

General Design Notes

REVIEW LIMITATION:

1. K'N'H ENGINEERING IS RESPONSIBLE ONLY FOR THE STRUCTURAL ADEQUACY OF THE BEAM/BEAMS AND OTHER ENGINEERED WOOD PRODUCTS AS AN INDIVIDUAL BUILDING COMPONENT. THE STRUCTURAL CAPACITY OF THIS COMPONENT IS BASED ON LOADS, DESIGN CONDITIONS AND DIMENSIONS PROVIDED BY THE MANUFACTURER AND SHOWN ON THIS DRAWING. IT IS THE RESPONSIBILITY OF OTHERS TO ENSURE COMPONENT SUITABILITY AND TO VERIFY LOADS, DIMENSIONS, AND DESIGN CRITERIA.
2. THE ENGINEER OF RECORD AND CONTRACTOR MUST DESIGN AND PROVIDE ADEQUATE SUPPORT FOR LOAD(S) AT THE BEARINGS.
3. ALL LOADS ARE SPECIFIED BY OTHERS AND ARE SUBJECT TO APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
4. ALL SEALED DRAWINGS MUST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO FRAME FABRICATION.
5. THE DESIGN SOFTWARE IS SUPPLIED BY THE PLATE OR ENGINEERED WOOD PRODUCTS MANUFACTURERS. K'N'H ENGINEERING IS NOT RESPONSIBLE FOR ANY SOFTWARE ERRORS.

LUMBER:

1. LUMBER SHALL BE SEASONED AT TIME OF FABRICATION AND USED IN DRY SERVICE CONDITIONS UNLESS NOTED OTHERWISE.
2. LUMBER SHALL BE OF SIZE STATED WITH SPECIES AND GRADE EQUAL OR BETTER.
3. LUMBER SHALL NOT BE TREATED WITH FIRE RETARDANTS OR CORROSIVE CHEMICALS.

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The information contained on the design table was up-to-date at the time of printing. In keeping with its on-going product development policy, KNH Engineering reserves the right to discontinue or change the technical specifications or models to KNH's convenience, and without further notice or obligation on its behalf.

The use of Span Tables for Commercial Projects (NBC2020: Part 4). All projects within the scope of Part 4 of the National Building Code of Canada (NBC) must consider the effects of concentrated loads, as stipulated in article 4.1.5.9. Given the numerous possible permutations, the span tables listed in this document do not take into the effects of such concentrated loads into consideration, and must be considered by the Engineer using these tables.

Expiration date: 31 December 2026.

Maximum Spans



Glued and nailed subfloor with strongbacks / ceiling optional

$\Delta L \leq L/360$

Live Load			40 psf				40 psf				100 psf					
Dead Load			15 psf				36 psf				15 psf					
Spacing			12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"		
Subfloor ⁽⁹⁾			19/32"			23/32"	19/32"			23/32"	19/32"			23/32"		
Depth	Length	Series	Maximum span o.c. Required Strongback ⁽¹⁾													
9 ½" ◇	6' - 0"	OJ314 ◇	3x2	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None		
	8' - 0"			8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None			
	10' - 0"			10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	9' - 2" None			
	12' - 0"			12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	11' - 8" None	12' - 0" None	11' - 3" None	10' - 3" None	-----	
	14' - 0"			14' - 0" None	14' - 0" None	14' - 0" 1 - 2x4	13' - 6" 1 - 2x6	14' - 0" None	14' - 0" None	13' - 0" None	-----	12' - 9" None	-----	-----	-----	
	16' - 0"			16' - 0" 1 - 2x4	16' - 0" 1 - 2x6	15' - 0" 1 - 2x6	-----	16' - 0" 1 - 2x4	14' - 3" 1 - 2x4	-----	-----	-----	-----	-----	-----	
	18' - 0"	OJ418 ◇	4x2	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	18' - 0" 2 - 2x6	16' - 10" 1 - 2x6	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	17' - 3" 1 - 2x6	-----	-----	-----	-----		
11 ⅞"	6' - 0"	OJ314	3x2	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None		
	8' - 0"			8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None		
	10' - 0"			10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	
	12' - 0"			12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	11' - 8" None	10' - 3" None	
	14' - 0"			14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	13' - 3" None	14' - 0" None	12' - 10" None	-----	-----
	16' - 0"			16' - 0" None	16' - 0" 1 - 2x4	16' - 0" 1 - 2x4	15' - 4" 1 - 2x4	16' - 0" None	16' - 0" 1 - 2x4	14' - 10" None	-----	14' - 10" None	-----	-----	-----	
	18' - 0"	OJ315	3x2	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	16' - 11" 1 - 2x6	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	16' - 5" 1 - 2x4	-----	-----	-----	-----		
	20' - 0"	OJ418S ⁽¹⁰⁾	4x2	18' - 0" None	18' - 0" 1 - 2x4	18' - 0" 1 - 2x4	18' - 0" 2 - 2x4	18' - 0" None	18' - 0" 1 - 2x4	18' - 0" 1 - 2x4	16' - 8" 1 - 2x4	18' - 0" None	-----	-----	-----	
		OJ415	4x2	20' - 0" 2 - 2x4	20' - 0" 1 - 2x6	20' - 0" 2 - 2x6	19' - 1" 2 - 2x6	20' - 0" 2 - 2x4	20' - 0" 1 - 2x6	20' - 0" 2 - 2x6	19' - 5" 2 - 2x6	-----	-----	-----	-----	
	22' - 0"	OJ418S ⁽¹⁰⁾	4x2	20' - 0" 1 - 2x4	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 2 - 2x6	20' - 0" 1 - 2x4	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	-----	18' - 7" 1 - 2x4	-----	-----	
22' - 0"	OJ418	4x2	22' - 0" 1 - 2x6	22' - 0" 2 - 2x6	22' - 0" 2 - 2x8	20' - 2" 1 - 2x8	22' - 0" 1 - 2x6	22' - 0" 2 - 2x6	20' - 10" 2 - 2x6	-----	-----	-----	-----	-----		
14"	6' - 0"	OJ314	3x2	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None		
	8' - 0"			8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None		
	10' - 0"			10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None		
	12' - 0"			12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	11' - 0" None	
	14' - 0"			14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	12' - 10" None	-----	
	16' - 0"			16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	14' - 6" None	16' - 0" None	-----	-----	-----	
	18' - 0"	OJ315	3x2	18' - 0" None	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	18' - 0" None	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	16' - 1" None	17' - 9" None	-----	-----	-----	
	20' - 0"	OJ315	3x2	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 2 - 2x6	18' - 7" 1 - 2x6	20' - 0" 1 - 2x6	19' - 9" 1 - 2x6	-----	-----	-----	-----	-----	-----	
		OJ418S ⁽¹⁰⁾	4x2	20' - 0" None	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" None	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	-----	20' - 0" None	-----	-----	-----
	22' - 0"	OJ415	4x2	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" 2 - 2x6	21' - 8" 1 - 2x8	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	21' - 4" 2 - 2x6	-----	-----	-----	-----	-----	
	24' - 0"	OJ418	4x2	24' - 0" 1 - 2x6	24' - 0" 2 - 2x6	24' - 0" 2 - 2x8	22' - 11" 2 - 2x8	24' - 0" 1 - 2x6	24' - 0" 2 - 2x6	22' - 4" 2 - 2x6	-----	-----	-----	-----	-----	
	26' - 0"			26' - 0" 2 - 2x6	26' - 0" 2 - 2x8	24' - 10" 2 - 2x8	-----	26' - 0" 2 - 2x6	25' - 1" 2 - 2x8	-----	-----	-----	-----	-----		

Maximum Spans (continued)

Live Load				40 psf				40 psf				100 psf			
Dead Load				15 psf				36 psf				15 psf			
Spacing				12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
Subfloor ⁽⁹⁾				19/32"			23/32"	19/32"			23/32"	19/32"			23/32"
Depth	Length	Series		Maximum span o.c. Required Strongback ⁽¹⁾											
16"	6' - 0"	OJ314	3x2	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None	6' - 0" None
	8' - 0"			8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	8' - 0" None	
	10' - 0"			10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	10' - 0" None	
	12' - 0"			12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	12' - 0" None	<u>12' - 0"</u> None
	14' - 0"			14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	14' - 0" None	<u>13' - 8"</u> None	<u>12' - 2"</u> None
	16' - 0"			16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	16' - 0" None	15' - 6" None	16' - 0" None	14' - 11" None	-----	-----
	18' - 0"	OJ315	3x2	18' - 0" None	18' - 0" None	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	18' - 0" None	18' - 0" None	18' - 0" 1 - 2x6	<u>17' - 4"</u> None	18' - 0" None	<u>16' - 9"</u> None	-----	-----
	20' - 0"	OJ315	3x2	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	19' - 5" 1 - 2x6	-----	19' - 4" None	-----	-----	-----
		OJ418S ⁽¹⁰⁾	4x2	20' - 0" None	20' - 0" None	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" None	20' - 0" None	20' - 0" 1 - 2x6	<u>20' - 0"</u> 1 - 2x6	20' - 0" None	<u>18' - 10"</u> None	-----	-----
	22' - 0"	OJ418	4x2	22' - 0" None	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" None	22' - 0" 1 - 2x6	<u>22' - 0"</u> 1 - 2x6	<u>20' - 2"</u> 1 - 2x6	<u>22' - 0"</u> None	-----	-----	-----
	24' - 0"			24' - 0" 1 - 2x6	24' - 0" 1 - 2x6	24' - 0" 2 - 2x6	<u>24' - 0"</u> 2 - 2x6	24' - 0" 1 - 2x6	24' - 0" 1 - 2x6	<u>24' - 0"</u> 2 - 2x6	-----	<u>23' - 5"</u> 1 - 2x6	-----	-----	-----
	26' - 0"			26' - 0" 1 - 2x6	26' - 0" 2 - 2x6	26' - 0" 2 - 2x8	<u>25' - 5"</u> 2 - 2x8	26' - 0" 1 - 2x6	<u>26' - 0"</u> 2 - 2x6	<u>25' - 3"</u> 1 - 2x8	-----	-----	-----	-----	-----
	28' - 0"	OJ420	4x2	28' - 0" 2 - 2x6	28' - 0" 2 - 2x8	<u>28' - 0"</u> 1 - 2x10	<u>26' - 3"</u> 2 - 2x8	28' - 0" 2 - 2x6	<u>28' - 0"</u> 2 - 2x8	-----	-----	-----	-----	-----	-----
	30' - 0"			30' - 0" 2 - 2x8	30' - 0" 2 - 2x10	<u>28' - 6"</u> 2 - 2x10	-----	30' - 0" 2 - 2x8	<u>28' - 8"</u> 2 - 2x8	-----	-----	-----	-----	-----	

Notes:

- Strongbacks must be installed at mid-span to achieve the maximum spans indicated for the vibration criterion in section 9.23.4.3.(2) of the National Building Code of Canada (NBC). The 2x4's and 2x6's are considered to be in SPF #3/stud and the 2x8's and 2x10's, in SPF #1/#2.
- The spans are based on simple-span joists.
- The minimum bearing length is 1 1/2", **spans values in bold indicate that web stiffeners are required at the OSB end panel.**
- The maximum span is measured o.c. of bearings and is based on uniformly loaded joists.
- Dead load deflection is limited to L/360 and total load deflection is limited to L/240.
- Live load deflection is limited to **L/360**.
- Spans are based on limit states design and comply with NBC and CAN/CSA-O86 requirements.
- Refer to the appropriate sections of the Specifier Guide for installation guidelines and construction details.
- The considered subfloor is a standard 19/32" plywood or 1F20 OSB for 12", 16" and 19.2" o.c. spacing and standard 23/32" plywood or 1F24 OSB for 24" o.c. spacing and must be glued with adhesive per CAN/CGSB-71.26-M88 and nailed per NBC.
- S** = Limited inventory. Please contact your representative to determine quantities.
- ◇ = The 9 1/2 depth is not available in all areas. Please contact your local representative before specifying this depth in your design.

Tableau des portées maximales



Application résidentielle

Sous plancher cloué et collé avec liens continus / plafond facultatifs

$\Delta L \leq L/360$

Surcharge d'Utilisation			40 lb/pi²				40 lb/pi²				100 lb/pi²					
Charge permanente			15 lb/pi²				36 lb/pi²				15 lb/pi²					
Espacement			12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"		
Sous Plancher ⁽⁹⁾			19/32"			23/32"	19/32"			23/32"	19/32"			23/32"		
Hauteur	Longueur	Série	Portée c/c max Liens continus requis ⁽¹⁾													
9 ½" ◇	6' - 0"	OJ314 ◇	3x2	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	
	8' - 0"			8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun		
	10' - 0"			10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	9' - 2" Aucun		
	12' - 0"			12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	11' - 8" Aucun	12' - 0" Aucun	11' - 3" Aucun	10' - 3" Aucun	-----	
	14' - 0"			14' - 0" Aucun	14' - 0" Aucun	14' - 0" 1 - 2x4	13' - 6" 1 - 2x6	14' - 0" Aucun	14' - 0" Aucun	13' - 0" Aucun	-----	12' - 9" Aucun	-----	-----	-----	
	16' - 0"			16' - 0" 1 - 2x4	16' - 0" 1 - 2x6	15' - 0" 1 - 2x6	-----	16' - 0" 1 - 2x4	14' - 3" 1 - 2x4	-----	-----	-----	-----	-----	-----	
	18' - 0"	OJ418 ◇	4x2	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	18' - 0" 2 - 2x6	16' - 10" 1 - 2x6	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	17' - 3" 1 - 2x6	-----	-----	-----	-----	-----	
11 ⅞"	6' - 0"	OJ314	3x2	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	
	8' - 0"			8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	
	10' - 0"			10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	
	12' - 0"			12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	11' - 8" Aucun	10' - 3" Aucun	
	14' - 0"			14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	13' - 3" Aucun	14' - 0" Aucun	12' - 10" Aucun	-----	-----	
	16' - 0"			16' - 0" Aucun	16' - 0" 1 - 2x4	16' - 0" 1 - 2x4	15' - 4" 1 - 2x4	16' - 0" Aucun	16' - 0" 1 - 2x4	14' - 10" Aucun	-----	14' - 10" Aucun	-----	-----	-----	
	18' - 0"	OJ315	3x2	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	16' - 11" 1 - 2x6	18' - 0" 1 - 2x4	18' - 0" 1 - 2x6	16' - 5" 1 - 2x4	-----	-----	-----	-----		
	20' - 0"	OJ418S ⁽¹⁰⁾	4x2	18' - 0" Aucun	18' - 0" 1 - 2x4	18' - 0" 1 - 2x4	18' - 0" 2 - 2x4	18' - 0" Aucun	18' - 0" 1 - 2x4	18' - 0" 1 - 2x4	18' - 0" 1 - 2x4	16' - 8" 1 - 2x4	18' - 0" Aucun	-----	-----	-----
		OJ415	4x2	20' - 0" 2 - 2x4	20' - 0" 1 - 2x6	20' - 0" 2 - 2x6	19' - 1" 2 - 2x6	20' - 0" 2 - 2x4	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	19' - 5" 2 - 2x6	-----	-----	-----	-----	
22' - 0"	OJ418S ⁽¹⁰⁾	4x2	20' - 0" 1 - 2x4	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 2 - 2x6	20' - 0" 1 - 2x4	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	-----	18' - 7" 1 - 2x4	-----	-----	-----	
14"	6' - 0"	OJ314	3x2	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	
	8' - 0"			8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	
	10' - 0"			10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	
	12' - 0"			12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	11' - 0" Aucun	
	14' - 0"			14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	12' - 10" Aucun	-----	
	16' - 0"			16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	14' - 6" Aucun	16' - 0" Aucun	-----	-----	-----	
	18' - 0"	OJ315	3x2	18' - 0" Aucun	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	18' - 0" Aucun	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	16' - 1" Aucun	17' - 9" Aucun	-----	-----	-----	
	20' - 0"	OJ315	3x2	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 2 - 2x6	18' - 7" 1 - 2x6	20' - 0" 1 - 2x6	19' - 9" 1 - 2x6	-----	-----	-----	-----	-----	-----	
		OJ418S ⁽¹⁰⁾	4x2	20' - 0" Aucun	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" Aucun	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	-----	20' - 0" Aucun	-----	-----	-----
	22' - 0"	OJ415	4x2	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" 2 - 2x6	21' - 8" 1 - 2x8	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	21' - 4" 2 - 2x6	-----	-----	-----	-----	
	24' - 0"	OJ418	4x2	24' - 0" 1 - 2x6	24' - 0" 2 - 2x6	24' - 0" 2 - 2x8	22' - 11" 2 - 2x8	24' - 0" 1 - 2x6	24' - 0" 2 - 2x6	22' - 4" 2 - 2x6	-----	-----	-----	-----	-----	
	26' - 0"			26' - 0" 2 - 2x6	26' - 0" 2 - 2x8	24' - 10" 2 - 2x8	-----	26' - 0" 2 - 2x6	25' - 1" 2 - 2x6	-----	-----	-----	-----	-----		

Tableau des portées maximales (suite)

Surcharge d'Utilisation				40 lb/pi²				40 lb/pi²				100 lb/pi²			
Charge permanente				15 lb/pi²				36 lb/pi²				15 lb/pi²			
Espacement				12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
Sous Plancher ⁽⁹⁾				19/32"			23/32"	19/32"			23/32"	19/32"			23/32"
Hauteur	Longueur	Série		Portée c/c max Liens continus requis ⁽¹⁾											
16"	6' - 0"	OJ314	3x2	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun	6' - 0" Aucun
	8' - 0"			8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	8' - 0" Aucun	
	10' - 0"			10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	10' - 0" Aucun	
	12' - 0"			12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	12' - 0" Aucun	
	14' - 0"			14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	14' - 0" Aucun	13' - 8" Aucun	
	16' - 0"			16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	16' - 0" Aucun	15' - 6" Aucun	16' - 0" Aucun	14' - 11" Aucun	-----	
	18' - 0"	OJ315	3x2	18' - 0" Aucun	18' - 0" Aucun	18' - 0" 1 - 2x6	18' - 0" 1 - 2x6	18' - 0" Aucun	18' - 0" Aucun	18' - 0" 1 - 2x6	17' - 4" Aucun	18' - 0" Aucun	16' - 9" Aucun	-----	
	20' - 0"	OJ315	3x2	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	19' - 5" 1 - 2x6	-----	19' - 4" Aucun	-----	-----	
		OJ418S ⁽¹⁰⁾	4x2	20' - 0" Aucun	20' - 0" Aucun	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" Aucun	20' - 0" Aucun	20' - 0" 1 - 2x6	20' - 0" 1 - 2x6	20' - 0" Aucun	18' - 10" Aucun	-----	
	22' - 0"	OJ418	4x2	22' - 0" Aucun	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" Aucun	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" 1 - 2x6	22' - 0" Aucun	-----	-----
	24' - 0"			24' - 0" 1 - 2x6	24' - 0" 1 - 2x6	24' - 0" 2 - 2x6	24' - 0" 2 - 2x6	24' - 0" 1 - 2x6	24' - 0" 1 - 2x6	24' - 0" 2 - 2x6	-----	23' - 5" 1 - 2x6	-----		
	26' - 0"			26' - 0" 1 - 2x6	26' - 0" 2 - 2x6	26' - 0" 1 - 2x8	25' - 5" 2 - 2x8	26' - 0" 2 - 2x8	26' - 0" 2 - 2x6	25' - 3" 1 - 2x8	-----	-----	-----		
	28' - 0"	OJ420	4x2	28' - 0" 2 - 2x6	28' - 0" 2 - 2x8	28' - 0" 1 - 2x10	26' - 3" 2 - 2x8	28' - 0" 2 - 2x6	28' - 0" 2 - 2x8	-----	-----	-----	-----	-----	
	30' - 0"			30' - 0" 2 - 2x8	30' - 0" 2 - 2x10	28' - 6" 2 - 2x10	-----	30' - 0" 2 - 2x8	28' - 8" 2 - 2x8	-----	-----	-----	-----		

Remarques :

- Liens continus requis installés au centre de la portée pour atteindre les portées maximales indiquées conformément au critère de vibration, section 9.23.4.3.(2) du CNBC. Les 2x4 et 2x6 ont été considérés en SPF #3/stud, les 2x8 et 2x10 ont été considérés en SPF #1/#2.
- Les portées indiquées ont été établies en fonction de solives en portée simple.
- La longueur minimale d'appui est de 1½", les valeurs en caractères **gras** indiquent que des raidisseurs d'âme sont requis à l'appui de l'extrémité en OSB.
- La portée maximale est mesurée c/c des appuis et est calculée en fonction d'une charge uniformément répartie.
- La flèche sous la charge permanente est limitée à L/360 et la flèche sous la charge totale est limitée à L/240.
- La flèche sous la surcharge d'utilisation est limitée à **L/360**.
- Les portées indiquées ont été établies selon la méthode de calcul aux états limites et selon les exigences du CNBC et du CAN/CSA-O86
- Référer aux sections du Manuel Technique pour les lignes directrices d'installation et détails de construction.
- Le sous-plancher considéré est en contreplaqué standard 19/32" ou en OSB 1F20 pour les espacements de 12", 16" et 19.2" c/c et en contreplaqué standard 23/32" ou en OSB 1F24 pour les espacements de 24" c/c, il doit être collé avec de l'adhésif conforme au standard CGSB CAN-CGSB-71.26-M88 et cloué conformément au CNBC.
- S** = Inventaire en quantité limitée. Il est important d'appeler votre représentant pour qu'il puisse évaluer les quantités.
- ♦ = La solive 9 1/2 de hauteur n'est pas disponible dans tous les territoires. Veuillez contacter votre représentant local avant de spécifier cette hauteur lors de la conception de vos projets.