	15'-11"	15'-4"	14'-8"	17'-5"	16'-5"	15'-10"	15'-3"	16'-5"	15'-6"	14'-11"	14'-4"	17'-0"	16'-0"	15'-5"	14'-10"
	40	17'-1"	16'-2"	15'-7"	14'-11"	17'-9"	16'-9"	16'-1"	15'-6"	16'-8"	15'-9"	15'-2"	14'-7"	17'-4"	16'-3"	15'-8"	15'-1"
	60S	17'-4"	16'-4"	15'-9"	15'-1"	18'-0"	16'-11"	16'-4"	15'-8"	16'-11"	15'-11"	15'-4"	14'-9"	17'-6"	16'-6"	15'-11"	15'-3"
	70	17'-8"	16'-8"	16'-1"	15'-5"	18'-6"	17'-3"	16'-8"	16'-0"	17'-4"	16'-4"	15'-8"	15'-1"	18'-0"	16'-11"	16'-3"	15'-7"
11-7/8"	90	19'-2"	17'-9"	17'-1"	16'-4"	20'-2"	18'-7"	17'-9"	17'-0"	18'-9"	17'-5"	16'-9"	16'-1"	19'-8"	18'-2"	17'-5"	16'-8"
	20	18'-7"	17'-5"	16'-10"	16'-2"	19'-6"	18'-2"	17'-5"	16'-9**	17'-11"	16'-11"	16'-4"	15'-8"	18'-10"	17'-6"	16'-10"	16'-2"
	40S	19'-2"	17'-10"	17'-2"	16'-6"	20'-1"	18'-8"	17'-10"	17'-1"	18'-7"	17'-4"	16'-9"	16'-1"	19'-5"	18'-0"	17'-4"	16'-7"
	400	19'-2"	17'-10"	17'-2"	16'-6"	20'-1"	18'-8"	17'-10"	17'-1"	18'-6"	17'-4"	16'-8"	16'-0"	19'-5"	18'-0"	17'-4"	16'-7"
	40	19'-7"	18'-2"	17'-5"	16'-9"	20'-6"	19'-1"	18'-2"	17'-4"	18'-11"	17'-8"	17'-0"	16'-4"	19'-10"	18'-5"	17'-7"	16'-11"
	60S	19'-10"	18'-5"	17'-8"	16'-11"	20'-10"	19'-4"	18'-6"	17'-7"	19'-3"	17'-10"	17'-3"	16'-6"	20'-3"	18'-9"	17'-10"	17'-1"
14"	70	20'-5"	18'-11"	18'-1"	17'-4"	21'-5"	19'-11"	19'-0"	18'-0"	19'-10"	18'-5"	17'-7"	16'-11"	20'-10"	19'-3"	18'-5"	17'-6"
	80S	21'-3"	19'-8"	18'-9"	17'-9"	22'-4"	20'-8"	19'-8"	18'-8"	20'-8"	19'-2"	18'-3"	17'-5"	21'-9"	20'-1"	19'-1"	18'-1"
	90	22'-2"	20'-6"	19'-6"	18'-6"	23'-4"	21'-7"	20'-6"	19'-5"	21'-8"	20'-0"	19'-1"	18'-0"	22'-10"	21'-0"	20'-0"	18'-11"
	20	20'-9"	19'-3"	18'-5"	17'-5**	21'-9"	20'-3"	19'-4"	17'-5**	20'-0"	18'-6"	17'-9"	17'-0**	20'-11"	19'-5"	18'-6"	17'-5**
	40S	21'-3"	19'-9"	18'-11"	17'-11"	22'-4"	20'-9"	19'-10"	18'-10"	20'-7"	19'-1"	18'-2"	17'-5"	21'-7"	20'-0"	19'-1"	18'-2"
	400	21'-4"	19'-10"	18'-11"	18'-0"	22'-5"	20'-10"	19'-10"	18'-10"	20'-7"	19'-1"	18'-3"	17'-5"	21'-7"	20'-0"	19'-1"	18'-2"
16"	40	21'-9"	20'-3"	19'-3"	18'-4"	22'-10"	21'-3"	20'-3"	19'-3"	21'-1"	19'-6"	18'-7"	17'-9"	22'-1"	20'-6"	19'-6"	18'-6"
	60S	22'-1"	20'-6"	19'-7"	18'-7"	23'-3"	21'-7"	20'-7"	19'-6"	21'-5"	19'-10"	18'-11"	18'-0"	22'-6"	20'-10"	19'-10"	18'-10"
	70	22'-9"	21'-1"	20'-1"	19'-1"	23'-11"	22'-2"	21'-2"	20'-0"	22'-1"	20'-5"	19'-6"	18'-6"	23'-3"	21'-6"	20'-5"	19'-5"
	80S	23'-7"	21'-10"	20'-10"	19'-9"	24'-10"	23'-0"	21'-11"	20'-9"	23'-0"	21'-3"	20'-3"	19'-2"	24'-2"	22'-4"	21'-3"	20'-1"
	90	24'-8"	22'-10"	21'-9"	20'-7"	26'-0"	24'-0"	22'-10"	21'-7"	24'-2"	22'-3"	21'-2"	20'-0"	25'-5"	23'-5"	22'-3"	21'-0"
	40S	23'-2"	21'-7"	20'-7"	19'-7"	24'-4"	22'-8"	21'-8"	20'-7"	22'-5"	20'-9"	19'-10"	18'-10"	23'-6"	21'-10"	20'-9"	19'-9"
16"	400	23'-3"	21'-7"	20'-8"	19'-7**	24'-5"	22'-8"	21'-8"	20'-2**	22'-6"	20'-10"	19'-10"	18'-10"	23'-7"	21'-10"	20'-10"	19'-9**
	40	23'-9"	22'-0"	21'-0"	20'-0"	24'-11"	23'-2"	22'-1"	21'-0"	23'-0"	21'-3"	20'-3"	19'-3"	24'-1"	22'-4"	21'-3"	20'-2"
	60S	24'-1"	22'-5"	21'-4"	20'-3"	25'-4"	23'-6"	22'-5"	21'-4"	23'-5"	21'-8"	20'-8"	19'-7"	24'-7"	22'-9"	21'-8"	20'-6"
	70	24'-10"	23'-0"	21'-11"	20'-10"	26'-1"	24'-2"	23'-1"	21'-10**	24'-1"	22'-3"	21'-3"	20'-1"	25'-4"	23'-5"	22'-4"	21'-1"
	80S	25'-9"	23'-10"	22'-8"	21'-6"	27'-1"	25'-1"	23'-10"	22'-7"	25'-1"	23'-2"	22'-0"	20'-10"	26'-4"	24'-4"	23'-2"	21'-11"
	90	26'-11"	24'-11"	23'-8"	22'-5"	28'-4"	26'-2"	24'-11"	23'-7"	26'-4"	24'-3"	23'-1"	21'-9"	27'-8"	25'-6"	24'-3"	22'-11"

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
	40 PSF Live Load/10 PSF Dead Load				
9-1/2"	20				
	40S				
	400				
	40				
	60S				
	70				
11-7/8"	90				
	20				16'-6"
	40S				
	400				
	40				
	60S				
14"	70				
	80S				
	90				
	20				16'-6"
	40S				
	400				
16"	40				
	60S				
	70				
	80S				
	90				
	40S				
16"	400				19'-3"
	40				
	60S				
	70				21'-5"
	80S				
	90				

Limit States Design (CANADA) - Floor Span Charts

23/32" [3/4"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/15 PSF Dead Load																	
9-1/2"	20	16'-5"	15'-6"	15'-0"	13'-11"	17'-0"	16'-1"	15'-6"	14'-8"	16'-0"	15'-1"	14'-6"	13'-11"	16'-6"	15'-7"	15'-0"	14'-5"
	40S	16'-10"	15'-11"	15'-4"	14'-8"	17'-5"	16'-6"	15'-10"	14'-8"	16'-5"	15'-6"	14'-11"	14'-4"	17'-0"	16'-0"	15'-5"	14'-8"
	400	16'-10"	15'-11"	15'-4"	14'-8"	17'-5"	16'-5"	15'-10"	15'-3"	16'-5"	15'-6"	14'-11"	14'-4"	17'-0"	16'-0"	15'-5"	14'-10"
	40	17'-1"	16'-2"	15'-7"	14'-11"	17'-9"	16'-9"	16'-1"	15'-6"	16'-8"	15'-9"	15'-2"	14'-7"	17'-4"	16'-3"	15'-8"	15'-1"
	60S	17'-4"	16'-4"	15'-9"	15'-1"	18'-0"	16'-11"	16'-4"	15'-8"	16'-11"	15'-11"	15'-4"	14'-9"	17'-6"	16'-6"	15'-11"	15'-3"
	70	17'-8"	16'-8"	16'-1"	15'-5"	18'-6"	17'-3"	16'-8"	16'-0"	17'-4"	16'-4"	15'-8"	15'-1"	18'-0"	16'-11"	16'-3"	15'-7"
11-7/8"	90	19'-2"	17'-9"	17'-1"	16'-4"	20'-2"	18'-7"	17'-9"	17'-0"	18'-9"	17'-5"	16'-9"	16'-1"	19'-8"	18'-2"	17'-5"	16'-8"
	20	18'-7"	17'-5"	16'-10"	16'-0"	19'-6"	18'-2"	17'-5"	16'-0"	17'-11"	16'-11"	16'-4"	15'-8"	18'-10"	17'-6"	16'-10"	16'-0"
	40S	19'-2"	17'-10"	17'-2"	16'-6"	20'-1"	18'-8"	17'-10"	16'-8"	18'-7"	17'-4"	16'-9"	16'-1"	19'-5"	18'-0"	17'-4"	16'-7"
	400	19'-2"	17'-10"	17'-2"	16'-6"	20'-1"	18'-8"	17'-10"	17'-1"	18'-6"	17'-4"	16'-8"	16'-0"	19'-5"	18'-0"	17'-4"	16'-7"
	40	19'-7"	18'-2"	17'-5"	16'-9"	20'-6"	19'-1"	18'-2"	17'-4"	18'-11"	17'-8"	17'-0"	16'-4"	19'-10"	18'-5"	17'-7"	16'-11"
	60S	19'-10"	18'-5"	17'-8"	16'-11"	20'-10"	19'-4"	18'-6"	17'-7"	19'-3"	17'-10"	17'-3"	16'-6"	20'-3"	18'-9"	17'-10"	17'-1"
14"	70	20'-5"	18'-11"	18'-1"	17'-4"	21'-5"	19'-11"	19'-0"	18'-0"	19'-10"	18'-5"	17'-7"	16'-11"	20'-10"	19'-3"	18'-5"	17'-6"
	80S	21'-3"	19'-8"	18'-9"	17'-9"	22'-4"	20'-8"	19'-8"	18'-8"	20'-8"	19'-2"	18'-3"	17'-5"	21'-9"	20'-1"	19'-1"	18'-1"
	90	22'-2"	20'-6"	19'-6"	18'-6"	23'-4"	21'-7"	20'-6"	19'-5"	21'-8"	20'-0"	19'-1"	18'-0"	22'-10"	21'-0"	20'-0"	18'-11"
	20	20'-9"	19'-3"	18'-5"	16'-0"	21'-9"	20'-3"	19'-4"	16'-0"	20'-0"	18'-6"	17'-9"	16'-0"	20'-11"	19'-5"	18'-6"	16'-0"
	40S	21'-3"	19'-9"	18'-11"	17'-11"	22'-4"	20'-9"	19'-10"	18'-8"	20'-7"	19'-1"	18'-2"	17'-5"	21'-7"	20'-0"	19'-1"	18'-2"
	400	21'-4"	19'-10"	18'-11"	18'-0"	22'-5"	20'-10"	19'-10"	18'-6"	20'-7"	19'-1"	18'-3"	17'-5"	21'-7"	20'-0"	19'-1"	18'-2"
16"	40	21'-9"	20'-3"	19'-3"	18'-4"	22'-10"	21'-3"	20'-3"	19'-3"	21'-1"	19'-6"	18'-7"	17'-9"	22'-1"	20'-6"	19'-6"	18'-6"
	60S	22'-1"	20'-6"	19'-7"	18'-7"	23'-3"	21'-7"	20'-7"	19'-6"	21'-5"	19'-10"	18'-11"	18'-0"	22'-6"	20'-10"	19'-10"	18'-10"
	70	22'-9"	21'-1"	20'-1"	19'-1"	23'-11"	22'-2"	21'-2"	20'-0"	22'-1"	20'-5"	19'-6"	18'-6"	23'-3"	21'-6"	20'-5"	19'-5"
	80S	23'-7"	21'-10"	20'-10"	19'-9"	24'-10"	23'-0"	21'-11"	20'-9"	23'-0"	21'-3"	20'-3"	19'-2"	24'-2"	22'-4"	21'-3"	20'-1"
	90	24'-8"	22'-10"	21'-9"	20'-7"	26'-0"	24'-0"	22'-10"	21'-7"	24'-2"	22'-3"	21'-2"	20'-0"	25'-5"	23'-5"	22'-3"	21'-0"
	40S	23'-2"	21'-7"	20'-7"	19'-7"	24'-4"	22'-8"	21'-8"	20'-1"	22'-5"	20'-9"	19'-10"	18'-10"	23'-6"	21'-10"	20'-9"	19'-9"
16"	400	23'-3"	21'-7"	20'-8"	18'-6"	24'-5"	22'-8"	21'-8"	18'-6"	22'-6"	20'-10"	19'-10"	18'-6"	23'-7"	21'-10"	20'-10"	18'-6"
	40	23'-9"	22'-0"	21'-0"	20'-0"	24'-11"	23'-2"	22'-1"	21'-0"	23'-0"	21'-3"	20'-3"	19'-3"	24'-1"	22'-4"	21'-3"	20'-2"
	60S	24'-1"	22'-5"	21'-4"	20'-3"	25'-4"	23'-6"	22'-5"	21'-4"	23'-5"	21'-8"	20'-8"	19'-7"	24'-7"	22'-9"	21'-8"	20'-6"
	70	24'-10"	23'-0"	21'-11"	20'-10"	26'-1"	24'-2"	23'-1"	21'-10"	24'-1"	22'-3"	21'-3"	20'-1"	25'-4"	23'-5"	22'-4"	21'-1"
	80S	25'-9"	23'-10"	22'-8"	21'-6"	27'-1"	25'-1"	23'-10"	22'-7"	25'-1"	23'-2"	22'-0"	20'-10"	26'-4"	24'-4"	23'-2"	21'-11"
	90	26'-11"	24'-11"	23'-8"	22'-5"	28'-4"	26'-2"	24'-11"	23'-7"	26'-4"	24'-3"	23'-1"	21'-9"	27'-8"	25'-6"	24'-3"	22'-11"

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/15 PSF Dead Load					
9-1/2"	20				13'-11"
	40S				
	400				
	40				
	60S				
	70				
11-7/8"	90				
	20				15'-2"
	40S				
	400				
	40				
	60S				
14"	70				
	80S				
	90				
	20			19'-1"	15'-2"
	40S				
	400				17'-8"
16"	40				
	60S				
	70				19'-9"
	80S				
	90				
	40S				19'-9"
16"	400				17'-8"
	40				19'-9"
	60S				19'-9"
	70				19'-9"
	80S				
	90				

Limit States Design (CANADA) - Floor Span Charts

23/32" [3/4"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling								Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ 24in:															
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only						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.	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.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.																		
40 PSF Live Load/30 PSF Dead Load																		40 PSF Live Load/30 PSF Dead Load																	
9-1/2"	20	16'-5"	15'-6"	14'-10**	11'-10**	17'-0"	16'-1"	14'-10**	11'-10**	16'-0"	15'-1"	14'-6**	11'-10**	16'-6"	15'-7"	14'-10**	11'-10**	9-1/2"	20					14'-0"	11'-2"										
	40S	16'-10"	15'-11"	14'-9"	13'-2"	17'-5"	16'-2"	14'-9"	13'-2"	16'-5"	15'-6"	14'-9"	13'-2"	17'-0"	16'-0"	14'-9"	13'-2"		40S																
	400	16'-10"	15'-11"	15'-4"	14'-3**	17'-5"	16'-5"	15'-10"	14'-3**	16'-5"	15'-6"	14'-11"	14'-3**	17'-0"	16'-0"	15'-5"	14'-3**		400						13'-7"										
	40	17'-1"	16'-2"	15'-7"	14'-11**	17'-9"	16'-9"	16'-1"	15'-6**	16'-8"	15'-9"	15'-2"	14'-7**	17'-4"	16'-3"	15'-8"	15'-1**		40						14'-3"										
	60S	17'-4"	16'-4"	15'-9"	14'-2**	18'-0"	16'-11"	16'-4"	14'-2**	16'-11"	15'-11"	15'-4"	14'-2**	17'-6"	16'-6"	15'-11"	14'-2**		60S						13'-8"										
	70	17'-8"	16'-8"	16'-1"	15'-5**	18'-6"	17'-3"	16'-8"	15'-10**	17'-4"	16'-4"	15'-8"	15'-1**	15'-1**	18'-0"	16'-11"	16'-3"		15'-7**	70						14'-9"									
11-7/8"	90	19'-2"	17'-9"	17'-1"	16'-4"	20'-2"	18'-7"	17'-9"	17'-0"	18'-9"	17'-5"	16'-9"	16'-1"	19'-8"	18'-2"	17'-5"	16'-8"	11-7/8"	90																
	20	18'-7"	17'-5"	16'-2**	12'-10**	19'-6"	18'-2"	16'-2**	12'-10**	17'-11"	16'-11"	16'-2**	12'-10**	18'-10"	17'-6"	16'-2**	12'-10**		20					15'-4"	12'-2"										
	40S	19'-2"	17'-10"	16'-9"	14'-11"	20'-1"	18'-4"	16'-9"	14'-11"	18'-7"	17'-4"	16'-9"	14'-11"	19'-5"	18'-0"	16'-9"	14'-11"		40S																
	400	19'-2"	17'-10"	17'-2"	14'-11**	20'-1"	18'-8"	17'-10"	14'-11**	18'-6"	17'-4"	16'-8"	14'-11**	19'-5"	18'-0"	17'-4"	14'-11**		400						14'-3"										
	40	19'-7"	18'-2"	17'-5"	16'-8**	20'-6"	19'-1"	18'-2"	16'-8**	18'-11"	17'-8"	17'-0"	16'-4**	19'-10"	18'-5"	17'-7"	16'-8**		40						15'-9"										
	60S	19'-10"	18'-5"	17'-8"	16'-8**	20'-10"	19'-4"	18'-6"	16'-8**	19'-3"	17'-10"	17'-3"	16'-6**	20'-3"	18'-9"	17'-10"	16'-8**		60S						15'-10"										
14"	70	20'-5"	18'-11"	18'-1"	16'-8**	21'-5"	19'-11"	19'-0"	16'-8**	19'-10"	18'-5"	17'-7"	16'-8**	20'-10"	19'-3"	18'-5"	16'-8**	14"	70						15'-10"										
	80S	21'-3"	19'-8"	18'-9"	17'-9"	22'-4"	20'-8"	19'-8"	18'-8**	20'-8"	19'-2"	18'-3"	17'-5"	21'-9"	20'-1"	19'-1"	18'-1**		80S						17'-10"										
	90	22'-2"	20'-6"	19'-6"	18'-6"	23'-4"	21'-7"	20'-6"	19'-5"	21'-8"	20'-0"	19'-1"	18'-0"	22'-10"	21'-0"	20'-0"	18'-11**		90																
	20	20'-9"	19'-3**	16'-2**	12'-10**	21'-9"	19'-5**	16'-2**	12'-10**	20'-0"	18'-6**	16'-2**	12'-10**	20'-11"	19'-5**	16'-2**	12'-10**		20			18'-6"	15'-4"	12'-2"											
	40S	21'-3"	19'-9"	18'-9"	16'-9**	22'-4"	20'-7"	18'-9"	16'-9**	20'-7"	19'-1"	18'-2"	16'-9**	21'-7"	20'-0"	18'-9"	16'-9**		40S						15'-10"										
	400	21'-4"	19'-10"	18'-8**	14'-11**	22'-5"	20'-10"	18'-8**	14'-11**	20'-7"	19'-1"	18'-3**	14'-11**	21'-7"	20'-0"	18'-8**	14'-11**		400				17'-11"	14'-3"											
16"	40	21'-9"	20'-3"	19'-3"	17'-5**	22'-10"	21'-3"	20'-3**	17'-5**	21'-1"	19'-6"	18'-7**	17'-5**	22'-1"	20'-6"	19'-6"	17'-5**	16"	40				19'-11"	15'-10"											
	60S	22'-1"	20'-6"	19'-7"	17'-5**	23'-3"	21'-7"	20'-7**	17'-5**	21'-5"	19'-10"	18'-11**	17'-5**	22'-6"	20'-10"	19'-10"	17'-5**		60S				19'-11"	15'-10"											
	70	22'-9"	21'-1"	20'-1**	17'-5**	23'-11"	22'-2"	21'-2**	17'-5**	22'-1"	20'-5"	19'-6"	17'-5**	23'-3"	21'-6"	20'-5**	17'-5**		70				19'-11"	15'-10"											
	80S	23'-7"	21'-10"	20'-10"	19'-9**	24'-10"	23'-0"	21'-11"	20'-9**	23'-0"	21'-3"	20'-3"	19'-2"	24'-2"	22'-4"	21'-3"	20'-1**		80S						19'-3"										
	90	24'-8"	22'-10"	21'-9"	20'-7"	26'-0"	24'-0"	22'-10"	21'-7**	24'-2"	22'-3"	21'-2"	20'-0"	25'-5"	23'-5"	22'-3"	21'-0"		90						21'-5"										
	40S	23'-2"	21'-7"	20'-3**	18'-1**	24'-4"	22'-2"	20'-3**	18'-1**	22'-5"	20'-9"	19'-10"	18'-1**	23'-6"	21'-10"	20'-3**	18'-1**		40S				19'-11"	15'-10"											
18"	400	23'-3"	21'-7**	18'-8**	14'-11**	24'-5"	22'-6**	18'-8**	14'-11**	22'-6"	20'-10"	18'-8**	14'-11**	23'-7"	21'-10"	18'-8**	14'-11**	18"	400			21'-6"	17'-11"	14'-3"											
	40	23'-9"	22'-0"	21'-0**	18'-1**	24'-11"	23'-2"	22'-1**	18'-1**	23'-0"	21'-3"	20'-3**	18'-1**	24'-1"	22'-4"	21'-3**	18'-1**		40				19'-11"	15'-10"											
	60S	24'-1"	22'-5"	21'-4**	18'-1**	25'-4"	23'-6"	22'-5**	18'-1**	23'-5"	21'-8"	20'-8**	18'-1**	24'-7"	22'-9"	21'-8**	18'-1**		60S				19'-11"	15'-10"											
	70	24'-10"	23'-0"	21'-11**	18'-1**	26'-1"	24'-2**	22'-9**	18'-1**	24'-1"	22'-3"	21'-3**	18'-1**	25'-4"	23'-5"	22'-4**	18'-1**		70			23'-11"	19'-11"	15'-10"											
	80S	25'-9"	23'-10"	22'-8"	20'-6**	27'-1"	25'-1"	23'-10"	22'-6**	25'-1"	23'-2"	22'-0"	20'-6**	26'-4"	24'-4"	23'-2"	21'-11**		80S						19'-3"										
	90	26'-11"	24'-11"	23'-8"	22'-5**	28'-4"	26'-2"	24'-11"	22'-6**	26'-4"	24'-3"	23'-1"	21'-9**	27'-8"	25'-6"	24'-3"	22'-6**		90						21'-5"										

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/30 PSF Dead Load					
9-1/2"	20			14'-0"	11'-2"
	40S				
	400				13'-7"
	40				14'-3"
	60S				13'-8"
	70				14'-9"
11-7/8"	90				
	20			15'-4"	12'-2"
	40S				
	400				14'-3"
	40				15'-9"
	60S				15'-10"
14"	70				15'-10"
	80S				17'-10"
	90				
	20		18'-6"	15'-4"	12'-2"
	40S				15'-10"
	400			17'-11"	14'-3"
16"	40			19'-11"	15'-10"
	60S			19'-11"	15'-10"
	70			19'-11"	15'-10"
	80S				19'-3"
	90				21'-5"
	40S			19'-11"	15'-10"
18"	400		21'-6"	17'-11"	14'-3"
	40			19'-11"	15'-10"
	60S			19'-11"	15'-10"
	70		23'-11"	19'-11"	15'-10"
	80S				19'-3"
	90				21'-5"

Limit States Design (CANADA) - Floor Span Charts

23/32" [3/4"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/35 PSF Dead Load																	
9-1/2"	20	16'-5"	15'-6"	13'-11"	11'-1"	17'-0"	16'-1"	13'-11"	11'-1"	16'-0"	15'-1"	13'-11"	11'-1"	16'-6"	15'-7"	13'-11"	11'-1"
	40S	16'-10"	15'-8"	14'-3"	12'-9"	17'-5"	15'-8"	14'-3"	12'-9"	16'-5"	15'-6"	14'-3"	12'-9"	17'-0"	15'-8"	14'-3"	12'-9"
	400	16'-10"	15'-11"	15'-4"	13'-4"	17'-5"	16'-5"	15'-10"	13'-4"	16'-5"	15'-6"	14'-11"	13'-4"	17'-0"	16'-0"	15'-5"	13'-4"
	40	17'-1"	16'-2"	15'-7"	14'-11"	17'-9"	16'-9"	16'-1"	14'-11"	16'-8"	15'-9"	15'-2"	14'-7"	17'-4"	16'-3"	15'-8"	14'-11"
	60S	17'-4"	16'-4"	15'-9"	13'-4"	18'-0"	16'-11"	16'-2"	13'-4"	16'-11"	15'-11"	15'-4"	13'-4"	17'-6"	16'-6"	15'-11"	13'-4"
	70	17'-8"	16'-8"	16'-1"	14'-11"	18'-6"	17'-3"	16'-8"	14'-11"	17'-4"	16'-4"	15'-8"	14'-11"	18'-0"	16'-11"	16'-3"	14'-11"
11-7/8"	90	19'-2"	17'-9"	17'-1"	16'-4"	20'-2"	18'-7"	17'-9"	17'-0"	18'-9"	17'-5"	16'-9"	16'-1"	19'-8"	18'-2"	17'-5"	16'-8"
	20	18'-7"	17'-5"	15'-2"	12'-1"	19'-6"	18'-2"	15'-2"	12'-1"	17'-11"	16'-11"	15'-2"	12'-1"	18'-10"	17'-6"	15'-2"	12'-1"
	40S	19'-2"	17'-10"	16'-3"	14'-6"	20'-1"	17'-10"	16'-3"	14'-6"	18'-7"	17'-4"	16'-3"	14'-6"	19'-5"	17'-10"	16'-3"	14'-6"
	400	19'-2"	17'-10"	17'-2"	14'-0"	20'-1"	18'-8"	17'-6"	14'-0"	18'-6"	17'-4"	16'-8"	14'-0"	19'-5"	18'-0"	17'-4"	14'-0"
	40	19'-7"	18'-2"	17'-5"	15'-8"	20'-6"	19'-1"	18'-2"	15'-8"	18'-11"	17'-8"	17'-0"	15'-8"	19'-10"	18'-5"	17'-7"	15'-8"
	60S	19'-10"	18'-5"	17'-8"	15'-8"	20'-10"	19'-4"	18'-5"	15'-8"	19'-3"	17'-10"	17'-3"	15'-8"	20'-3"	18'-9"	17'-10"	15'-8"
14"	70	20'-5"	18'-11"	18'-1"	15'-8"	21'-5"	19'-11"	19'-0"	15'-8"	19'-10"	18'-5"	17'-7"	15'-8"	20'-10"	19'-3"	18'-5"	15'-8"
	80S	21'-3"	19'-8"	18'-9"	18'-8"	22'-4"	20'-8"	19'-8"	18'-8"	20'-8"	19'-2"	18'-3"	17'-5"	21'-9"	20'-1"	19'-1"	18'-1"
	90	22'-2"	20'-6"	19'-6"	18'-6"	23'-4"	21'-7"	20'-6"	19'-5"	21'-8"	20'-0"	19'-1"	18'-0"	22'-10"	21'-0"	20'-0"	18'-11"
	20	20'-9"	18'-3"	15'-2"	12'-1"	21'-9"	18'-3"	15'-2"	12'-1"	20'-0"	18'-3"	15'-2"	12'-1"	20'-11"	18'-3"	15'-2"	12'-1"
	40S	21'-3"	19'-9"	18'-2"	16'-3"	22'-4"	19'-11"	18'-2"	16'-3"	20'-7"	19'-1"	18'-2"	16'-3"	21'-7"	19'-11"	18'-2"	16'-3"
	400	21'-4"	19'-10"	17'-6"	14'-0"	22'-5"	20'-10"	17'-6"	14'-0"	20'-7"	19'-1"	17'-6"	14'-0"	21'-7"	20'-0"	17'-6"	14'-0"
16"	40	21'-9"	20'-3"	19'-3"	16'-4"	22'-10"	21'-3"	20'-3"	16'-4"	21'-1"	19'-6"	18'-7"	16'-4"	22'-1"	20'-6"	19'-6"	16'-4"
	60S	22'-1"	20'-6"	19'-7"	16'-4"	23'-3"	21'-7"	20'-3"	16'-4"	21'-5"	19'-10"	18'-11"	16'-4"	22'-6"	20'-10"	19'-10"	16'-4"
	70	22'-9"	21'-1"	20'-1"	16'-4"	23'-11"	22'-2"	20'-6"	16'-4"	22'-1"	20'-5"	19'-6"	16'-4"	23'-3"	21'-6"	20'-5"	16'-4"
	80S	23'-7"	21'-10"	20'-10"	19'-3"	24'-10"	23'-0"	21'-11"	20'-1"	23'-0"	21'-3"	20'-3"	19'-2"	24'-2"	22'-4"	21'-3"	20'-1"
	90	24'-8"	22'-10"	21'-9"	20'-7"	26'-0"	24'-0"	22'-10"	21'-0"	24'-2"	22'-3"	21'-2"	20'-0"	25'-5"	23'-5"	22'-3"	21'-0"
	40S	23'-2"	21'-6"	19'-7"	17'-0"	24'-4"	21'-6"	19'-7"	17'-0"	22'-5"	20'-9"	19'-7"	17'-0"	23'-6"	21'-6"	19'-7"	17'-0"
16"	400	23'-3"	21'-1"	17'-6"	14'-0"	24'-5"	21'-1"	17'-6"	14'-0"	22'-6"	20'-10"	17'-6"	14'-0"	23'-7"	21'-1"	17'-6"	14'-0"
	40	23'-9"	22'-0"	21'-0"	17'-0"	24'-11"	23'-2"	21'-4"	17'-0"	23'-0"	21'-3"	20'-3"	17'-0"	24'-1"	22'-4"	21'-3"	17'-0"
	60S	24'-1"	22'-5"	21'-4"	17'-0"	25'-4"	23'-6"	21'-4"	17'-0"	23'-5"	21'-8"	20'-8"	17'-0"	24'-7"	22'-9"	21'-4"	17'-0"
	70	24'-10"	23'-0"	21'-4"	17'-0"	26'-1"	24'-2"	21'-4"	17'-0"	24'-1"	22'-3"	21'-3"	17'-0"	25'-4"	23'-5"	21'-4"	17'-0"
	80S	25'-9"	23'-10"	22'-8"	19'-3"	27'-1"	25'-1"	23'-10"	21'-1"	25'-1"	23'-2"	22'-0"	19'-3"	26'-4"	24'-4"	23'-2"	21'-1"
	90	26'-11"	24'-11"	23'-8"	21'-1"	28'-4"	26'-2"	24'-11"	21'-1"	26'-4"	24'-3"	23'-1"	21'-1"	27'-8"	25'-6"	24'-3"	21'-1"

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/35 PSF Dead Load					
9-1/2"	20		15'-10"	13'-2"	10'-6"
	40S				
	400				12'-9"
	40				13'-4"
	60S			16'-1"	12'-10"
	70				13'-11"
11-7/8"	90				
	20		17'-4"	14'-5"	11'-5"
	40S				
	400			16'-9"	13'-4"
	40				14'-10"
	60S				14'-11"
14"	70			18'-8"	14'-11"
	80S				16'-9"
	90				
	20		17'-4"	14'-5"	11'-5"
	40S				14'-11"
	400		20'-2"	16'-9"	13'-4"
16"	40			18'-8"	14'-11"
	60S			18'-8"	14'-11"
	70			18'-8"	14'-11"
	80S				18'-1"
	90				20'-1"
	40S			18'-8"	14'-11"
16"	400		20'-2"	16'-9"	13'-4"
	40		22'-6"	18'-8"	14'-11"
	60S		22'-6"	18'-8"	14'-11"
	70		22'-6"	18'-8"	14'-11"
	80S			22'-8"	18'-1"
	90				20'-1"

Limit States Design (CANADA) - Floor Span Charts

19/32" [5/8"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/10 PSF Dead Load																	
9-1/2"	20	15'-7"	14'-9"	14'-3"		16'-2"	15'-3"	14'-9"		15'-1"	14'-3"	13'-10"		15'-8"	14'-9"	14'-3"	
	40S	16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"		15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-8"	
	400	16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"		15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-8"	
	40	16'-3"	15'-4"	14'-10"		16'-10"	15'-11"	15'-4"		15'-10"	14'-11"	14'-5"		16'-4"	15'-5"	14'-11"	
	60S	16'-5"	15'-6"	15'-0"		17'-0"	16'-1"	15'-6"		16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"	
	70	16'-10"	15'-10"	15'-4"		17'-5"	16'-5"	15'-10"		16'-5"	15'-5"	14'-11"		17'-0"	16'-0"	15'-6"	
	90	18'-0"	16'-11"	16'-4"		18'-11"	17'-6"	16'-11"		17'-7"	16'-6"	16'-0"		18'-5"	17'-2"	16'-7"	
11-7/8"	20	17'-6"	16'-7"	16'-0"		18'-3"	17'-2"	16'-7"		17'-0"	16'-0"	15'-6"		17'-7"	16'-7"	16'-1"	
	40S	18'-0"	16'-11"	16'-5"		18'-10"	17'-7"	17'-0"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-6"	
	400	18'-0"	16'-11"	16'-5"		18'-10"	17'-7"	17'-0"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-6"	
	40	18'-4"	17'-3"	16'-8"		19'-3"	17'-11"	17'-3"		17'-9"	16'-9"	16'-2"		18'-7"	17'-4"	16'-9"	
	60S	18'-8"	17'-5"	16'-10"		19'-7"	18'-2"	17'-6"		18'-0"	16'-11"	16'-5"		18'-11"	17'-7"	17'-0"	
	70	19'-2"	17'-10"	17'-2"		20'-2"	18'-8"	17'-10"		18'-7"	17'-4"	16'-9"		19'-6"	18'-0"	17'-4"	
	80S	19'-11"	18'-5"	17'-8"		20'-11"	19'-5"	18'-7"		19'-4"	17'-11"	17'-3"		20'-4"	18'-9"	18'-0"	
14"	20	20'-10"	19'-3"	18'-5"		21'-11"	20'-3"	19'-4"		20'-3"	18'-9"	17'-11"		21'-4"	19'-8"	18'-10"	
	40S	19'-5"	18'-1"	17'-6"		20'-5"	19'-0"	18'-2"		18'-8"	17'-5"	16'-11"		19'-7"	18'-2"	17'-6"	
	400	20'-0"	18'-7"	17'-10"		21'-0"	19'-6"	18'-8"		19'-3"	17'-10"	17'-3"		20'-2"	18'-9"	17'-11"	
	40	20'-0"	18'-7"	17'-10"		21'-0"	19'-6"	18'-9"		19'-3"	17'-10"	17'-3"		20'-2"	18'-9"	17'-11"	
	60S	20'-5"	19'-0"	18'-2"		21'-5"	19'-11"	19'-1"		19'-8"	18'-3"	17'-7"		20'-8"	19'-2"	18'-4"	
	70	20'-9"	19'-3"	18'-6"		21'-10"	20'-3"	19'-5"		20'-1"	18'-7"	17'-10"		21'-1"	19'-6"	18'-8"	
	80S	21'-5"	19'-10"	19'-0"		22'-6"	20'-10"	19'-11"		20'-8"	19'-2"	18'-4"		21'-9"	20'-1"	19'-3"	
16"	20	22'-2"	20'-6"	19'-8"		23'-4"	21'-7"	20'-8"		21'-6"	19'-11"	19'-0"		22'-7"	20'-11"	20'-0"	
	40S	23'-3"	21'-6"	20'-6"		24'-5"	22'-7"	21'-7"		22'-7"	20'-10"	19'-11"		23'-9"	21'-11"	20'-11"	
	400	21'-9"	20'-3"	19'-5"		22'-11"	21'-3"	20'-5"		20'-11"	19'-5"	18'-8"		22'-0"	20'-5"	19'-7"	
	40	21'-10"	20'-3"	19'-5"		22'-11"	21'-4"	20'-5"		21'-0"	19'-6"	18'-8"		22'-0"	20'-5"	19'-7"	
	60S	22'-3"	20'-8"	19'-10"		23'-5"	21'-9"	20'-10"		21'-6"	19'-11"	19'-1"		22'-7"	20'-11"	20'-0"	
	70	22'-8"	21'-0"	20'-2"		23'-10"	22'-1"	21'-2"		21'-10"	20'-3"	19'-5"		23'-0"	21'-3"	20'-4"	
	80S	23'-4"	21'-7"	20'-8"		24'-6"	22'-9"	21'-9"		22'-7"	20'-10"	20'-0"		23'-8"	21'-11"	21'-0"	
18"	20	24'-2"	22'-5"	21'-5"		25'-5"	23'-7"	22'-6"		23'-6"	21'-8"	20'-9"		24'-8"	22'-9"	21'-9"	
	40S	25'-4"	23'-5"	22'-4"		26'-8"	24'-8"	23'-6"		24'-8"	22'-8"	21'-8"		25'-11"	23'-11"	22'-9"	

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/10 PSF Dead Load					
9-1/2"	20				
	40S				
	400				
	40				
	60S				
	70				
	90				
11-7/8"	20				
	40S				
	400				
	40				
	60S				
	70				
	80S				
14"	20				
	40S				
	400				
	40				
	60S				
	70				
	80S				
16"	20				
	40S				
	400				
	40				
	60S				
	70				
	80S				
	90				

Limit States Design (CANADA) - Floor Span Charts

19/32" [5/8"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM																	
Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/15 PSF Dead Load																	
9-1/2"	20	15'-7"	14'-9"	14'-3"		16'-2"	15'-3"	14'-9"		15'-1"	14'-3"	13'-10"		15'-8"	14'-9"	14'-3"	
	40S	16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"		15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-8"	
	400	16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"		15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-8"	
	40	16'-3"	15'-4"	14'-10"		16'-10"	15'-11"	15'-4"		15'-10"	14'-11"	14'-5"		16'-4"	15'-5"	14'-11"	
	60S	16'-5"	15'-6"	15'-0"		17'-0"	16'-1"	15'-6"		16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"	
	70	16'-10"	15'-10"	15'-4"		17'-5"	16'-5"	15'-10"		16'-5"	15'-5"	14'-11"		17'-0"	16'-0"	15'-6"	
	90	18'-0"	16'-11"	16'-4"		18'-11"	17'-6"	16'-11"		17'-7"	16'-6"	16'-0"		18'-5"	17'-2"	16'-7"	
11-7/8"	20	17'-6"	16'-7"	16'-0"		18'-3"	17'-2"	16'-7"		17'-0"	16'-0"	15'-6"		17'-7"	16'-7"	16'-1"	
	40S	18'-0"	16'-11"	16'-5"		18'-10"	17'-7"	17'-0"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-6"	
	400	18'-0"	16'-11"	16'-5"		18'-10"	17'-7"	17'-0"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-6"	
	40	18'-4"	17'-3"	16'-8"		19'-3"	17'-11"	17'-3"		17'-9"	16'-9"	16'-2"		18'-7"	17'-4"	16'-9"	
	60S	18'-8"	17'-5"	16'-10"		19'-7"	18'-2"	17'-6"		18'-0"	16'-11"	16'-5"		18'-11"	17'-7"	17'-0"	
	70	19'-2"	17'-10"	17'-2"		20'-2"	18'-8"	17'-10"		18'-7"	17'-4"	16'-9"		19'-6"	18'-0"	17'-4"	
	80S	19'-11"	18'-5"	17'-8"		20'-11"	19'-5"	18'-7"		19'-4"	17'-11"	17'-3"		20'-4"	18'-9"	18'-0"	
14"	20	20'-10"	19'-3"	18'-5"		21'-11"	20'-3"	19'-4"		20'-3"	18'-9"	17'-11"		21'-4"	19'-8"	18'-10"	
	40S	19'-5"	18'-1"	17'-6"		20'-5"	19'-0"	18'-2"		18'-8"	17'-5"	16'-11"		19'-7"	18'-2"	17'-6"	
	400	20'-0"	18'-7"	17'-10"		21'-0"	19'-6"	18'-8"		19'-3"	17'-10"	17'-3"		20'-2"	18'-9"	17'-11"	
	40	20'-5"	19'-0"	18'-2"		21'-5"	19'-11"	19'-1"		19'-8"	18'-3"	17'-7"		20'-8"	19'-2"	18'-4"	
	60S	20'-9"	19'-3"	18'-6"		21'-10"	20'-3"	19'-5"		20'-1"	18'-7"	17'-10"		21'-1"	19'-6"	18'-8"	
	70	21'-5"	19'-10"	19'-0"		22'-6"	20'-10"	19'-11"		20'-8"	19'-2"	18'-4"		21'-9"	20'-1"	19'-3"	
	80S	22'-2"	20'-6"	19'-8"		23'-4"	21'-7"	20'-8"		21'-6"	19'-11"	19'-0"		22'-7"	20'-11"	20'-0"	
16"	20	23'-3"	21'-6"	20'-6"		24'-5"	22'-7"	21'-7"		22'-7"	20'-10"	19'-11"		23'-9"	21'-11"	20'-11"	
	40S	21'-9"	20'-3"	19'-5"		22'-11"	21'-3"	20'-5"		20'-11"	19'-5"	18'-8"		22'-0"	20'-5"	19'-7"	
	400	21'-10"	20'-3"	19'-5"		22'-11"	21'-4"	20'-5"		21'-0"	19'-6"	18'-8"		22'-0"	20'-5"	19'-7"	
	40	22'-3"	20'-8"	19'-10"		23'-5"	21'-9"	20'-10"		21'-6"	19'-11"	19'-1"		22'-7"	20'-11"	20'-0"	
	60S	22'-8"	21'-0"	20'-2"		23'-10"	22'-1"	21'-2"		21'-10"	20'-3"	19'-5"		23'-0"	21'-3"	20'-4"	
	70	23'-4"	21'-7"	20'-8"		24'-6"	22'-9"	21'-9"		22'-7"	20'-10"	20'-0"		23'-8"	21'-11"	21'-0"	
	80S	24'-2"	22'-5"	21'-5"		25'-5"	23'-7"	22'-6"		23'-6"	21'-8"	20'-9"		24'-8"	22'-9"	21'-9"	
16"	20	25'-4"	23'-5"	22'-4"		26'-8"	24'-8"	23'-6"		24'-8"	22'-8"	21'-8"		25'-11"	23'-11"	22'-9"	
	40S																
	400																
	40																
	60S																
	70																
	80S																

*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:

12" o.c. 16" o.c. 19.2" o.c. 24" o.c.

Limit States Design (CANADA) - Floor Span Charts

19/32" [5/8"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/30 PSF Dead Load																	
9-1/2"	20	15'-7"	14'-9"	14'-3**		16'-2"	15'-3"	14'-9**		15'-1"	14'-3"	13'-10"		15'-8"	14'-9"	14'-3**	
	40S	16'-0"	15'-1"	14'-7"		16'-7"	15'-8"			15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-8"	
	400	16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"		15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-8"	
	40	16'-3"	15'-4"	14'-10"		16'-10"	15'-11"	15'-4"		15'-10"	14'-11"	14'-5"		16'-4"	15'-5"	14'-11"	
	60S	16'-5"	15'-6"	15'-0"		17'-0"	16'-1"	15'-6"		16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"	
	70	16'-10"	15'-10"	15'-4"		17'-5"	16'-5"	15'-10"		16'-5"	15'-5"	14'-11"		17'-0"	16'-0"	15'-6"	
11-7/8"	90	18'-0"	16'-11"	16'-4"		18'-11"	17'-6"	16'-11"		17'-7"	16'-6"	16'-0"		18'-5"	17'-2"	16'-7"	
	20	17'-6"	16'-7"	16'-0**		18'-3"	17'-2"	16'-2**		17'-0"	16'-0"	15'-6**		17'-7"	16'-7"	16'-1**	
	40S	18'-0"	16'-11"	16'-5"		18'-10"	17'-7"	16'-9"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-6"	
	400	18'-0"	16'-11"	16'-5"		18'-10"	17'-7"	17'-0"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-6"	
	40	18'-4"	17'-3"	16'-8"		19'-3"	17'-11"	17'-3"		17'-9"	16'-9"	16'-2"		18'-7"	17'-4"	16'-9"	
	60S	18'-8"	17'-5"	16'-10"		19'-7"	18'-2"	17'-6"		18'-0"	16'-11"	16'-5"		18'-11"	17'-7"	17'-0"	
14"	70	19'-2"	17'-10"	17'-2"		20'-2"	18'-8"	17'-10"		18'-7"	17'-4"	16'-9"		19'-6"	18'-0"	17'-4"	
	80S	19'-11"	18'-5"	17'-8"		20'-11"	19'-5"	18'-7"		19'-4"	17'-11"	17'-3"		20'-4"	18'-9"	18'-0"	
	90	20'-10"	19'-3"	18'-5"		21'-11"	20'-3"	19'-4"		20'-3"	18'-9"	17'-11"		21'-4"	19'-8"	18'-10"	
	20	19'-5"	18'-1"	16'-2**		20'-5"	19'-0**	16'-2**		18'-8"	17'-5"	16'-2**		19'-7"	18'-2"	16'-2**	
	40S	20'-0"	18'-7"	17'-10"		21'-0"	19'-6"	18'-8"		19'-3"	17'-10"	17'-3"		20'-2"	18'-9"	17'-11"	
	400	20'-0"	18'-7"	17'-10"		21'-0"	19'-6"	18'-8**		19'-3"	17'-10"	17'-3"		20'-2"	18'-9"	17'-11**	
16"	40	20'-5"	19'-0"	18'-2"		21'-5"	19'-11"	19'-1"		19'-8"	18'-3"	17'-7"		20'-8"	19'-2"	18'-4"	
	60S	20'-9"	19'-3"	18'-6"		21'-10"	20'-3"	19'-5"		20'-1"	18'-7"	17'-10"		21'-1"	19'-6"	18'-8"	
	70	21'-5"	19'-10"	19'-0"		22'-6"	20'-10"	19'-11**		20'-8"	19'-2"	18'-4"		21'-9"	20'-1"	19'-3"	
	80S	22'-2"	20'-6"	19'-8"		23'-4"	21'-7"	20'-8"		21'-6"	19'-11"	19'-0"		22'-7"	20'-11"	20'-0"	
	90	23'-3"	21'-6"	20'-6"		24'-5"	22'-7"	21'-7"		22'-7"	20'-10"	19'-11"		23'-9"	21'-11"	20'-11"	
	40S	21'-9"	20'-3"	19'-5"		22'-11"	21'-3"	20'-3**		20'-11"	19'-5"	18'-8"		22'-0"	20'-5"	19'-7"	
16"	400	21'-10"	20'-3"	18'-8**		22'-11"	21'-4"	18'-8**		21'-0"	19'-6"	18'-8**		22'-0"	20'-5"	18'-8**	
	40	22'-3"	20'-8"	19'-10"		23'-5"	21'-9"	20'-10**		21'-6"	19'-11"	19'-1"		22'-7"	20'-11"	20'-0**	
	60S	22'-8"	21'-0"	20'-2**		23'-10"	22'-1"	21'-2**		21'-10"	20'-3"	19'-5"		23'-0"	21'-3"	20'-4**	
	70	23'-4"	21'-7"	20'-8**		24'-6"	22'-9"	21'-9**		22'-7"	20'-10"	20'-0**		23'-8"	21'-11"	21'-0**	
	80S	24'-2"	22'-5"	21'-5"		25'-5"	23'-7"	22'-6"		23'-6"	21'-8"	20'-9"		24'-8"	22'-9"	21'-9"	
	90	25'-4"	23'-5"	22'-4"		26'-8"	24'-8"	23'-6"		24'-8"	22'-8"	21'-8"		25'-11"	23'-11"	22'-9"	

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/30 PSF Dead Load					
9-1/2"	20			14'-0"	
	40S				
	400				
	40				
	60S				
	70				
11-7/8"	90				
	20			15'-4"	
	40S				
	400				
	40				
	60S				
14"	70				
	80S				
	90				
	20		18'-6"	15'-4"	
	40S				
	400			17'-11"	
16"	40				
	60S				
	70			19'-11"	
	80S				
	90				
	40S			19'-11"	
16"	400			17'-11"	
	40			19'-11"	
	60S			19'-11"	
	70			19'-11"	
	80S				
	90				

Limit States Design (CANADA) - Floor Span Charts

19/32" [5/8"] OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM																	
Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/35 PSF Dead Load																	
9-1/2"	20	15'-7"	14'-9"	13'-11"		16'-2"	15'-3"	13'-11"		15'-1"	14'-3"	13'-10"		15'-8"	14'-9"	13'-11"	
	40S	16'-0"	15'-1"	14'-3"		16'-7"	15'-8"	14'-3"		15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-3"	
	400	16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"		15'-6"	14'-8"	14'-2"		16'-1"	15'-2"	14'-8"	
	40	16'-3"	15'-4"	14'-10"		16'-10"	15'-11"	15'-4"		15'-10"	14'-11"	14'-5"		16'-4"	15'-5"	14'-11"	
	60S	16'-5"	15'-6"	15'-0"		17'-0"	16'-1"	15'-6"		16'-0"	15'-1"	14'-7"		16'-7"	15'-8"	15'-1"	
	70	16'-10"	15'-10"	15'-4"		17'-5"	16'-5"	15'-10"		16'-5"	15'-5"	14'-11"		17'-0"	16'-0"	15'-6"	
11-7/8"	90	18'-0"	16'-11"	16'-4"		18'-11"	17'-6"	16'-11"		17'-7"	16'-6"	16'-0"		18'-5"	17'-2"	16'-7"	
	20	17'-6"	16'-7"	15'-2"		18'-3"	17'-2"	15'-2"		17'-0"	16'-0"	15'-2"		17'-7"	16'-7"	15'-2"	
	40S	18'-0"	16'-11"	16'-3"		18'-10"	17'-7"	16'-3"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-3"	
	400	18'-0"	16'-11"	16'-5"		18'-10"	17'-7"	17'-0"		17'-5"	16'-5"	15'-11"		18'-2"	17'-0"	16'-6"	
	40	18'-4"	17'-3"	16'-8"		19'-3"	17'-11"	17'-3"		17'-9"	16'-9"	16'-2"		18'-7"	17'-4"	16'-9"	
	60S	18'-8"	17'-5"	16'-10"		19'-7"	18'-2"	17'-6"		18'-0"	16'-11"	16'-5"		18'-11"	17'-7"	17'-0"	
14"	70	19'-2"	17'-10"	17'-2"		20'-2"	18'-8"	17'-10"		18'-7"	17'-4"	16'-9"		19'-6"	18'-0"	17'-4"	
	80S	19'-11"	18'-5"	17'-8"		20'-11"	19'-5"	18'-7"		19'-4"	17'-11"	17'-3"		20'-4"	18'-9"	18'-0"	
	90	20'-10"	19'-3"	18'-5"		21'-11"	20'-3"	19'-4"		20'-3"	18'-9"	17'-11"		21'-4"	19'-8"	18'-10"	
	20	19'-5"	18'-1"	15'-2"		20'-5"	18'-3"	15'-2"		18'-8"	17'-5"	15'-2"		19'-7"	18'-2"	15'-2"	
	40S	20'-0"	18'-7"	17'-10"		21'-0"	19'-6"	18'-2"		19'-3"	17'-10"	17'-3"		20'-2"	18'-9"	17'-11"	
	400	20'-0"	18'-7"	17'-6"		21'-0"	19'-6"	17'-6"		19'-3"	17'-10"	17'-3"		20'-2"	18'-9"	17'-6"	
16"	40	20'-5"	19'-0"	18'-2"		21'-5"	19'-11"	19'-1"		19'-8"	18'-3"	17'-7"		20'-8"	19'-2"	18'-4"	
	60S	20'-9"	19'-3"	18'-6"		21'-10"	20'-3"	19'-5"		20'-1"	18'-7"	17'-10"		21'-1"	19'-6"	18'-8"	
	70	21'-5"	19'-10"	19'-0"		22'-6"	20'-10"	19'-11"		20'-8"	19'-2"	18'-4"		21'-9"	20'-1"	19'-3"	
	80S	22'-2"	20'-6"	19'-8"		23'-4"	21'-7"	20'-8"		21'-6"	19'-11"	19'-0"		22'-7"	20'-11"	20'-0"	
	90	23'-3"	21'-6"	20'-6"		24'-5"	22'-7"	21'-7"		22'-7"	20'-10"	19'-11"		23'-9"	21'-11"	20'-11"	
	40S	21'-9"	20'-3"	19'-5"		22'-11"	21'-3"	19'-7"		20'-11"	19'-5"	18'-8"		22'-0"	20'-5"	19'-7"	
16"	400	21'-10"	20'-3"	17'-6"		22'-11"	21'-1"	17'-6"		21'-0"	19'-6"	17'-6"		22'-0"	20'-5"	17'-6"	
	40	22'-3"	20'-8"	19'-10"		23'-5"	21'-9"	20'-10"		21'-6"	19'-11"	19'-1"		22'-7"	20'-11"	20'-0"	
	60S	22'-8"	21'-0"	20'-2"		23'-10"	22'-1"	21'-2"		21'-10"	20'-3"	19'-5"		23'-0"	21'-3"	20'-4"	
	70	23'-4"	21'-7"	20'-8"		24'-6"	22'-9"	21'-4"		22'-7"	20'-10"	20'-0"		23'-8"	21'-11"	21'-0"	
	80S	24'-2"	22'-5"	21'-5"		25'-5"	23'-7"	22'-6"		23'-6"	21'-8"	20'-9"		24'-8"	22'-9"	21'-9"	
	90	25'-4"	23'-5"	22'-4"		26'-8"	24'-8"	23'-6"		24'-8"	22'-8"	21'-8"		25'-11"	23'-11"	22'-9"	

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/35 PSF Dead Load					
9-1/2"	20			13'-2"	
	40S				
	400				
	40				
	60S				
	70				
11-7/8"	20			14'-5"	
	40S				
	400			16'-9"	
	40				
	60S				
	70				
14"	80S				
	90				
	20		17'-4"	14'-5"	
	40S				
	400			16'-9"	
	40			18'-8"	
16"	60S			18'-8"	
	70			18'-8"	
	80S				
	90				
	40S			18'-8"	
	400		20'-2"	16'-9"	
16"	40			18'-8"	
	60S			18'-8"	
	70		22'-6"	18'-8"	
	80S				
	90				

Limit States Design (CANADA) - Floor Span Charts

7/8" OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/10 PSF Dead Load																	
9-1/2"	20	17'-4"	16'-1"	15'-1"	13'-11"	18'-0"	17'-0"	16'-4"	15'-1"	16'-11"	16'-0"	15'-1"	13'-11"	17'-6"	16'-6"	15'-11"	15'-1"
	40S	17'-9"	16'-10"	15'-10"	14'-8"	18'-7"	17'-5"	16'-9"	15'-4"	17'-4"	16'-5"	15'-9"	14'-8"	18'-0"	16'-11"	16'-4"	15'-4"
	400	17'-9"	16'-9"	15'-10"	14'-8"	18'-7"	17'-5"	16'-9"	15'-10"	17'-4"	16'-4"	15'-9"	14'-8"	18'-0"	16'-11"	16'-4"	15'-7"
	40	18'-1"	17'-1"	16'-5"	15'-2"	19'-0"	17'-8"	17'-0"	16'-3"	17'-8"	16'-8"	16'-0"	15'-2"	18'-5"	17'-3"	16'-7"	15'-10"
	60S	18'-4"	17'-3"	16'-7"	15'-6"	19'-3"	17'-11"	17'-3"	16'-5"	17'-11"	16'-10"	16'-3"	15'-6"	18'-9"	17'-6"	16'-10"	16'-1"
	70	18'-10"	17'-7"	16'-11"	16'-2"	19'-9"	18'-5"	17'-7"	16'-9"	18'-5"	17'-3"	16'-7"	15'-10"	19'-3"	17'-11"	17'-2"	16'-5"
11-7/8"	90	20'-6"	19'-0"	18'-1"	17'-2"	21'-6"	19'-11"	18'-11"	17'-10"	20'-1"	18'-7"	17'-9"	16'-11"	21'-1"	19'-6"	18'-6"	17'-6"
	20	19'-11"	18'-7"	17'-9"	16'-9**	20'-11"	19'-6"	18'-7"	17'-5**	19'-3"	17'-11"	17'-3"	16'-5"	20'-2"	18'-9"	17'-10"	17'-0**
	40S	20'-6"	19'-1"	18'-3"	17'-4"	21'-6"	20'-0"	19'-1"	17'-5"	19'-10"	18'-6"	17'-8"	16'-10"	20'-10"	19'-4"	18'-5"	17'-5"
	400	20'-6"	19'-1"	18'-2"	17'-4"	21'-6"	20'-0"	19'-1"	18'-0"	19'-10"	18'-5"	17'-8"	16'-10"	20'-10"	19'-4"	18'-5"	17'-5"
	40	20'-11"	19'-5"	18'-7"	17'-7"	21'-11"	20'-5"	19'-6"	18'-5"	20'-4"	18'-10"	17'-11"	17'-2"	21'-3"	19'-9"	18'-10"	17'-9"
	60S	21'-3"	19'-9"	18'-10"	17'-10"	22'-3"	20'-9"	19'-9"	18'-8"	20'-8"	19'-2"	18'-3"	17'-4"	21'-8"	20'-1"	19'-2"	18'-1"
14"	70	21'-10"	20'-3"	19'-4"	18'-3"	22'-11"	21'-4"	20'-4"	19'-2"	21'-3"	19'-9"	18'-9"	17'-9"	22'-4"	20'-8"	19'-8"	18'-7"
	80S	22'-8"	21'-0"	20'-0"	18'-10"	23'-10"	22'-1"	21'-0"	19'-10"	22'-2"	20'-6"	19'-6"	18'-5"	23'-3"	21'-6"	20'-6"	19'-3"
	90	23'-8"	21'-11"	20'-10"	19'-8"	24'-11"	23'-1"	21'-11"	20'-8"	23'-3"	21'-6"	20'-5"	19'-2"	24'-5"	22'-7"	21'-5"	20'-2"
	20	22'-2"	20'-8"	19'-9"	17'-5**	23'-3"	21'-8"	20'-8"	17'-5**	21'-5"	19'-10"	18'-11"	17'-5**	22'-5"	20'-10"	19'-10"	17'-5**
	40S	22'-9"	21'-2"	20'-3"	19'-1"	23'-11"	22'-3"	21'-3"	19'-6"	22'-1"	20'-6"	19'-6"	18'-5"	23'-1"	21'-6"	20'-5"	19'-3"
	400	22'-9"	21'-3"	20'-3"	19'-1"	23'-11"	22'-3"	21'-3"	20'-1**	22'-1"	20'-6"	19'-6"	18'-5"	23'-2"	21'-6"	20'-5"	19'-4**
16"	40	23'-3"	21'-8"	20'-8"	19'-6"	24'-5"	22'-9"	21'-8"	20'-6"	22'-7"	20'-11"	19'-11"	18'-10"	23'-8"	22'-0"	20'-11"	19'-9"
	60S	23'-7"	22'-0"	20'-11"	19'-9"	24'-10"	23'-1"	22'-0"	20'-9"	23'-0"	21'-4"	20'-3"	19'-1"	24'-1"	22'-4"	21'-3"	20'-1"
	70	24'-3"	22'-7"	21'-6"	20'-3"	25'-6"	23'-9"	22'-7"	21'-4"	23'-8"	21'-11"	20'-10"	19'-8"	24'-10"	23'-0"	21'-11"	20'-8"
	80S	25'-2"	23'-5"	22'-3"	21'-0"	26'-5"	24'-7"	23'-5"	22'-1"	24'-7"	22'-9"	21'-8"	20'-5"	25'-10"	23'-11"	22'-9"	21'-5"
	90	26'-4"	24'-5"	23'-3"	21'-10"	27'-8"	25'-8"	24'-5"	23'-0"	25'-10"	23'-10"	22'-8"	21'-4"	27'-2"	25'-1"	23'-10"	22'-5"
	40S	24'-9"	23'-1"	22'-0"	20'-10"	26'-0"	24'-3"	23'-2"	21'-0"	24'-0"	22'-3"	21'-3"	20'-0"	25'-2"	23'-5"	22'-3"	21'-0"
16"	400	24'-10"	23'-2"	22'-1"	20'-2**	26'-1"	24'-4"	23'-2"	20'-2**	24'-0"	22'-4"	21'-3"	20'-0**	25'-3"	23'-5"	22'-3"	20'-2**
	40	25'-4"	23'-7"	22'-6"	21'-3"	26'-7"	24'-9"	23'-8"	22'-4**	24'-7"	22'-10"	21'-8"	20'-5"	25'-10"	23'-11"	22'-9"	21'-6**
	60S	25'-9"	23'-11"	22'-10"	21'-7**	27'-0"	25'-2"	24'-0"	22'-8**	25'-0"	23'-2"	22'-1"	20'-10"	26'-3"	24'-4"	23'-2"	21'-10**
	70	26'-5"	24'-7"	23'-5"	22'-1**	27'-10"	25'-10"	24'-8"	23'-3**	25'-9"	23'-11"	22'-9"	21'-5**	27'-1"	25'-1"	23'-10"	22'-6**
	80S	27'-5"	25'-6"	24'-3"	22'-10"	28'-10"	26'-9"	25'-6"	24'-0"	26'-10"	24'-10"	23'-7"	22'-2"	28'-2"	26'-1"	24'-9"	23'-4"
	90	28'-8"	26'-7"	25'-3"	23'-10"	30'-2"	28'-0"	26'-7"	25'-1"	28'-1"	26'-0"	24'-8"	23'-2"	29'-7"	27'-4"	25'-11"	24'-5"

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/10 PSF Dead Load					
9-1/2"	20				
	40S				
	400				
	40				
	60S				
	70				
11-7/8"	90				
	20				16'-6"
	40S				
	400				
	40				
	60S				
14"	70				
	80S				
	90				
	20				16'-6"
	40S				
	400				19'-3"
16"	40				
	60S				
	70				
	80S				
	90				
	40S				
16"	400				19'-3"
	40				21'-5"
	60S				21'-5"
	70				21'-5"
	80S				
	90				

Limit States Design (CANADA) - Floor Span Charts

7/8" OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling							
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only			
		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.	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.
40 PSF Live Load/15 PSF Dead Load																	
9-1/2"	20	17'-4"	16'-1"	15'-1"	13'-11"	18'-0"	17'-0"	16'-4"	14'-8"	16'-11"	16'-0"	15'-1"	13'-11"	17'-6"	16'-6"	15'-11"	14'-8"
	40S	17'-9"	16'-10"	15'-10"	14'-8"	18'-7"	17'-5"	16'-5"	14'-8"	17'-4"	16'-5"	15'-9"	14'-8"	18'-0"	16'-11"	16'-4"	14'-8"
	400	17'-9"	16'-9"	15'-10"	14'-8"	18'-7"	17'-5"	16'-9"	15'-10"	17'-4"	16'-4"	15'-9"	14'-8"	18'-0"	16'-11"	16'-4"	15'-7"
	40	18'-1"	17'-1"	16'-5"	15'-2"	19'-0"	17'-8"	17'-0"	16'-3"	17'-8"	16'-8"	16'-0"	15'-2"	18'-5"	17'-3"	16'-7"	15'-10"
	60S	18'-4"	17'-3"	16'-7"	15'-6"	19'-3"	17'-11"	17'-3"	16'-5"	17'-11"	16'-10"	16'-3"	15'-6"	18'-9"	17'-6"	16'-10"	16'-1"
	70	18'-10"	17'-7"	16'-11"	16'-2"	19'-9"	18'-5"	17'-7"	16'-9"	18'-5"	17'-3"	16'-7"	15'-10"	19'-3"	17'-11"	17'-2"	16'-5"
11-7/8"	90	20'-6"	19'-0"	18'-1"	17'-2"	21'-6"	19'-11"	18'-11"	17'-10"	20'-1"	18'-7"	17'-9"	16'-11"	21'-1"	19'-6"	18'-6"	17'-6"
	20	19'-11"	18'-7"	17'-9"	16'-0"	20'-11"	19'-6"	18'-7"	16'-0"	19'-3"	17'-11"	17'-3"	16'-0"	20'-2"	18'-9"	17'-10"	16'-0"
	40S	20'-6"	19'-1"	18'-3"	16'-10"	21'-6"	20'-0"	18'-8"	16'-8"	19'-10"	18'-6"	17'-8"	16'-10"	20'-10"	19'-4"	18'-5"	16'-8"
	400	20'-6"	19'-1"	18'-2"	17'-4"	21'-6"	20'-0"	19'-1"	18'-0"	19'-10"	18'-5"	17'-8"	16'-10"	20'-10"	19'-4"	18'-5"	17'-5"
	40	20'-11"	19'-5"	18'-7"	17'-7"	21'-11"	20'-5"	19'-6"	18'-5"	20'-4"	18'-10"	17'-11"	17'-2"	21'-3"	19'-9"	18'-10"	17'-9"
	60S	21'-3"	19'-9"	18'-10"	17'-10"	22'-3"	20'-9"	19'-9"	18'-8"	20'-8"	19'-2"	18'-3"	17'-4"	21'-8"	20'-1"	19'-2"	18'-1"
14"	70	21'-10"	20'-3"	19'-4"	18'-3"	22'-11"	21'-4"	20'-4"	19'-2"	21'-3"	19'-9"	18'-9"	17'-9"	22'-4"	20'-8"	19'-8"	18'-7"
	80S	22'-8"	21'-0"	20'-0"	18'-10"	23'-10"	22'-1"	21'-0"	19'-10"	22'-2"	20'-6"	19'-6"	18'-5"	23'-3"	21'-6"	20'-6"	19'-3"
	90	23'-8"	21'-11"	20'-10"	19'-8"	24'-11"	23'-1"	21'-11"	20'-8"	23'-3"	21'-6"	20'-5"	19'-2"	24'-5"	22'-7"	21'-5"	20'-2"
	20	22'-2"	20'-8"	19'-9"	16'-0"	23'-3"	21'-8"	20'-1"	16'-0"	21'-5"	19'-10"	18'-11"	16'-0"	22'-5"	20'-10"	19'-10"	16'-0"
	40S	22'-9"	21'-2"	20'-3"	18'-8"	23'-11"	22'-3"	20'-11"	18'-8"	22'-1"	20'-6"	19'-6"	18'-5"	23'-1"	21'-6"	20'-5"	18'-8"
	400	22'-9"	21'-3"	20'-3"	18'-6"	23'-11"	22'-3"	21'-3"	18'-6"	22'-1"	20'-6"	19'-6"	18'-5"	23'-2"	21'-6"	20'-5"	18'-6"
16"	40	23'-3"	21'-8"	20'-8"	19'-6"	24'-5"	22'-9"	21'-8"	20'-6"	22'-7"	20'-11"	19'-11"	18'-10"	23'-8"	22'-0"	20'-11"	19'-9"
	60S	23'-7"	22'-0"	20'-11"	19'-9"	24'-10"	23'-1"	22'-0"	20'-9"	23'-0"	21'-4"	20'-3"	19'-1"	24'-1"	22'-4"	21'-3"	20'-1"
	70	24'-3"	22'-7"	21'-6"	20'-3"	25'-6"	23'-9"	22'-7"	21'-4"	23'-8"	21'-11"	20'-10"	19'-8"	24'-10"	23'-0"	21'-11"	20'-8"
	80S	25'-2"	23'-5"	22'-3"	21'-0"	26'-5"	24'-7"	23'-5"	22'-1"	24'-7"	22'-9"	21'-8"	20'-5"	25'-10"	23'-11"	22'-9"	21'-5"
	90	26'-4"	24'-5"	23'-3"	21'-10"	27'-8"	25'-8"	24'-5"	23'-0"	25'-10"	23'-10"	22'-8"	21'-4"	27'-2"	25'-1"	23'-10"	22'-5"
	40S	24'-9"	23'-1"	22'-0"	20'-1"	26'-0"	24'-3"	22'-6"	20'-1"	24'-0"	22'-3"	21'-3"	20'-0"	25'-2"	23'-5"	22'-3"	20'-1"
16"	400	24'-10"	23'-2"	22'-1"	18'-6"	26'-1"	24'-4"	23'-2"	18'-6"	24'-0"	22'-4"	21'-3"	18'-6"	25'-3"	23'-5"	22'-3"	18'-6"
	40	25'-4"	23'-7"	22'-6"	21'-3"	26'-7"	24'-9"	23'-8"	22'-4"	24'-7"	22'-10"	21'-8"	20'-5"	25'-10"	23'-11"	22'-9"	21'-6"
	60S	25'-9"	23'-11"	22'-10"	21'-7"	27'-0"	25'-2"	24'-0"	22'-5"	25'-0"	23'-2"	22'-1"	20'-10"	26'-3"	24'-4"	23'-2"	21'-10"
	70	26'-5"	24'-7"	23'-5"	22'-1"	27'-10"	25'-10"	24'-8"	22'-6"	25'-9"	23'-11"	22'-9"	21'-5"	27'-1"	25'-1"	23'-10"	22'-6"
	80S	27'-5"	25'-6"	24'-3"	22'-10"	28'-10"	26'-9"	25'-6"	24'-0"	26'-10"	24'-10"	23'-7"	22'-2"	28'-2"	26'-1"	24'-9"	23'-4"
	90	28'-8"	26'-7"	25'-3"	23'-10"	30'-2"	28'-0"	26'-7"	25'-1"	28'-1"	26'-0"	24'-8"	23'-2"	29'-7"	27'-4"	25'-11"	24'-5"

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/15 PSF Dead Load					
9-1/2"	20				13'-11"
	40S				
	400				
	40				
	60S				
	70				
11-7/8"	90				
	20				15'-2"
	40S				
	400				17'-8"
	40				
	60S				
14"	70				
	80S				
	90				
	20			19'-1"	15'-2"
	40S				
	400				17'-8"
16"	40				19'-9"
	60S				19'-9"
	70				19'-9"
	80S				
	90				
	40S				19'-9"
16"	400			22'-3"	17'-8"
	40				19'-9"
	60S				19'-9"
	70				19'-9"
	80S				23'-11"
	90				

Limit States Design (CANADA) - Floor Span Charts

7/8" OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling								Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ 24in:			
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only						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.	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.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.						
40 PSF Live Load/30 PSF Dead Load																		40 PSF Live Load/30 PSF Dead Load					
9-1/2"	20	17'-4"	16'-1"	14'-10"	11'-10"	18'-0"	16'-8"	14'-10"	11'-10"	16'-11"	16'-0"	14'-10"	11'-10"	17'-6"	16'-6"	14'-10"	11'-10"	20			14'-0"	11'-2"	
	40S	17'-9"	16'-2"	14'-9"	13'-2"	18'-7"	16'-2"	14'-9"	13'-2"	17'-4"	16'-2"	14'-9"	13'-2"	18'-0"	16'-2"	14'-9"	13'-2"	40S					
	400	17'-9"	16'-9"	15'-10"	14'-3"	18'-7"	17'-5"	16'-7"	14'-3"	17'-4"	16'-4"	15'-9"	14'-3"	18'-0"	16'-11"	16'-4"	14'-3"	400				13'-7"	
	40	18'-1"	17'-1"	16'-5"	15'-2"	19'-0"	17'-8"	17'-0"	15'-8"	17'-8"	16'-8"	16'-0"	15'-2"	18'-5"	17'-3"	16'-7"	15'-8"	40				14'-3"	
	60S	18'-4"	17'-3"	16'-7"	14'-2"	19'-3"	17'-11"	16'-8"	14'-2"	17'-11"	16'-10"	16'-3"	14'-2"	18'-9"	17'-6"	16'-8"	14'-2"	60S				13'-8"	
	70	18'-10"	17'-7"	16'-11"	15'-10"	19'-9"	18'-5"	17'-7"	15'-10"	18'-5"	17'-3"	16'-7"	15'-10"	19'-3"	17'-11"	17'-2"	15'-10"	70				14'-9"	
11-7/8"	90	20'-6"	19'-0"	18'-1"	17'-2"	21'-6"	19'-11"	18'-11"	17'-10"	20'-1"	18'-7"	17'-9"	16'-11"	21'-1"	19'-6"	18'-6"	17'-6"	90					
	20	19'-11"	18'-7"	16'-2"	12'-10"	20'-11"	19'-0"	16'-2"	12'-10"	19'-3"	17'-11"	16'-2"	12'-10"	20'-2"	18'-9"	16'-2"	12'-10"	20			18'-6"	15'-4"	
	40S	20'-6"	18'-4"	16'-9"	14'-11"	21'-3"	18'-4"	16'-9"	14'-11"	19'-10"	18'-4"	16'-9"	14'-11"	20'-10"	18'-4"	16'-9"	14'-11"	40S					
	400	20'-6"	19'-1"	18'-2"	14'-11"	21'-6"	20'-0"	18'-8"	14'-11"	19'-10"	18'-5"	17'-8"	14'-11"	20'-10"	19'-4"	18'-5"	14'-11"	400			17'-11"	14'-3"	
	40	20'-11"	19'-5"	18'-7"	16'-8"	21'-11"	20'-5"	19'-6"	16'-8"	20'-4"	18'-10"	17'-11"	16'-8"	21'-3"	19'-9"	18'-10"	16'-8"	40				15'-9"	
	60S	21'-3"	19'-9"	18'-10"	16'-8"	22'-3"	20'-9"	19'-0"	16'-8"	20'-8"	19'-2"	18'-3"	16'-8"	21'-8"	20'-1"	19'-0"	16'-8"	60S				15'-10"	
14"	70	21'-10"	20'-3"	19'-4"	16'-8"	22'-11"	21'-4"	20'-4"	16'-8"	21'-3"	19'-9"	18'-9"	16'-8"	22'-4"	20'-8"	19'-8"	16'-8"	70			19'-11"	15'-10"	
	80S	22'-8"	21'-0"	20'-0"	18'-10"	23'-10"	22'-1"	21'-0"	19'-10"	22'-2"	20'-6"	19'-6"	18'-5"	23'-3"	21'-6"	20'-6"	19'-3"	80S				17'-10"	
	90	23'-8"	21'-11"	20'-10"	19'-8"	24'-11"	23'-1"	21'-11"	20'-8"	23'-3"	21'-6"	20'-5"	19'-2"	24'-5"	22'-7"	21'-5"	20'-2"	90					
	20	22'-2"	19'-5"	16'-2"	12'-10"	23'-3"	19'-5"	16'-2"	12'-10"	21'-5"	19'-5"	16'-2"	12'-10"	22'-5"	19'-5"	16'-2"	12'-10"	20			18'-6"	15'-4"	
	40S	22'-9"	20'-7"	18'-9"	16'-9"	23'-10"	20'-7"	18'-9"	16'-9"	22'-1"	20'-7"	18'-9"	16'-9"	23'-1"	20'-7"	18'-9"	16'-9"	40S				15'-10"	
	400	22'-9"	21'-3"	18'-8"	14'-11"	23'-11"	22'-3"	18'-8"	14'-11"	22'-1"	20'-6"	18'-8"	14'-11"	23'-2"	21'-6"	18'-8"	14'-11"	400			21'-6"	17'-11"	
16"	40	23'-3"	21'-8"	20'-8"	17'-5"	24'-5"	22'-9"	21'-8"	17'-5"	22'-7"	20'-11"	19'-11"	17'-5"	23'-8"	22'-0"	20'-11"	17'-5"	40			19'-11"	15'-10"	
	60S	23'-7"	22'-0"	20'-11"	17'-5"	24'-10"	22'-11"	20'-11"	17'-5"	23'-0"	21'-4"	20'-3"	17'-5"	24'-1"	22'-4"	20'-11"	17'-5"	60S			19'-11"	15'-10"	
	70	24'-3"	22'-7"	21'-6"	17'-5"	25'-6"	23'-9"	21'-10"	17'-5"	23'-8"	21'-11"	20'-10"	17'-5"	24'-10"	23'-0"	21'-10"	17'-5"	70			19'-11"	15'-10"	
	80S	25'-2"	23'-5"	22'-3"	20'-6"	26'-5"	24'-7"	23'-5"	21'-5"	24'-7"	22'-9"	21'-8"	20'-5"	25'-10"	23'-11"	22'-9"	21'-5"	80S				19'-3"	
	90	26'-4"	24'-5"	23'-3"	21'-10"	27'-8"	25'-8"	24'-5"	22'-4"	25'-10"	23'-10"	22'-8"	21'-4"	27'-2"	25'-1"	23'-10"	22'-4"	90				21'-5"	
	40S	24'-9"	22'-2"	20'-3"	18'-1"	25'-8"	22'-2"	20'-3"	18'-1"	24'-0"	22'-2"	20'-3"	18'-1"	25'-2"	22'-2"	20'-3"	18'-1"	40S			19'-11"	15'-10"	
18"	400	24'-10"	22'-6"	18'-8"	14'-11"	26'-1"	22'-6"	18'-8"	14'-11"	24'-0"	22'-4"	18'-8"	14'-11"	25'-3"	22'-6"	18'-8"	14'-11"	400			21'-6"	17'-11"	
	40	25'-4"	23'-7"	22'-6"	18'-1"	26'-7"	24'-9"	22'-9"	18'-1"	24'-7"	22'-10"	21'-8"	18'-1"	25'-10"	23'-11"	22'-9"	18'-1"	40			23'-11"	19'-11"	
	60S	25'-9"	23'-11"	22'-7"	18'-1"	27'-0"	24'-9"	22'-7"	18'-1"	25'-0"	23'-2"	22'-1"	18'-1"	26'-3"	24'-4"	22'-7"	18'-1"	60S			23'-11"	19'-11"	
	70	26'-5"	24'-7"	22'-9"	18'-1"	27'-10"	25'-10"	22'-9"	18'-1"	25'-9"	23'-11"	22'-9"	18'-1"	27'-1"	25'-1"	22'-9"	18'-1"	70			23'-11"	15'-10"	
	80S	27'-5"	25'-6"	24'-3"	20'-6"	28'-10"	26'-9"	25'-6"	22'-6"	26'-10"	24'-10"	23'-7"	20'-6"	28'-2"	26'-1"	24'-9"	22'-6"	80S			24'-1"	19'-3"	
	90	28'-8"	26'-7"	25'-3"	22'-6"	30'-2"	28'-0"	26'-7"	22'-6"	28'-1"	26'-0"	24'-8"	22'-6"	29'-7"	27'-4"	25'-11"	22'-6"	90				21'-5"	

Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is $\leq 5\ 1/4"$ and the span on either side of the int. bearing is \geq than:			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
40 PSF Live Load/30 PSF Dead Load					
9-1/2"	20			14'-0"	11'-2"
	40S				
	400				13'-7"
	40				14'-3"
	60S				13'-8"
	70				14'-9"
11-7/8"	20		18'-6"	15'-4"	12'-2"
	40S				
	400			17'-11"	14'-3"
	40				15'-9"
	60S				15'-10"
	70			19'-11"	15'-10"
14"	20				17'-10"
	40S				
	400		18'-6"	15'-4"	12'-2"
	40				15'-10"
	60S		21'-6"	17'-11"	14'-3"
	70			19'-11"	15'-10"
16"	20				15'-10"
	40S				
	400			19'-11"	15'-10"
	40			19'-11"	15'-10"
	60S		23'-11"	19'-11"	15'-10"
	70		23'-11"	19'-11"	15'-10"
18"	20			24'-1"	19'-3"
	40S				21'-5"
	400				19'-3"
	40				19'-3"
	60S				19'-3"
	70				19'-3"

Limit States Design (CANADA) - Floor Span Charts

7/8" OSB SUBFLOOR (GLUED-NAILED), STANDARD TERM

Depth	RFPI®	Directly Applied Ceiling								No Directly Applied Ceiling								Depth	RFPI®	*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ 24in:			
		Simple or Continuous Span				Continuous Span Only				Simple or Continuous Span				Continuous Span Only						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.	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.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.						
40 PSF Live Load/35 PSF Dead Load																		40 PSF Live Load/35 PSF Dead Load					
9-1/2"	20	17'-4"	16'-0**	13'-11**	11'-1**	18'-0"	16'-2**	13'-11**	11'-1**	16'-11"	16'-0**	13'-11**	11'-1**	17'-6"	16'-2**	13'-11**	11'-1**	20			15'-10"	13'-2"	10'-6"
	40S	17'-9"	15'-8"	14'-3"	12'-9"	18'-2"	15'-8"	14'-3"	12'-9"	17'-4"	15'-8"	14'-3"	12'-9"	18'-0"	15'-8"	14'-3"	12'-9"	40S					
	400	17'-9"	16'-8"	15'-9"	13'-4**	18'-7"	17'-5"	16'-0**	13'-4**	17'-4"	16'-4"	15'-9"	13'-4**	18'-0"	16'-11"	16'-0**	13'-4**	400				16'-0"	12'-9"
	40	18'-1"	17'-1"	16'-3"	14'-11**	19'-0"	17'-8"	17'-0**	14'-11**	17'-8"	16'-8"	16'-0"	14'-11**	18'-5"	17'-3"	16'-7"	14'-11**	40				16'-9"	13'-4"
	60S	18'-4"	17'-3"	16'-2**	13'-4**	19'-3"	17'-9"	16'-2**	13'-4**	17'-11"	16'-10"	16'-2**	13'-4**	18'-9"	17'-6"	16'-2**	13'-4**	60S				16'-1"	12'-10"
	70	18'-10"	17'-7"	16'-11"	14'-11**	19'-9"	18'-5"	17'-7**	14'-11**	18'-5"	17'-3"	16'-7"	14'-11**	19'-3"	17'-11"	17'-2"	14'-11**	70				17'-5"	13'-11"
11-7/8"	20	19'-11"	18'-3**	15'-2**	12'-1**	20'-11"	18'-3**	15'-2**	12'-1**	19'-3"	17'-11**	15'-2**	12'-1**	20'-2"	18'-3**	15'-2**	12'-1**	20			17'-4"	14'-5"	11'-5"
	40S	20'-6"	17'-10"	16'-3"	14'-6"	20'-7"	17'-10"	16'-3"	14'-6"	19'-10"	17'-10"	16'-3"	14'-6"	20'-7"	17'-10"	16'-3"	14'-6"	40S					
	400	20'-6"	19'-1"	17'-6**	14'-0**	21'-6"	20'-0"	17'-6**	14'-0**	19'-10"	18'-5"	17'-6**	14'-0**	20'-10"	19'-4"	17'-6**	14'-0**	400				16'-9"	13'-4"
	40	20'-11"	19'-5"	18'-7**	15'-8**	21'-11"	20'-5"	19'-5**	15'-8**	20'-4"	18'-10"	17'-11"	15'-8**	21'-3"	19'-9"	18'-10**	15'-8**	40				18'-7"	14'-10"
	60S	21'-3"	19'-9"	18'-5"	15'-8**	22'-3"	20'-3"	18'-5"	15'-8**	20'-8"	19'-2"	18'-3"	15'-8**	21'-8"	20'-1"	18'-5"	15'-8**	60S					14'-11"
	70	21'-10"	20'-3"	19'-4**	15'-8**	22'-11"	21'-4"	19'-8**	15'-8**	21'-3"	19'-9"	18'-9**	15'-8**	22'-4"	20'-8"	19'-8**	15'-8**	70				18'-8"	14'-11"
14"	20	22'-2"	18'-3**	15'-2**	12'-1**	23'-3"	18'-3**	15'-2**	12'-1**	21'-5"	18'-3**	15'-2**	12'-1**	22'-5"	18'-3**	15'-2**	12'-1**	20	23'-3"	17'-4"	14'-5"	11'-5"	
	40S	22'-9"	19'-11"	18'-2"	16'-3**	23'-1"	19'-11"	18'-2"	16'-3**	22'-1"	19'-11"	18'-2"	16'-3**	23'-1"	19'-11"	18'-2"	16'-3**	40S					14'-11"
	400	22'-9"	21'-1**	17'-6**	14'-0**	23'-11"	21'-1**	17'-6**	14'-0**	22'-1"	20'-6**	17'-6**	14'-0**	23'-2"	21'-1**	17'-6**	14'-0**	400			20'-2"	16'-9"	13'-4"
	40	23'-3"	21'-8"	20'-6**	16'-4**	24'-5"	22'-9**	20'-6**	16'-4**	22'-7"	20'-11"	19'-11**	16'-4**	23'-8"	22'-0"	20'-6**	16'-4**	40			22'-6"	18'-8"	14'-11"
	60S	23'-7"	22'-0"	20'-3**	16'-4**	24'-10"	22'-3"	20'-3**	16'-4**	23'-0"	21'-4"	20'-3**	16'-4**	24'-1"	22'-3"	20'-3**	16'-4**	60S				18'-8"	14'-11"
	70	24'-3"	22'-7**	20'-6**	16'-4**	25'-6"	23'-9**	20'-6**	16'-4**	23'-8"	21'-11"	20'-6**	16'-4**	24'-10"	23'-0**	20'-6**	16'-4**	70			22'-6"	18'-8"	14'-11"
16"	20	24'-9"	21'-6"	19'-7**	17'-0**	24'-10"	21'-6"	19'-7**	17'-0**	24'-0"	21'-6"	19'-7**	17'-0**	24'-10"	21'-6"	19'-7**	17'-0**	20				18'-8"	14'-11"
	400	24'-10"	21'-1**	17'-6**	14'-0**	26'-1"	21'-1**	17'-6**	14'-0**	24'-0"	21'-1**	17'-6**	14'-0**	25'-3"	21'-1**	17'-6**	14'-0**	400			20'-2"	16'-9"	13'-4"
	40	25'-4"	23'-7**	21'-4**	17'-0**	26'-7"	24'-9**	21'-4**	17'-0**	24'-7"	22'-10**	21'-4**	17'-0**	25'-10"	23'-11**	21'-4**	17'-0**	40			22'-6"	18'-8"	14'-11"
	60S	25'-9"	23'-11**	21'-4**	17'-0**	27'-0"	24'-0**	21'-4**	17'-0**	25'-0"	23'-2**	21'-4**	17'-0**	26'-3"	24'-0**	21'-4**	17'-0**	60S			22'-6"	18'-8"	14'-11"
	70	26'-5"	24'-7**	21'-4**	17'-0**	27'-10"	25'-8**	21'-4**	17'-0**	25'-9"	23'-11**	21'-4**	17'-0**	27'-1"	25'-1**	21'-4**	17'-0**	70			22'-6"	18'-8"	14'-11"
	80S	27'-5"	25'-6"	24'-2**	19'-3**	28'-10"	26'-9"	25'-6**	21'-1**	26'-10"	24'-10"	23'-7**	19'-3**	28'-2"	26'-1"	24'-9**	21'-1**	80S				22'-8"	18'-1"
9-1/2"	20	17'-4"	16'-0**	13'-11**	11'-1**	18'-0"	16'-2**	13'-11**	11'-1**	16'-11"	16'-0**	13'-11**	11'-1**	17'-6"	16'-2**	13'-11**	11'-1**	20				25'-2"	20'-1"
	40S	17'-9"	15'-8"	14'-3"	12'-9"	18'-2"	15'-8"	14'-3"	12'-9"	17'-4"	15'-8"	14'-3"	12'-9"	18'-0"	15'-8"	14'-3"	12'-9"	40S					
	400	17'-9"	16'-8"	15'-9"	13'-4**	18'-7"	17'-5"	16'-0**	13'-4**	17'-4"	16'-4"	15'-9"	13'-4**	18'-0"	16'-11"	16'-0**	13'-4**	400					
	40	18'-1"	17'-1"	16'-3"	14'-11**	19'-0"	17'-8"	17'-0**	14'-11**	17'-8"	16'-8"	16'-0"	14'-11**	18'-5"	17'-3"	16'-7"	14'-11**	40					
	60S	18'-4"	17'-3"	16'-2**	13'-4**	19'-3"	17'-9"	16'-2**	13'-4**	17'-11"	16'-10"	16'-2**	13'-4**	18'-9"	17'-6"	16'-2**	13'-4**	60S					
	70	18'-10"	17'-7"	16'-11"	14'-11**	19'-9"	18'-5"	17'-7**	14'-11**	18'-5"	17'-3"	16'-7"	14'-11**	19'-3"	17'-11"	17'-2"	14'-11**	70					

*Web stiffeners are required at int. supports of continuous-spans when the int. bearing length is < 5 1/4" and the span on either side of the int. bearing is ≥ than:

40 PSF Live Load/35 PSF Dead Load				
20		15'-10"	13'-2"	10'-6"
40S				
400			16'-0"	12'-9"
40			16'-9"	13'-4"
60S			16'-1"	12'-10"
70			17'-5"	13'-11"
90				
20		17'-4"	14'-5"	11'-5"
40S				
400			16'-9"	13'-4"
40			18'-7"	14'-10"
60S				14'-11"
70			18'-8"	14'-11"
80S				16'-9"
90				20'-1"
20	23'-3"	17'-4"	14'-5"	11'-5"
40S				14'-11"
400		20'-2"	16'-9"	13'-4"
40		22'-6"	18'-8"	14'-11"
60S			18'-8"	14'-11"
70		22'-6"	18'-8"	14'-11"
80S			22'-8"	18'-1"
90				20'-1"
40S			18'-8"	14'-11"
400		20'-2"	16'-9"	13'-4"
40		22'-6"	18'-8"	14'-11"
60S			22'-6"	18'-8"
70			22'-6"	18'-8"
80S			22'-8"	18'-1"
90			25'-2"	20'-1"

Limit States Design (CANADA) - Floor Span Charts

Notes applicable to all spans:

1. Allowable spans shown are based on uniformly loaded I-Joists with 1³/₄" end bearing lengths and 3¹/₂" intermediate bearing lengths without the use of web stiffeners, except when indicated by bold number with * where web stiffeners are required at interior supports of continuous-spans when the interior bearing length is < 5 1/4" and the span on either side of the interior bearing is ≥ than the spans shown in the adjacent table. For applications with any of these other conditions, an engineering analysis may be required using the design properties found in this guide. Use appropriate software (e.g. Simpson Strong-Tie® Component Solutions™) or engineering analysis for other loading.
2. Design is to CSA O86-19 with the CCMC vibration concluding report dated September 4, 1997.
3. Simple Spans are for joists supported at each end only.
4. Continuous spans are for continuous joists spanning over three or more supports, where the shortest span is at least 50% of the longest span.
5. Continuous span lengths shown require adequate bottom flange lateral bracing.
6. Spans listed are clear distances between the face of supports.
7. Web stiffeners may be required for hangers.
8. Use in dry service conditions only.
9. Provide lateral support at points of bearing to prevent twisting of joists.
10. Spans are based on the controlling condition of: L/360 live load deflection, L/240 total load deflection, or the CCMC floor vibration criteria.
11. Floor sheathing shall conform to CSA O325. Subfloor adhesive shall adhere to requirements of CGSB Standard CAN-CGSB-71.26-M88.
12. Minimum bearing length to be 1-3/4" at ends and 3-1/2" at interior supports.
13. The ends of multiple span joists must be anchored to resist a factored uplift force of 10 psf x joist spacing x largest span (due to pattern loading).

PRODUCT & PERFORMANCE WARRANTY

Roseburg Forest Products warrants that its **RFPI®-Joists, RigidLam® laminated veneer lumber (LVL)** and **RigidRim® Rimboard** will be free from manufacturing errors and defects in workmanship and materials in accordance with our specifications.

Furthermore, we warrant that these products, when properly stored, installed and used in dry use service conditions, will meet or exceed our performance specifications for the expected life of the structure.

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