

Notes for Nascor I-Joist Spans (January 2016)

1. The maximum spans in the tables have been determined in accordance with CSA O86-09 "Engineering Design in Wood" and the vibration criteria outlined by the Canadian Construction Materials Centre (CCMC).
2. The maximum spans in the tables are clear spans measured between inside surfaces of end bearings.
3. The maximum spans in the tables are applicable for the following deflection limits:
 - Deflection due to live load is limited to $1/360$ of the span
 - Deflection due to total load is limited to $1/240$ of the span
4. Where the subfloor is field-glued to the I-joists the adhesive complying with standard ASTM D3498 "Standard Specification for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems" shall be utilized.
5. Where ceiling is specified in the tables it shall be a single layer of $1/2$ " thick gypsum board directly applied to the I-joists.
6. Where bridging is specified in the tables it shall consist of not less than 1x4 or 2x2 cross bridging.
 - 1 Bridging = 1 row of bridging located at mid-span
 - 3 Bridging = 3 rows, one row at mid-span and one row at each one-third of the span
7. Where blocking is specified in the tables it shall consist of an I-joist stub of the same depth as the floor joists.
 - 1 Blocking = 1 row of blocking located at mid-span
 - 3 Blocking = 3 rows, one row at mid-span and one row at each one-third of the span
8. Where strapping is specified in the tables it shall consist of 1x4 members.
 - 1 Strapping = 1 row of strapping located at mid-span
 - 3 Strapping = 3 rows, one row at mid-span and one row at each one-third of the span
9. Spans that are shaded require $2-1/2$ " end bearing; all others require $1-1/2$ " end bearing.
10. Span tables are reviewed, updated or re-confirmed at the first month of each year and at the time whenever updating is necessary.

SIMPLE SPAN: 40 PSF LL/ 15 PSF DL (L/360)

Joist Type	5/8" SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJ10	Bare	13'- 9"	15'- 1"	12'- 10"	14'- 3"	12'- 3"	13'- 9"	-	-
	Ceiling	14'- 2"	15'- 6"	13'- 2"	14'- 8"	12'- 8"	14'- 3"	-	-
	1 Bridging	14'- 5"	15'- 8"	13'- 5"	14'- 10"	12'- 11"	14'- 4"	-	-
	1 Bridging & 1 Strapping	15'- 0"	16'- 4"	14'- 1"	15'- 3"	13'- 6"	14'- 4"	-	-
	1 Bridging & Ceiling	15'- 5"	16'- 9"	14'- 5"	15'- 3"	13'- 10"	14'- 4"	-	-
	3 Bridging	15'- 0"	16'- 4"	14'- 1"	15'- 3"	13'- 6"	14'- 4"	-	-
	3 Bridging & 3 Strapping	16'- 2"	16'- 10"	15'- 2"	15'- 3"	14'- 4"	14'- 4"	-	-
	3 Bridging & Ceiling	16'- 6"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	-	-
	1 Blocking	14'- 8"	16'- 0"	13'- 9"	15'- 2"	13'- 3"	14'- 4"	-	-
	1 Blocking & 1 Strapping	15'- 7"	16'- 10"	14'- 7"	15'- 3"	14'- 0"	14'- 4"	-	-
	1 Blocking & Ceiling	15'- 11"	16'- 10"	15'- 0"	15'- 3"	14'- 4"	14'- 4"	-	-
	3 Blocking	15'- 7"	16'- 10"	14'- 7"	15'- 3"	14'- 0"	14'- 4"	-	-
	3 Blocking & 3 Strapping	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	-	-
	3 Blocking & Ceiling	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	-	-
NJ12	Bare	15'- 7"	17'- 0"	14'- 7"	16'- 1"	14'- 0"	15'- 6"	-	-
	Ceiling	16'- 1"	17'- 6"	15'- 0"	16'- 7"	14'- 5"	16'- 0"	-	-
	1 Bridging	16'- 5"	17'- 9"	15'- 4"	16'- 10"	14'- 9"	16'- 3"	-	-
	1 Bridging & 1 Strapping	17'- 2"	18'- 8"	16'- 1"	17'- 7"	15'- 6"	16'- 10"	-	-
	1 Bridging & Ceiling	17'- 7"	19'- 4"	16'- 6"	18'- 1"	15'- 10"	16'- 10"	-	-
	3 Bridging	17'- 2"	18'- 8"	16'- 1"	17'- 6"	15'- 5"	16'- 10"	-	-
	3 Bridging & 3 Strapping	18'- 10"	20'- 6"	17'- 5"	18'- 5"	16'- 9"	16'- 10"	-	-
	3 Bridging & Ceiling	19'- 4"	20'- 6"	17'- 10"	18'- 5"	16'- 10"	16'- 10"	-	-
	1 Blocking	16'- 10"	18'- 2"	15'- 9"	17'- 2"	15'- 1"	16'- 8"	-	-
	1 Blocking & 1 Strapping	17'- 11"	19'- 7"	16'- 9"	18'- 3"	16'- 1"	16'- 10"	-	-
	1 Blocking & Ceiling	18'- 5"	20'- 3"	17'- 2"	18'- 5"	16'- 6"	16'- 10"	-	-
	3 Blocking	17'- 10"	19'- 7"	16'- 9"	18'- 2"	16'- 1"	16'- 10"	-	-
	3 Blocking & 3 Strapping	20'- 6"	20'- 6"	18'- 5"	18'- 5"	16'- 10"	16'- 10"	-	-
	3 Blocking & Ceiling	20'- 6"	20'- 6"	18'- 5"	18'- 5"	16'- 10"	16'- 10"	-	-

SIMPLE SPAN: 40 PSF LL/ 15 PSF DL (L/360)

Joist Type	5/8" SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJH10	Bare	14'- 6"	15'- 8"	13'- 6"	14'- 9"	12'- 11"	14'- 3"	-	-
	Ceiling	14'- 10"	16'- 1"	13'- 10"	15'- 2"	13'- 3"	14'- 8"	-	-
	1 Blocking	15'- 6"	16'- 7"	14'- 6"	15'- 8"	13'- 11"	15'- 2"	-	-
	1 Blocking & 1 Strapping	16'- 4"	17'- 6"	15'- 4"	16'- 7"	14'- 8"	15'- 6"	-	-
	1 Blocking & Ceiling	16'- 8"	17'- 10"	15'- 8"	16'- 7"	15'- 0"	15'- 6"	-	-
	3 Blocking	16'- 4"	17'- 5"	15'- 3"	16'- 6"	14'- 8"	15'- 6"	-	-
	3 Blocking & 3 Strapping	18'- 2"	18'- 4"	16'- 7"	16'- 7"	15'- 6"	15'- 6"	-	-
	3 Blocking & Ceiling	18'- 4"	18'- 4"	16'- 7"	16'- 7"	15'- 6"	15'- 6"	-	-
NJH12	Bare	16'- 4"	17'- 6"	15'- 3"	16'- 6"	14'- 7"	16'- 0"	-	-
	Ceiling	16'- 9"	18'- 1"	15'- 8"	17'- 1"	15'- 0"	16'- 6"	-	-
	1 Blocking	17'- 6"	18'- 11"	16'- 5"	17'- 8"	15'- 9"	17'- 1"	-	-
	1 Blocking & 1 Strapping	18'- 9"	20'- 4"	17'- 5"	18'- 11"	16'- 8"	18'- 1"	-	-
	1 Blocking & Ceiling	19'- 3"	20'- 11"	17'- 9"	19'- 6"	17'- 1"	18'- 4"	-	-
	3 Blocking	18'- 9"	20'- 3"	17'- 5"	18'- 10"	16'- 8"	18'- 0"	-	-
	3 Blocking & 3 Strapping	21'- 11"	21'- 11"	19'- 10"	19'- 10"	18'- 4"	18'- 4"	-	-
	3 Blocking & Ceiling	21'- 11"	21'- 11"	19'- 10"	19'- 10"	18'- 4"	18'- 4"	-	-
NJH14	Bare	17'- 7"	19'- 2"	16'- 5"	17'- 10"	15'- 9"	17'- 3"	-	-
	Ceiling	18'- 2"	19'- 11"	16'- 11"	18'- 6"	16'- 2"	17'- 9"	-	-
	1 Blocking	19'- 3"	20'- 11"	17'- 9"	19'- 6"	17'- 1"	18'- 8"	-	-
	1 Blocking & 1 Strapping	21'- 0"	22'- 8"	19'- 3"	21'- 0"	18'- 3"	20'- 1"	-	-
	1 Blocking & Ceiling	21'- 7"	23'- 4"	19'- 10"	21'- 9"	18'- 10"	20'- 10"	-	-
	3 Blocking	20'- 11"	22'- 7"	19'- 3"	21'- 0"	18'- 2"	20'- 1"	-	-
	3 Blocking & 3 Strapping	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	-	-
	3 Blocking & Ceiling	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	-	-
NJH16	Bare	19'- 1"	20'- 10"	17'- 7"	19'- 4"	16'- 10"	18'- 6"	-	-
	Ceiling	19'- 10"	21'- 8"	18'- 2"	20'- 2"	17'- 5"	19'- 4"	-	-
	1 Blocking	21'- 2"	22'- 11"	19'- 5"	21'- 4"	18'- 6"	20'- 5"	-	-
	1 Blocking & 1 Strapping	23'- 2"	24'- 11"	21'- 3"	23'- 2"	20'- 1"	22'- 1"	-	-
	1 Blocking & Ceiling	23'- 10"	25'- 8"	21'- 11"	24'- 0"	20'- 9"	22'- 11"	-	-
	3 Blocking	23'- 2"	24'- 10"	21'- 3"	23'- 1"	20'- 1"	22'- 1"	-	-
	3 Blocking & 3 Strapping	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 1"	23'- 1"	-	-
	3 Blocking & Ceiling	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 1"	23'- 1"	-	-

SIMPLE SPAN: 40 PSF LL/ 15 PSF DL (L/360)

Joist Type	3/4" SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJ10	Bare	14'- 4"	15'- 11"	13'- 5"	15'- 0"	12'- 10"	14'- 4"	12'- 2"	13'- 2"
	Ceiling	14'- 9"	16'- 4"	13'- 9"	15'- 3"	13'- 2"	14'- 4"	12'- 6"	13'- 2"
	1 Bridging	14'- 10"	16'- 5"	13'- 11"	15'- 3"	13'- 4"	14'- 4"	12'- 9"	13'- 2"
	1 Bridging & 1 Strapping	15'- 5"	16'- 10"	14'- 6"	15'- 3"	13'- 11"	14'- 4"	13'- 2"	13'- 2"
	1 Bridging & Ceiling	15'- 10"	16'- 10"	14'- 10"	15'- 3"	14'- 3"	14'- 4"	13'- 2"	13'- 2"
	3 Bridging	15'- 5"	16'- 10"	14'- 5"	15'- 3"	13'- 10"	14'- 4"	13'- 2"	13'- 2"
	3 Bridging & 3 Strapping	16'- 5"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 2"	13'- 2"
	3 Bridging & Ceiling	16'- 9"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 2"	13'- 2"
	1 Blocking	15'- 2"	16'- 8"	14'- 2"	15'- 3"	13'- 7"	14'- 4"	13'- 0"	13'- 2"
	1 Blocking & 1 Strapping	15'- 11"	16'- 10"	14'- 11"	15'- 3"	14'- 4"	14'- 4"	13'- 2"	13'- 2"
	1 Blocking & Ceiling	16'- 3"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 2"	13'- 2"
	3 Blocking	15'- 11"	16'- 10"	14'- 11"	15'- 3"	14'- 4"	14'- 4"	13'- 2"	13'- 2"
	3 Blocking & 3 Strapping	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 2"	13'- 2"
	3 Blocking & Ceiling	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 2"	13'- 2"
	NJ12	Bare	16'- 4"	17'- 11"	15'- 3"	16'- 11"	14'- 7"	16'- 4"	13'- 10"
Ceiling		16'- 9"	18'- 6"	15'- 8"	17'- 5"	15'- 0"	16'- 10"	14'- 3"	15'- 0"
1 Bridging		17'- 0"	18'- 8"	15'- 11"	17'- 6"	15'- 3"	16'- 10"	14'- 6"	15'- 0"
1 Bridging & 1 Strapping		17'- 8"	19'- 6"	16'- 7"	18'- 3"	15'- 11"	16'- 10"	15'- 0"	15'- 0"
1 Bridging & Ceiling		18'- 1"	20'- 2"	17'- 0"	18'- 5"	16'- 3"	16'- 10"	15'- 0"	15'- 0"
3 Bridging		17'- 8"	19'- 6"	16'- 6"	18'- 3"	15'- 10"	16'- 10"	15'- 0"	15'- 0"
3 Bridging & 3 Strapping		19'- 1"	20'- 6"	17'- 9"	18'- 5"	16'- 10"	16'- 10"	15'- 0"	15'- 0"
3 Bridging & Ceiling		19'- 8"	20'- 6"	18'- 2"	18'- 5"	16'- 10"	16'- 10"	15'- 0"	15'- 0"
1 Blocking		17'- 4"	19'- 1"	16'- 3"	17'- 10"	15'- 7"	16'- 10"	14'- 10"	15'- 0"
1 Blocking & 1 Strapping		18'- 4"	20'- 4"	17'- 2"	18'- 5"	16'- 5"	16'- 10"	15'- 0"	15'- 0"
1 Blocking & Ceiling		18'- 10"	20'- 6"	17'- 7"	18'- 5"	16'- 10"	16'- 10"	15'- 0"	15'- 0"
3 Blocking		18'- 4"	20'- 3"	17'- 1"	18'- 5"	16'- 5"	16'- 10"	15'- 0"	15'- 0"
3 Blocking & 3 Strapping		20'- 6"	20'- 6"	18'- 5"	18'- 5"	16'- 10"	16'- 10"	15'- 0"	15'- 0"
3 Blocking & Ceiling		20'- 6"	20'- 6"	18'- 5"	18'- 5"	16'- 10"	16'- 10"	15'- 0"	15'- 0"

SIMPLE SPAN: 40 PSF LL/ 15 PSF DL (L/360)

Joist Type	3/4 " SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJH10	Bare	15'- 2"	16'- 6"	14'- 1"	15'- 7"	13'- 6"	15'- 0"	12'- 10"	13'- 10"
	Ceiling	15'- 6"	16'- 11"	14'- 6"	16'- 0"	13'- 10"	15'- 5"	13'- 2"	13'- 10"
	1 Blocking	15'- 11"	17'- 3"	14'- 11"	16'- 4"	14'- 4"	15'- 6"	13'- 8"	13'- 10"
	1 Blocking & 1 Strapping	16'- 9"	18'- 1"	15'- 8"	16'- 7"	15'- 1"	15'- 6"	13'- 10"	13'- 10"
	1 Blocking & Ceiling	17'- 1"	18'- 4"	16'- 0"	16'- 7"	15'- 4"	15'- 6"	13'- 10"	13'- 10"
	3 Blocking	16'- 8"	18'- 0"	15'- 8"	16'- 7"	15'- 0"	15'- 6"	13'- 10"	13'- 10"
	3 Blocking & 3 Strapping	18'- 3"	18'- 4"	16'- 7"	16'- 7"	15'- 6"	15'- 6"	13'- 10"	13'- 10"
	3 Blocking & Ceiling	18'- 4"	18'- 4"	16'- 7"	16'- 7"	15'- 6"	15'- 6"	13'- 10"	13'- 10"
NJH12	Bare	17'- 1"	18'- 7"	15'- 11"	17'- 5"	15'- 3"	16'- 9"	14'- 6"	16'- 1"
	Ceiling	17'- 6"	19'- 3"	16'- 4"	17'- 11"	15'- 7"	17'- 3"	14'- 10"	16'- 5"
	1 Blocking	18'- 1"	19'- 10"	16'- 11"	18'- 6"	16'- 3"	17'- 9"	15'- 5"	16'- 5"
	1 Blocking & 1 Strapping	19'- 4"	21'- 1"	17'- 10"	19'- 8"	17'- 1"	18'- 4"	16'- 3"	16'- 5"
	1 Blocking & Ceiling	19'- 10"	21'- 8"	18'- 3"	19'- 10"	17'- 5"	18'- 4"	16'- 5"	16'- 5"
	3 Blocking	19'- 3"	21'- 1"	17'- 10"	19'- 8"	17'- 1"	18'- 4"	16'- 3"	16'- 5"
	3 Blocking & 3 Strapping	21'- 9"	21'- 11"	19'- 10"	19'- 10"	18'- 4"	18'- 4"	16'- 5"	16'- 5"
	3 Blocking & Ceiling	21'- 11"	21'- 11"	19'- 10"	19'- 10"	18'- 4"	18'- 4"	16'- 5"	16'- 5"
NJH14	Bare	18'- 6"	20'- 5"	17'- 2"	19'- 0"	16'- 5"	18'- 1"	15'- 7"	17'- 4"
	Ceiling	19'- 2"	21'- 2"	17'- 7"	19'- 8"	16'- 10"	18'- 10"	16'- 0"	17'- 11"
	1 Blocking	20'- 1"	21'- 11"	18'- 5"	20'- 5"	17'- 7"	19'- 6"	16'- 9"	18'- 7"
	1 Blocking & 1 Strapping	21'- 6"	23'- 5"	19'- 10"	21'- 10"	18'- 9"	20'- 10"	17'- 8"	19'- 3"
	1 Blocking & Ceiling	22'- 1"	24'- 1"	20'- 5"	22'- 3"	19'- 4"	20'- 10"	18'- 1"	19'- 3"
	3 Blocking	21'- 6"	23'- 5"	19'- 9"	21'- 10"	18'- 9"	20'- 10"	17'- 8"	19'- 3"
	3 Blocking & 3 Strapping	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	19'- 3"	19'- 3"
	3 Blocking & Ceiling	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	19'- 3"	19'- 3"
NJH16	Bare	20'- 3"	22'- 3"	18'- 6"	20'- 8"	17'- 7"	19'- 8"	16'- 9"	18'- 8"
	Ceiling	20'- 11"	23'- 0"	19'- 2"	21'- 5"	18'- 1"	20'- 6"	17'- 2"	19'- 5"
	1 Blocking	22'- 0"	24'- 0"	20'- 3"	22'- 4"	19'- 2"	21'- 4"	18'- 0"	20'- 2"
	1 Blocking & 1 Strapping	23'- 8"	25'- 8"	21'- 10"	24'- 0"	20'- 8"	22'- 10"	19'- 4"	21'- 3"
	1 Blocking & Ceiling	24'- 4"	26'- 6"	22'- 6"	24'- 8"	21'- 4"	23'- 1"	19'- 11"	21'- 3"
	3 Blocking	23'- 8"	25'- 8"	21'- 10"	23'- 11"	20'- 8"	22'- 10"	19'- 4"	21'- 3"
	3 Blocking & 3 Strapping	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 1"	23'- 1"	21'- 3"	21'- 3"
	3 Blocking & Ceiling	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 1"	23'- 1"	21'- 3"	21'- 3"

SIMPLE SPAN: 40 PSF LL/ 20 PSF DL (L/360)

Joist Type	5/8" SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJ10	Bare	13'- 9"	15'- 1"	12'- 10"	14'- 3"	12'- 3"	13'- 9"	-	-
	Ceiling	14'- 2"	15'- 6"	13'- 2"	14'- 8"	12'- 8"	14'- 3"	-	-
	1 Bridging	14'- 5"	15'- 8"	13'- 5"	14'- 10"	12'- 11"	14'- 4"	-	-
	1 Bridging & 1 Strapping	15'- 0"	16'- 4"	14'- 1"	15'- 3"	13'- 6"	14'- 4"	-	-
	1 Bridging & Ceiling	15'- 5"	16'- 9"	14'- 5"	15'- 3"	13'- 10"	14'- 4"	-	-
	3 Bridging	15'- 0"	16'- 4"	14'- 1"	15'- 3"	13'- 6"	14'- 4"	-	-
	3 Bridging & 3 Strapping	16'- 2"	16'- 10"	15'- 2"	15'- 3"	14'- 4"	14'- 4"	-	-
	3 Bridging & Ceiling	16'- 6"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	-	-
	1 Blocking	14'- 8"	16'- 0"	13'- 9"	15'- 2"	13'- 3"	14'- 4"	-	-
	1 Blocking & 1 Strapping	15'- 7"	16'- 10"	14'- 7"	15'- 3"	14'- 0"	14'- 4"	-	-
	1 Blocking & Ceiling	15'- 11"	16'- 10"	15'- 0"	15'- 3"	14'- 4"	14'- 4"	-	-
	3 Blocking	15'- 7"	16'- 10"	14'- 7"	15'- 3"	14'- 0"	14'- 4"	-	-
	3 Blocking & 3 Strapping	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	-	-
	3 Blocking & Ceiling	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	-	-
NJ12	Bare	15'- 7"	17'- 0"	14'- 7"	16'- 1"	14'- 0"	15'- 6"	-	-
	Ceiling	16'- 1"	17'- 6"	15'- 0"	16'- 7"	14'- 5"	16'- 0"	-	-
	1 Bridging	16'- 5"	17'- 9"	15'- 4"	16'- 10"	14'- 9"	16'- 2"	-	-
	1 Bridging & 1 Strapping	17'- 2"	18'- 8"	16'- 1"	17'- 7"	15'- 6"	16'- 2"	-	-
	1 Bridging & Ceiling	17'- 7"	19'- 4"	16'- 6"	17'- 9"	15'- 10"	16'- 2"	-	-
	3 Bridging	17'- 2"	18'- 8"	16'- 1"	17'- 6"	15'- 5"	16'- 2"	-	-
	3 Bridging & 3 Strapping	18'- 10"	20'- 6"	17'- 5"	17'- 9"	16'- 2"	16'- 2"	-	-
	3 Bridging & Ceiling	19'- 4"	20'- 6"	17'- 9"	17'- 9"	16'- 2"	16'- 2"	-	-
	1 Blocking	16'- 10"	18'- 2"	15'- 9"	17'- 2"	15'- 1"	16'- 2"	-	-
	1 Blocking & 1 Strapping	17'- 11"	19'- 7"	16'- 9"	17'- 9"	16'- 1"	16'- 2"	-	-
	1 Blocking & Ceiling	18'- 5"	20'- 3"	17'- 2"	17'- 9"	16'- 2"	16'- 2"	-	-
	3 Blocking	17'- 10"	19'- 7"	16'- 9"	17'- 9"	16'- 1"	16'- 2"	-	-
	3 Blocking & 3 Strapping	20'- 6"	20'- 6"	17'- 9"	17'- 9"	16'- 2"	16'- 2"	-	-
	3 Blocking & Ceiling	20'- 6"	20'- 6"	17'- 9"	17'- 9"	16'- 2"	16'- 2"	-	-

SIMPLE SPAN: 40 PSF LL/ 20 PSF DL (L/360)

Joist Type	5/8" SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJH10	Bare	14'- 6"	15'- 8"	13'- 6"	14'- 9"	12'- 11"	14'- 3"	-	-
	Ceiling	14'- 10"	16'- 1"	13'- 10"	15'- 2"	13'- 3"	14'- 8"	-	-
	1 Blocking	15'- 6"	16'- 7"	14'- 6"	15'- 8"	13'- 11"	14'- 11"	-	-
	1 Blocking & 1 Strapping	16'- 4"	17'- 6"	15'- 4"	16'- 4"	14'- 8"	14'- 11"	-	-
	1 Blocking & Ceiling	16'- 8"	17'- 10"	15'- 8"	16'- 4"	14'- 11"	14'- 11"	-	-
	3 Blocking	16'- 4"	17'- 5"	15'- 3"	16'- 4"	14'- 8"	14'- 11"	-	-
	3 Blocking & 3 Strapping	18'- 2"	18'- 4"	16'- 4"	16'- 4"	14'- 11"	14'- 11"	-	-
	3 Blocking & Ceiling	18'- 4"	18'- 4"	16'- 4"	16'- 4"	14'- 11"	14'- 11"	-	-
NJH12	Bare	16'- 4"	17'- 6"	15'- 3"	16'- 6"	14'- 7"	16'- 0"	-	-
	Ceiling	16'- 9"	18'- 1"	15'- 8"	17'- 1"	15'- 0"	16'- 6"	-	-
	1 Blocking	17'- 6"	18'- 11"	16'- 5"	17'- 8"	15'- 9"	17'- 1"	-	-
	1 Blocking & 1 Strapping	18'- 9"	20'- 4"	17'- 5"	18'- 11"	16'- 8"	17'- 8"	-	-
	1 Blocking & Ceiling	19'- 3"	20'- 11"	17'- 9"	19'- 5"	17'- 1"	17'- 8"	-	-
	3 Blocking	18'- 9"	20'- 3"	17'- 5"	18'- 10"	16'- 8"	17'- 8"	-	-
	3 Blocking & 3 Strapping	21'- 11"	21'- 11"	19'- 5"	19'- 5"	17'- 8"	17'- 8"	-	-
	3 Blocking & Ceiling	21'- 11"	21'- 11"	19'- 5"	19'- 5"	17'- 8"	17'- 8"	-	-
NJH14	Bare	17'- 7"	19'- 2"	16'- 5"	17'- 10"	15'- 9"	17'- 3"	-	-
	Ceiling	18'- 2"	19'- 11"	16'- 11"	18'- 6"	16'- 2"	17'- 9"	-	-
	1 Blocking	19'- 3"	20'- 11"	17'- 9"	19'- 6"	17'- 1"	18'- 8"	-	-
	1 Blocking & 1 Strapping	21'- 0"	22'- 8"	19'- 3"	21'- 0"	18'- 3"	20'- 1"	-	-
	1 Blocking & Ceiling	21'- 7"	23'- 4"	19'- 10"	21'- 9"	18'- 10"	20'- 10"	-	-
	3 Blocking	20'- 11"	22'- 7"	19'- 3"	21'- 0"	18'- 2"	20'- 1"	-	-
	3 Blocking & 3 Strapping	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	-	-
	3 Blocking & Ceiling	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	-	-
NJH16	Bare	19'- 1"	20'- 10"	17'- 7"	19'- 4"	16'- 10"	18'- 6"	-	-
	Ceiling	19'- 10"	21'- 8"	18'- 2"	20'- 2"	17'- 5"	19'- 4"	-	-
	1 Blocking	21'- 2"	22'- 11"	19'- 5"	21'- 4"	18'- 6"	20'- 5"	-	-
	1 Blocking & 1 Strapping	23'- 2"	24'- 11"	21'- 3"	23'- 2"	20'- 1"	22'- 1"	-	-
	1 Blocking & Ceiling	23'- 10"	25'- 8"	21'- 11"	24'- 0"	20'- 9"	22'- 11"	-	-
	3 Blocking	23'- 2"	24'- 10"	21'- 3"	23'- 1"	20'- 1"	22'- 1"	-	-
	3 Blocking & 3 Strapping	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 0"	23'- 0"	-	-
	3 Blocking & Ceiling	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 0"	23'- 0"	-	-

SIMPLE SPAN: 40 PSF LL/ 20 PSF DL (L/360)

Joist Type	3/4 " SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJ10	Bare	14'- 4"	15'- 11"	13'- 5"	15'- 0"	12'- 10"	14'- 4"	12'- 2"	13'- 0"
	Ceiling	14'- 9"	16'- 4"	13'- 9"	15'- 3"	13'- 2"	14'- 4"	12'- 6"	13'- 0"
	1 Bridging	14'- 10"	16'- 5"	13'- 11"	15'- 3"	13'- 4"	14'- 4"	12'- 9"	13'- 0"
	1 Bridging & 1 Strapping	15'- 5"	16'- 10"	14'- 6"	15'- 3"	13'- 11"	14'- 4"	13'- 0"	13'- 0"
	1 Bridging & Ceiling	15'- 10"	16'- 10"	14'- 10"	15'- 3"	14'- 3"	14'- 4"	13'- 0"	13'- 0"
	3 Bridging	15'- 5"	16'- 10"	14'- 5"	15'- 3"	13'- 10"	14'- 4"	13'- 0"	13'- 0"
	3 Bridging & 3 Strapping	16'- 5"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 0"	13'- 0"
	3 Bridging & Ceiling	16'- 9"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 0"	13'- 0"
	1 Blocking	15'- 2"	16'- 8"	14'- 2"	15'- 3"	13'- 7"	14'- 4"	13'- 0"	13'- 0"
	1 Blocking & 1 Strapping	15'- 11"	16'- 10"	14'- 11"	15'- 3"	14'- 4"	14'- 4"	13'- 0"	13'- 0"
	1 Blocking & Ceiling	16'- 3"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 0"	13'- 0"
	3 Blocking	15'- 11"	16'- 10"	14'- 11"	15'- 3"	14'- 4"	14'- 4"	13'- 0"	13'- 0"
	3 Blocking & 3 Strapping	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 0"	13'- 0"
	3 Blocking & Ceiling	16'- 10"	16'- 10"	15'- 3"	15'- 3"	14'- 4"	14'- 4"	13'- 0"	13'- 0"
NJ12	Bare	16'- 4"	17'- 11"	15'- 3"	16'- 11"	14'- 7"	16'- 2"	13'- 10"	14'- 5"
	Ceiling	16'- 9"	18'- 6"	15'- 8"	17'- 5"	15'- 0"	16'- 2"	14'- 3"	14'- 5"
	1 Bridging	17'- 0"	18'- 8"	15'- 11"	17'- 6"	15'- 3"	16'- 2"	14'- 5"	14'- 5"
	1 Bridging & 1 Strapping	17'- 8"	19'- 6"	16'- 7"	17'- 9"	15'- 11"	16'- 2"	14'- 5"	14'- 5"
	1 Bridging & Ceiling	18'- 1"	20'- 2"	17'- 0"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"
	3 Bridging	17'- 8"	19'- 6"	16'- 6"	17'- 9"	15'- 10"	16'- 2"	14'- 5"	14'- 5"
	3 Bridging & 3 Strapping	19'- 1"	20'- 6"	17'- 9"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"
	3 Bridging & Ceiling	19'- 8"	20'- 6"	17'- 9"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"
	1 Blocking	17'- 4"	19'- 1"	16'- 3"	17'- 9"	15'- 7"	16'- 2"	14'- 5"	14'- 5"
	1 Blocking & 1 Strapping	18'- 4"	20'- 4"	17'- 2"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"
	1 Blocking & Ceiling	18'- 10"	20'- 6"	17'- 7"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"
	3 Blocking	18'- 4"	20'- 3"	17'- 1"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"
	3 Blocking & 3 Strapping	20'- 6"	20'- 6"	17'- 9"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"
	3 Blocking & Ceiling	20'- 6"	20'- 6"	17'- 9"	17'- 9"	16'- 2"	16'- 2"	14'- 5"	14'- 5"

SIMPLE SPAN: 40 PSF LL/ 20 PSF DL (L/36)

Joist Type	3/4 " SHEATHING	12" o/c		16" o/c		19.2" o/c		24" o/c	
		No Glue	Glue	No Glue	Glue	No Glue	Glue	No Glue	Glue
NJH10	Bare	15'- 2"	16'- 6"	14'- 1"	15'- 7"	13'- 6"	14'- 11"	12'- 10"	13'- 4"
	Ceiling	15'- 6"	16'- 11"	14'- 6"	16'- 0"	13'- 10"	14'- 11"	13'- 2"	13'- 4"
	1 Blocking	15'- 11"	17'- 3"	14'- 11"	16'- 4"	14'- 4"	14'- 11"	13'- 4"	13'- 4"
	1 Blocking & 1 Strapping	16'- 9"	18'- 1"	15'- 8"	16'- 4"	14'- 11"	14'- 11"	13'- 4"	13'- 4"
	1 Blocking & Ceiling	17'- 1"	18'- 4"	16'- 0"	16'- 4"	14'- 11"	14'- 11"	13'- 4"	13'- 4"
	3 Blocking	16'- 8"	18'- 0"	15'- 8"	16'- 4"	14'- 11"	14'- 11"	13'- 4"	13'- 4"
	3 Blocking & 3 Strapping	18'- 3"	18'- 4"	16'- 4"	16'- 4"	14'- 11"	14'- 11"	13'- 4"	13'- 4"
	3 Blocking & Ceiling	18'- 4"	18'- 4"	16'- 4"	16'- 4"	14'- 11"	14'- 11"	13'- 4"	13'- 4"
NJH12	Bare	17'- 1"	18'- 7"	15'- 11"	17'- 5"	15'- 3"	16'- 9"	14'- 6"	15'- 10"
	Ceiling	17'- 6"	19'- 3"	16'- 4"	17'- 11"	15'- 7"	17'- 3"	14'- 10"	15'- 10"
	1 Blocking	18'- 1"	19'- 10"	16'- 11"	18'- 6"	16'- 3"	17'- 8"	15'- 5"	15'- 10"
	1 Blocking & 1 Strapping	19'- 4"	21'- 1"	17'- 10"	19'- 5"	17'- 1"	17'- 8"	15'- 10"	15'- 10"
	1 Blocking & Ceiling	19'- 10"	21'- 8"	18'- 3"	19'- 5"	17'- 5"	17'- 8"	15'- 10"	15'- 10"
	3 Blocking	19'- 3"	21'- 1"	17'- 10"	19'- 5"	17'- 1"	17'- 8"	15'- 10"	15'- 10"
	3 Blocking & 3 Strapping	21'- 9"	21'- 11"	19'- 5"	19'- 5"	17'- 8"	17'- 8"	15'- 10"	15'- 10"
	3 Blocking & Ceiling	21'- 11"	21'- 11"	19'- 5"	19'- 5"	17'- 8"	17'- 8"	15'- 10"	15'- 10"
NJH14	Bare	18'- 6"	20'- 5"	17'- 2"	19'- 0"	16'- 5"	18'- 1"	15'- 7"	17'- 4"
	Ceiling	19'- 2"	21'- 2"	17'- 7"	19'- 8"	16'- 10"	18'- 10"	16'- 0"	17'- 11"
	1 Blocking	20'- 1"	21'- 11"	18'- 5"	20'- 5"	17'- 7"	19'- 6"	16'- 9"	18'- 6"
	1 Blocking & 1 Strapping	21'- 6"	23'- 5"	19'- 10"	21'- 10"	18'- 9"	20'- 10"	17'- 8"	19'- 1"
	1 Blocking & Ceiling	22'- 1"	24'- 1"	20'- 5"	22'- 3"	19'- 4"	20'- 10"	18'- 1"	19'- 1"
	3 Blocking	21'- 6"	23'- 5"	19'- 9"	21'- 10"	18'- 9"	20'- 10"	17'- 8"	19'- 1"
	3 Blocking & 3 Strapping	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	19'- 1"	19'- 1"
	3 Blocking & Ceiling	24'- 7"	24'- 7"	22'- 3"	22'- 3"	20'- 10"	20'- 10"	19'- 1"	19'- 1"
NJH16	Bare	20'- 3"	22'- 3"	18'- 6"	20'- 8"	17'- 7"	19'- 8"	16'- 9"	18'- 7"
	Ceiling	20'- 11"	23'- 0"	19'- 2"	21'- 5"	18'- 1"	20'- 6"	17'- 2"	19'- 4"
	1 Blocking	22'- 0"	24'- 0"	20'- 3"	22'- 4"	19'- 2"	21'- 4"	18'- 0"	20'- 2"
	1 Blocking & 1 Strapping	23'- 8"	25'- 8"	21'- 10"	24'- 0"	20'- 8"	22'- 10"	19'- 3"	20'- 2"
	1 Blocking & Ceiling	24'- 4"	26'- 6"	22'- 6"	24'- 8"	21'- 4"	23'- 0"	19'- 11"	20'- 2"
	3 Blocking	23'- 8"	25'- 8"	21'- 10"	23'- 11"	20'- 8"	22'- 10"	19'- 3"	20'- 2"
	3 Blocking & 3 Strapping	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 0"	23'- 0"	20'- 2"	20'- 2"
	3 Blocking & Ceiling	27'- 3"	27'- 3"	24'- 8"	24'- 8"	23'- 0"	23'- 0"	20'- 2"	20'- 2"