NORDIC STRUCTURES

Maximum Floor Spans – L/360

General Notes

1. The tabulated spans may differ slightly from software programs.
2. It is preferable to use a software to reflect true conditions (span(s), loads, floor assembly, etc.). Alternatively, other tables are available on demand.

Index

Number	Live load	Dead load	Spans	Deflection limit	Floor system	Sheathing	
						Thickness	Type
	(psf)	(psf)				(in.)	
S1.1	40	15	Simple	L/360	Nailed-glued	19/32	OSB
S1.2	40	15	Multiple	L/360	Nailed-glued	19/32	OSB
S2.1	40	15	Simple	L/360	Nailed-glued	5/8	OSB
S2.2	40	15	Multiple	L/360	Nailed-glued	5/8	OSB
S3.1	40	15	Simple	L/360	Nailed-glued	23/32	OSB
S3.2	40	15	Multiple	L/360	Nailed-glued	23/32	OSB
S4.1	40	15	Simple	L/360	Nailed-glued	3/4	OSB
S4.2	40	15	Multiple	L/360	Nailed-glued	3/4	OSB
S5.1	40	15	Simple	L/360	Nailed-glued	7/8	OSB
S5.2	40	15	Multiple	L/360	Nailed-glued	7/8	OSB
S6.1	40	15	Simple	L/360	Nailed-glued	5/8	Plywood
S6.2	40	15	Multiple	L/360	Nailed-glued	5/8	Plywood
S7.1	40	15	Simple	L/360	Nailed-glued	3/4	Plywood
S7.2	40	15	Multiple	L/360	Nailed-glued	3/4	Plywood
M1.1	40	20	Simple	L/360	Nailed-glued	19/32	OSB
M1.2	40	20	Multiple	L/360	Nailed-glued	19/32	OSB
M2.1	40	20	Simple	L/360	Nailed-glued	5/8	OSB
M2.2	40	20	Multiple	L/360	Nailed-glued	5/8	OSB
M3.1	40	20	Simple	L/360	Nailed-glued	23/32	OSB
M3.2	40	20	Multiple	L/360	Nailed-glued	23/32	OSB
M4.1	40	20	Simple	L/360	Nailed-glued	3/4	OSB
M4.2	40	20	Multiple	L/360	Nailed-glued	3/4	OSB
M5.1	40	20	Simple	L/360	Nailed-glued	7/8	OSB
M5.2	40	20	Multiple	L/360	Nailed-glued	7/8	OSB
M6.1	40	20	Simple	L/360	Nailed-glued	5/8	Plywood
M6.2	40	20	Multiple	L/360	Nailed-glued	5/8	Plywood
M7.1	40	20	Simple	L/360	Nailed-glued	3/4	Plywood
M7.2	40	20	Multiple	L/360	Nailed-glued	3/4	Plywood
H1.1	40	35	Simple	L/360	Nailed-glued	19/32	OSB
H1.2	40	35	Multiple	L/360	Nailed-glued	19/32	OSB
H2.1	40	35	Simple	L/360	Nailed-glued	5/8	OSB
H2.2	40	35	Multiple	L/360	Nailed-glued	5/8	OSB
H3.1	40	35	Simple	L/360	Nailed-glued	23/32	OSB
H3.2	40	35	Multiple	L/360	Nailed-glued	23/32	OSB
H4.1	40	35	Simple	L/360	Nailed-glued	3/4	OSB
H4.2	40	35	Multiple	L/360	Nailed-glued	3/4	OSB
H5.1	40	35	Simple	L/360	Nailed-glued	7/8	OSB
H5.2	40	35	Multiple	L/360	Nailed-glued	7/8	OSB
H6.1	40	35	Simple	L/360	Nailed-glued	5/8	Plywood
H6.2	40	35	Multiple	L/360	Nailed-glued	5/8	Plywood
H7.1	40	35	Simple	L/360	Nailed-glued	3/4	Plywood
H7.2	40	35	Multiple	L/360	Nailed-glued	3/4	Plywood

NORDIC STRUCTURES

Maximum Floor Spans – S1.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	19/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"	-
	NI-40x	15'-11"	15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	-
	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-0"	-
	NI-80	17'-0"	16'-0"	15'-6"	-	17'-5"	16'-5"	15'-10"	-
11-7/8"	NI-20	16'-9"	15'-10"	15'-4"	-	17'-3"	16'-4"	15'-10"	-
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-5"	17'-4"	16'-9"	-
	NI-60	18'-1"	17'-0"	16'-5"	-	18'-8"	17'-6"	16'-11"	-
	NI-80	19'-5"	17'-11"	17'-4"	-	20'-0"	18'-6"	17'-9"	-
	NI-90	19'-10"	18'-4"	17'-7"	-	20'-5"	18'-10"	18'-0"	-
14"	NI-40x	19'-9"	18'-4"	17'-8"	-	20'-6"	19'-0"	18'-3"	-
	NI-60	20'-1"	18'-7"	17'-10"	-	20'-10"	19'-4"	18'-6"	-
	NI-80	21'-7"	19'-11"	19'-1"	-	22'-3"	20'-7"	19'-8"	-
	NI-90	22'-0"	20'-4"	19'-5"	-	22'-8"	21'-0"	20'-0"	-
16"	NI-60	21'-11"	20'-4"	19'-5"	-	22'-8"	21'-1"	20'-2"	-
	NI-80	23'-6"	21'-9"	20'-9"	-	24'-3"	22'-5"	21'-5"	-
	NI-90	23'-11"	22'-1"	21'-2"	-	24'-8"	22'-10"	21'-10"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-9"	15'-5"	14'-6"	-	17'-1"	15'-5"	14'-6"	-
	NI-40x	17'-9"	16'-10"	16'-3"	-	18'-3"	17'-2"	16'-7"	-
	NI-60	17'-11"	16'-11"	16'-5"	-	18'-5"	17'-4"	16'-9"	-
	NI-80	19'-2"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	-
11-7/8"	NI-20	19'-4"	18'-0"	17'-5"	-	20'-0"	18'-8"	17'-6"	-
	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-5"	19'-11"	19'-1"	-
	NI-60	21'-1"	19'-7"	18'-9"	-	21'-8"	20'-2"	19'-4"	-
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	-
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	-
14"	NI-40x	23'-5"	21'-9"	20'-9"	-	24'-1"	22'-5"	21'-5"	-
	NI-60	23'-9"	22'-1"	21'-1"	-	24'-5"	22'-9"	21'-9"	-
	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	-
	NI-90	25'-10"	23'-11"	22'-10"	-	26'-5"	24'-6"	23'-5"	-
16"	NI-60	26'-3"	24'-3"	23'-2"	-	26'-11"	25'-1"	23'-11"	-
	NI-80	27'-11"	25'-10"	24'-8"	-	28'-7"	26'-6"	25'-4"	-
	NI-90	28'-5"	26'-3"	25'-0"	-	29'-0"	26'-11"	25'-8"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S1.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	19/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-5"	14'-7"	14'-2"	-	16'-0"	15'-1"	14'-8"	-
	NI-40x	16'-6"	15'-7"	15'-1"	-	17'-0"	16'-1"	15'-6"	-
	NI-60	16'-8"	15'-9"	15'-3"	-	17'-2"	16'-2"	15'-8"	-
	NI-80	17'-8"	16'-8"	16'-1"	-	18'-2"	17'-1"	16'-6"	-
11-7/8"	NI-20	17'-5"	16'-5"	15'-11"	-	18'-0"	17'-0"	16'-6"	-
	NI-40x	18'-9"	17'-6"	16'-11"	-	19'-5"	18'-1"	17'-5"	-
	NI-60	19'-0"	17'-8"	17'-1"	-	19'-8"	18'-3"	17'-7"	-
	NI-80	20'-5"	18'-11"	18'-1"	-	21'-1"	19'-6"	18'-8"	-
	NI-90	20'-10"	19'-3"	18'-5"	-	21'-6"	19'-11"	19'-0"	-
14"	NI-40x	20'-10"	19'-3"	18'-6"	-	21'-7"	20'-1"	19'-3"	-
	NI-60	21'-2"	19'-7"	18'-9"	-	21'-11"	20'-4"	19'-6"	-
	NI-80	22'-9"	21'-0"	20'-1"	-	23'-5"	21'-8"	20'-9"	-
	NI-90	23'-2"	21'-5"	20'-6"	-	23'-11"	22'-1"	21'-2"	-
16"	NI-60	23'-1"	21'-5"	20'-6"	-	23'-11"	22'-3"	21'-3"	-
	NI-80	24'-9"	22'-11"	21'-11"	-	25'-7"	23'-8"	22'-8"	-
	NI-90	25'-3"	23'-4"	22'-3"	-	26'-0"	24'-1"	23'-0"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-4"	16'-5"	15'-9"	-	17'-10"	16'-10"	15'-9"	-
	NI-40x	18'-7"	17'-5"	16'-10"	-	19'-1"	17'-10"	17'-3"	-
	NI-60	18'-9"	17'-7"	17'-0"	-	19'-4"	18'-0"	17'-4"	-
	NI-80	20'-1"	18'-8"	17'-10"	-	20'-7"	19'-2"	18'-4"	-
11-7/8"	NI-20	20'-3"	18'-10"	18'-0"	-	21'-0"	19'-7"	18'-7"	-
	NI-40x	21'-10"	20'-3"	19'-4"	-	22'-5"	20'-11"	19'-9"	-
	NI-60	22'-1"	20'-6"	19'-7"	-	22'-9"	21'-2"	20'-3"	-
	NI-80	23'-7"	21'-10"	20'-11"	-	24'-2"	22'-5"	21'-6"	-
	NI-90	24'-1"	22'-3"	21'-3"	-	24'-8"	22'-10"	21'-10"	-
14"	NI-40x	24'-6"	22'-9"	21'-8"	-	25'-3"	23'-6"	21'-8"	-
	NI-60	24'-11"	23'-1"	22'-0"	-	25'-7"	23'-10"	22'-9"	-
	NI-80	26'-7"	24'-7"	23'-6"	-	27'-2"	25'-3"	24'-2"	-
	NI-90	27'-1"	25'-1"	23'-11"	-	27'-8"	25'-8"	24'-6"	-
16"	NI-60	27'-5"	25'-5"	24'-3"	-	28'-2"	26'-3"	25'-1"	-
	NI-80	29'-3"	27'-1"	25'-10"	-	29'-11"	27'-10"	26'-7"	-
	NI-90	29'-9"	27'-6"	26'-3"	-	30'-5"	28'-3"	27'-0"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S2.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-1"	14'-3"	13'-10"	-	15'-7"	14'-9"	14'-3"	-
	NI-40x	16'-2"	15'-3"	14'-8"	-	16'-7"	15'-8"	15'-1"	-
	NI-60	16'-4"	15'-4"	14'-10"	-	16'-9"	15'-9"	15'-3"	-
	NI-80	17'-3"	16'-3"	15'-8"	-	17'-8"	16'-7"	16'-0"	-
11-7/8"	NI-20	17'-0"	16'-0"	15'-6"	-	17'-6"	16'-7"	16'-0"	-
	NI-40x	18'-2"	17'-1"	16'-6"	-	18'-9"	17'-6"	16'-11"	-
	NI-60	18'-5"	17'-3"	16'-8"	-	19'-0"	17'-8"	17'-1"	-
	NI-80	19'-9"	18'-3"	17'-7"	-	20'-4"	18'-10"	18'-0"	-
	NI-90	20'-2"	18'-8"	17'-10"	-	20'-9"	19'-2"	18'-4"	-
14"	NI-40x	20'-1"	18'-8"	17'-10"	-	20'-10"	19'-4"	18'-6"	-
	NI-60	20'-6"	18'-11"	18'-2"	-	21'-2"	19'-8"	18'-9"	-
	NI-80	21'-11"	20'-3"	19'-4"	-	22'-7"	20'-11"	20'-0"	-
	NI-90	22'-5"	20'-8"	19'-9"	-	23'-0"	21'-4"	20'-4"	-
16"	NI-60	22'-4"	20'-8"	19'-9"	-	23'-1"	21'-5"	20'-6"	-
	NI-80	23'-11"	22'-1"	21'-1"	-	24'-8"	22'-10"	21'-9"	-
	NI-90	24'-5"	22'-6"	21'-6"	-	25'-1"	23'-2"	22'-2"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-11"	15'-5"	14'-6"	-	17'-1"	15'-5"	14'-6"	-
	NI-40x	17'-11"	17'-0"	16'-5"	-	18'-5"	17'-4"	16'-7"	-
	NI-60	18'-2"	17'-1"	16'-6"	-	18'-8"	17'-6"	16'-10"	-
	NI-80	19'-5"	18'-0"	17'-5"	-	19'-10"	18'-5"	17'-8"	-
11-7/8"	NI-20	19'-7"	18'-2"	17'-6"	-	20'-3"	18'-8"	17'-6"	-
	NI-40x	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-3"	-
	NI-60	21'-4"	19'-9"	18'-11"	-	21'-11"	20'-5"	19'-6"	-
	NI-80	22'-9"	21'-1"	20'-2"	-	23'-3"	21'-8"	20'-8"	-
	NI-90	23'-3"	21'-6"	20'-6"	-	23'-9"	22'-0"	21'-0"	-
14"	NI-40x	23'-8"	21'-11"	20'-11"	-	24'-4"	22'-8"	21'-8"	-
	NI-60	24'-0"	22'-3"	21'-3"	-	24'-8"	22'-11"	21'-11"	-
	NI-80	25'-7"	23'-9"	22'-7"	-	26'-2"	24'-4"	23'-3"	-
	NI-90	26'-1"	24'-2"	23'-0"	-	26'-8"	24'-9"	23'-7"	-
16"	NI-60	26'-5"	24'-6"	23'-5"	-	27'-2"	25'-3"	24'-2"	-
	NI-80	28'-2"	26'-1"	24'-10"	-	28'-10"	26'-9"	25'-6"	-
	NI-90	28'-8"	26'-6"	25'-3"	-	29'-3"	27'-2"	25'-11"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S2.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-8"	14'-10"	14'-4"	-	16'-2"	15'-4"	14'-10"	-
	NI-40x	16'-9"	15'-10"	15'-3"	-	17'-3"	16'-3"	15'-8"	-
	NI-60	16'-11"	16'-0"	15'-5"	-	17'-5"	16'-5"	15'-10"	-
	NI-80	18'-0"	16'-11"	16'-4"	-	18'-6"	17'-4"	16'-8"	-
11-7/8"	NI-20	17'-8"	16'-8"	16'-1"	-	18'-4"	17'-3"	16'-8"	-
	NI-40x	19'-1"	17'-9"	17'-2"	-	19'-9"	18'-4"	17'-8"	-
	NI-60	19'-4"	17'-11"	17'-4"	-	20'-0"	18'-7"	17'-10"	-
	NI-80	20'-10"	19'-3"	18'-4"	-	21'-5"	19'-10"	18'-11"	-
	NI-90	21'-3"	19'-8"	18'-9"	-	21'-10"	20'-3"	19'-4"	-
14"	NI-40x	21'-2"	19'-8"	18'-9"	-	21'-11"	20'-5"	19'-6"	-
	NI-60	21'-7"	19'-11"	19'-1"	-	22'-4"	20'-8"	19'-10"	-
	NI-80	23'-2"	21'-5"	20'-5"	-	23'-10"	22'-1"	21'-1"	-
	NI-90	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-5"	-
16"	NI-60	23'-6"	21'-9"	20'-10"	-	24'-4"	22'-7"	21'-7"	-
	NI-80	25'-3"	23'-4"	22'-3"	-	26'-0"	24'-1"	23'-0"	-
	NI-90	25'-9"	23'-9"	22'-8"	-	26'-6"	24'-6"	23'-4"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-6"	16'-7"	15'-9"	-	18'-0"	16'-10"	15'-9"	-
	NI-40x	18'-9"	17'-7"	17'-0"	-	19'-4"	18'-0"	17'-3"	-
	NI-60	19'-0"	17'-8"	17'-1"	-	19'-6"	18'-2"	17'-6"	-
	NI-80	20'-4"	18'-11"	18'-1"	-	20'-10"	19'-4"	18'-6"	-
11-7/8"	NI-20	20'-5"	19'-0"	18'-3"	-	21'-2"	19'-10"	18'-7"	-
	NI-40x	22'-0"	20'-6"	19'-7"	-	22'-8"	21'-2"	19'-9"	-
	NI-60	22'-4"	20'-9"	19'-10"	-	22'-11"	21'-4"	20'-5"	-
	NI-80	23'-10"	22'-1"	21'-1"	-	24'-5"	22'-8"	21'-8"	-
	NI-90	24'-4"	22'-6"	21'-6"	-	24'-11"	23'-1"	22'-1"	-
14"	NI-40x	24'-9"	23'-0"	21'-8"	-	25'-5"	23'-9"	21'-8"	-
	NI-60	25'-1"	23'-4"	22'-3"	-	25'-10"	24'-1"	23'-0"	-
	NI-80	26'-10"	24'-10"	23'-8"	-	27'-5"	25'-6"	24'-4"	-
	NI-90	27'-4"	25'-4"	24'-1"	-	27'-11"	25'-11"	24'-9"	-
16"	NI-60	27'-8"	25'-8"	24'-6"	-	28'-5"	26'-6"	25'-4"	-
	NI-80	29'-6"	27'-4"	26'-1"	-	30'-2"	28'-1"	26'-9"	-
	NI-90	30'-1"	27'-10"	26'-6"	-	30'-8"	28'-6"	27'-2"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S3.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	23/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-9"	14'-10"	14'-4"	13'-5"	16'-2"	15'-4"	14'-6"	13'-5"
	NI-40x	16'-10"	15'-10"	15'-3"	14'-8"	17'-2"	16'-3"	15'-8"	15'-0"
	NI-60	16'-11"	16'-0"	15'-5"	14'-9"	17'-4"	16'-4"	15'-9"	15'-2"
	NI-80	18'-0"	16'-11"	16'-3"	15'-7"	18'-5"	17'-3"	16'-7"	15'-11"
11-7/8"	NI-20	17'-8"	16'-8"	16'-1"	15'-6"	18'-3"	17'-3"	16'-7"	16'-0"
	NI-40x	19'-1"	17'-9"	17'-1"	16'-5"	19'-8"	18'-3"	17'-6"	16'-10"
	NI-60	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-8"	17'-0"
	NI-80	20'-9"	19'-2"	18'-3"	17'-5"	21'-3"	19'-8"	18'-9"	17'-10"
	NI-90	21'-2"	19'-7"	18'-8"	17'-9"	21'-8"	20'-1"	19'-1"	18'-1"
14"	NI-40x	21'-2"	19'-7"	18'-8"	17'-9"	21'-10"	20'-3"	19'-4"	18'-4"
	NI-60	21'-6"	19'-11"	19'-0"	18'-0"	22'-2"	20'-7"	19'-8"	18'-8"
	NI-80	23'-1"	21'-4"	20'-3"	19'-3"	23'-8"	21'-11"	20'-10"	19'-9"
	NI-90	23'-6"	21'-9"	20'-8"	19'-7"	24'-1"	22'-4"	21'-3"	20'-1"
16"	NI-60	23'-5"	21'-8"	20'-8"	19'-7"	24'-2"	22'-5"	21'-5"	20'-4"
	NI-80	25'-1"	23'-2"	22'-1"	20'-11"	25'-9"	23'-10"	22'-9"	21'-6"
	NI-90	25'-7"	23'-7"	22'-6"	21'-3"	26'-3"	24'-3"	23'-1"	21'-11"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-6"	17'-5"	16'-7"	15'-3"	19'-0"	17'-8"	16'-7"	15'-3"
	NI-60	18'-9"	17'-7"	16'-10"	15'-7"	19'-2"	17'-11"	16'-10"	15'-7"
	NI-80	20'-0"	18'-7"	17'-10"	17'-1"	20'-6"	19'-1"	18'-2"	17'-5"
11-7/8"	NI-20	20'-1"	18'-8"	17'-6"	16'-2"	20'-7"	18'-8"	17'-6"	16'-2"
	NI-40x	21'-8"	20'-2"	19'-3"	17'-8"	22'-3"	20'-9"	19'-9"	17'-8"
	NI-60	21'-11"	20'-5"	19'-6"	18'-6"	22'-6"	21'-0"	20'-1"	18'-8"
	NI-80	23'-5"	21'-9"	20'-9"	19'-8"	23'-11"	22'-3"	21'-3"	20'-2"
	NI-90	23'-11"	22'-2"	21'-1"	20'-0"	24'-4"	22'-8"	21'-8"	20'-6"
14"	NI-40x	24'-3"	22'-7"	21'-6"	19'-5"	24'-11"	23'-3"	21'-9"	19'-5"
	NI-60	24'-8"	22'-11"	21'-10"	20'-8"	25'-3"	23'-7"	22'-7"	21'-4"
	NI-80	26'-3"	24'-5"	23'-3"	22'-0"	26'-10"	25'-0"	23'-10"	22'-7"
	NI-90	26'-9"	24'-10"	23'-8"	22'-5"	27'-4"	25'-5"	24'-3"	22'-11"
16"	NI-60	27'-1"	25'-2"	24'-0"	22'-9"	27'-9"	26'-0"	24'-10"	23'-6"
	NI-80	28'-10"	26'-10"	25'-6"	24'-2"	29'-6"	27'-6"	26'-3"	24'-10"
	NI-90	29'-5"	27'-3"	26'-0"	24'-6"	30'-0"	27'-11"	26'-8"	25'-2"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S3.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	23/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-4"	15'-5"	14'-11"	14'-4"	16'-10"	15'-11"	15'-5"	14'-7"
	NI-40x	17'-6"	16'-5"	15'-10"	15'-3"	17'-11"	16'-11"	16'-3"	15'-5"
	NI-60	17'-8"	16'-7"	16'-0"	15'-4"	18'-1"	17'-0"	16'-5"	15'-9"
	NI-80	18'-11"	17'-7"	16'-11"	16'-3"	19'-5"	17'-11"	17'-3"	16'-7"
11-7/8"	NI-20	18'-6"	17'-4"	16'-9"	16'-1"	19'-3"	17'-11"	17'-4"	16'-7"
	NI-40x	20'-1"	18'-7"	17'-9"	17'-1"	20'-8"	19'-3"	18'-4"	17'-6"
	NI-60	20'-4"	18'-10"	18'-0"	17'-3"	21'-0"	19'-6"	18'-7"	17'-8"
	NI-80	21'-10"	20'-2"	19'-3"	18'-3"	22'-5"	20'-9"	19'-9"	18'-9"
	NI-90	22'-4"	20'-7"	19'-7"	18'-7"	22'-10"	21'-2"	20'-2"	19'-1"
14"	NI-40x	22'-3"	20'-7"	19'-8"	18'-8"	23'-0"	21'-4"	20'-5"	19'-4"
	NI-60	22'-8"	20'-11"	20'-0"	18'-11"	23'-4"	21'-8"	20'-8"	19'-8"
	NI-80	24'-4"	22'-5"	21'-4"	20'-3"	24'-11"	23'-1"	22'-0"	20'-10"
	NI-90	24'-10"	22'-11"	21'-9"	20'-7"	25'-5"	23'-6"	22'-5"	21'-3"
16"	NI-60	24'-8"	22'-10"	21'-9"	20'-8"	25'-5"	23'-8"	22'-7"	21'-5"
	NI-80	26'-6"	24'-5"	23'-3"	22'-0"	27'-2"	25'-2"	24'-0"	22'-9"
	NI-90	27'-0"	24'-11"	23'-8"	22'-5"	27'-8"	25'-7"	24'-5"	23'-1"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-11"	16'-10"	15'-9"	14'-7"	18'-7"	16'-10"	15'-9"	14'-7"
	NI-40x	19'-5"	18'-1"	17'-3"	15'-5"	19'-11"	18'-7"	17'-3"	15'-5"
	NI-60	19'-7"	18'-3"	17'-6"	16'-10"	20'-2"	18'-9"	17'-11"	16'-11"
	NI-80	21'-0"	19'-6"	18'-7"	17'-9"	21'-6"	20'-0"	19'-1"	18'-1"
11-7/8"	NI-20	21'-1"	19'-8"	18'-7"	16'-7"	21'-10"	20'-4"	18'-7"	16'-7"
	NI-40x	22'-8"	21'-1"	19'-9"	17'-7"	23'-4"	21'-7"	19'-9"	17'-7"
	NI-60	23'-0"	21'-5"	20'-5"	19'-4"	23'-7"	22'-0"	21'-1"	20'-0"
	NI-80	24'-7"	22'-10"	21'-9"	20'-7"	25'-1"	23'-5"	22'-4"	21'-2"
	NI-90	25'-1"	23'-3"	22'-2"	21'-0"	25'-7"	23'-10"	22'-8"	21'-6"
14"	NI-40x	25'-5"	23'-8"	21'-8"	19'-4"	26'-1"	23'-9"	21'-8"	19'-4"
	NI-60	25'-10"	24'-0"	22'-11"	21'-8"	26'-6"	24'-9"	23'-8"	22'-2"
	NI-80	27'-7"	25'-7"	24'-5"	23'-1"	28'-2"	26'-3"	25'-1"	23'-9"
	NI-90	28'-1"	26'-1"	24'-10"	23'-6"	28'-8"	26'-8"	25'-6"	24'-1"
16"	NI-60	28'-4"	26'-5"	25'-2"	23'-10"	29'-1"	27'-3"	26'-0"	23'-11"
	NI-80	30'-3"	28'-1"	26'-9"	25'-4"	30'-11"	28'-10"	27'-6"	26'-1"
	NI-90	30'-10"	28'-7"	27'-3"	25'-9"	31'-5"	29'-4"	27'-11"	26'-5"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S4.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-11"	15'-0"	14'-6"	13'-5"	16'-5"	15'-5"	14'-6"	13'-5"
	NI-40x	17'-0"	16'-0"	15'-5"	14'-10"	17'-5"	16'-5"	15'-10"	15'-2"
	NI-60	17'-2"	16'-2"	15'-7"	14'-11"	17'-7"	16'-7"	16'-0"	15'-4"
	NI-80	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17'-5"	16'-9"	16'-1"
11-7/8"	NI-20	17'-11"	16'-11"	16'-3"	15'-8"	18'-7"	17'-5"	16'-10"	16'-2"
	NI-40x	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-9"	17'-0"
	NI-60	19'-7"	18'-2"	17'-6"	16'-9"	20'-2"	18'-9"	17'-11"	17'-2"
	NI-80	21'-1"	19'-6"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
14"	NI-40x	21'-5"	19'-11"	18'-11"	18'-0"	22'-1"	20'-7"	19'-7"	18'-7"
	NI-60	21'-10"	20'-2"	19'-3"	18'-3"	22'-6"	20'-10"	19'-11"	18'-10"
	NI-80	23'-5"	21'-7"	20'-7"	19'-5"	24'-0"	22'-3"	21'-2"	20'-0"
	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
16"	NI-60	23'-9"	22'-0"	21'-0"	19'-10"	24'-6"	22'-9"	21'-8"	20'-7"
	NI-80	25'-6"	23'-7"	22'-5"	21'-2"	26'-2"	24'-3"	23'-1"	21'-10"
	NI-90	26'-0"	24'-0"	22'-10"	21'-6"	26'-7"	24'-8"	23'-5"	22'-2"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-8"	17'-6"	16'-7"	15'-3"	19'-2"	17'-8"	16'-7"	15'-3"
	NI-60	18'-11"	17'-8"	16'-10"	15'-7"	19'-5"	18'-0"	16'-10"	15'-7"
	NI-80	20'-3"	18'-10"	17'-11"	17'-2"	20'-8"	19'-3"	18'-4"	17'-5"
11-7/8"	NI-20	20'-3"	18'-8"	17'-6"	16'-2"	20'-7"	18'-8"	17'-6"	16'-2"
	NI-40x	21'-10"	20'-4"	19'-5"	17'-8"	22'-5"	21'-0"	19'-9"	17'-8"
	NI-60	22'-1"	20'-7"	19'-8"	18'-7"	22'-8"	21'-2"	20'-3"	18'-8"
	NI-80	23'-8"	22'-0"	20'-11"	19'-10"	24'-1"	22'-6"	21'-6"	20'-4"
	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-8"
14"	NI-40x	24'-5"	22'-9"	21'-9"	19'-5"	25'-1"	23'-6"	21'-9"	19'-5"
	NI-60	24'-10"	23'-2"	22'-1"	20'-10"	25'-6"	23'-10"	22'-9"	21'-4"
	NI-80	26'-6"	24'-8"	23'-6"	22'-2"	27'-1"	25'-3"	24'-1"	22'-9"
	NI-90	27'-0"	25'-1"	23'-11"	22'-7"	27'-6"	25'-8"	24'-6"	23'-2"
16"	NI-60	27'-3"	25'-5"	24'-3"	22'-11"	28'-0"	26'-2"	25'-0"	23'-8"
	NI-80	29'-1"	27'-1"	25'-9"	24'-4"	29'-8"	27'-9"	26'-5"	25'-0"
	NI-90	29'-7"	27'-6"	26'-2"	24'-9"	30'-2"	28'-2"	26'-10"	25'-5"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S4.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-7"	15'-7"	15'-1"	14'-6"	17'-0"	16'-1"	15'-7"	14'-7"
	NI-40x	17'-8"	16'-8"	16'-1"	15'-5"	18'-2"	17'-1"	16'-6"	15'-5"
	NI-60	17'-10"	16'-10"	16'-2"	15'-6"	18'-4"	17'-3"	16'-7"	15'-11"
	NI-80	19'-2"	17'-9"	17'-1"	16'-5"	19'-8"	18'-3"	17'-6"	16'-9"
11-7/8"	NI-20	18'-10"	17'-7"	16'-11"	16'-3"	19'-6"	18'-2"	17'-6"	16'-7"
	NI-40x	20'-4"	18'-11"	18'-0"	17'-3"	21'-0"	19'-6"	18'-8"	17'-7"
	NI-60	20'-8"	19'-2"	18'-3"	17'-5"	21'-3"	19'-9"	18'-10"	17'-11"
	NI-80	22'-2"	20'-6"	19'-6"	18'-6"	22'-9"	21'-1"	20'-1"	19'-0"
	NI-90	22'-8"	20'-11"	19'-11"	18'-10"	23'-2"	21'-6"	20'-5"	19'-4"
14"	NI-40x	22'-7"	20'-11"	19'-11"	18'-11"	23'-4"	21'-8"	20'-8"	19'-4"
	NI-60	23'-0"	21'-3"	20'-3"	19'-2"	23'-8"	22'-0"	21'-0"	19'-11"
	NI-80	24'-8"	22'-9"	21'-8"	20'-6"	25'-3"	23'-5"	22'-4"	21'-1"
	NI-90	25'-2"	23'-3"	22'-1"	20'-11"	25'-9"	23'-10"	22'-9"	21'-6"
16"	NI-60	25'-0"	23'-2"	22'-1"	20'-11"	25'-10"	24'-0"	22'-11"	21'-8"
	NI-80	26'-10"	24'-10"	23'-7"	22'-4"	27'-7"	25'-6"	24'-4"	23'-0"
	NI-90	27'-5"	25'-3"	24'-0"	22'-8"	28'-1"	26'-0"	24'-9"	23'-5"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-1"	16'-10"	15'-9"	14'-7"	18'-7"	16'-10"	15'-9"	14'-7"
	NI-40x	19'-7"	18'-3"	17'-3"	15'-5"	20'-1"	18'-9"	17'-3"	15'-5"
	NI-60	19'-10"	18'-5"	17'-8"	16'-11"	20'-4"	19'-0"	18'-2"	16'-11"
	NI-80	21'-3"	19'-9"	18'-10"	17'-10"	21'-8"	20'-2"	19'-3"	18'-3"
11-7/8"	NI-20	21'-3"	19'-10"	18'-7"	16'-7"	22'-0"	20'-4"	18'-7"	16'-7"
	NI-40x	22'-11"	21'-4"	19'-9"	17'-7"	23'-6"	21'-7"	19'-9"	17'-7"
	NI-60	23'-2"	21'-7"	20'-7"	19'-6"	23'-10"	22'-3"	21'-3"	20'-2"
	NI-80	24'-9"	23'-0"	21'-11"	20'-9"	25'-4"	23'-7"	22'-6"	21'-4"
	NI-90	25'-3"	23'-6"	22'-4"	21'-2"	25'-9"	24'-0"	22'-11"	21'-8"
14"	NI-40x	25'-7"	23'-9"	21'-8"	19'-4"	26'-4"	23'-9"	21'-8"	19'-4"
	NI-60	26'-0"	24'-3"	23'-1"	21'-10"	26'-8"	25'-0"	23'-10"	22'-2"
	NI-80	27'-9"	25'-10"	24'-7"	23'-3"	28'-5"	26'-6"	25'-3"	23'-11"
	NI-90	28'-4"	26'-4"	25'-1"	23'-8"	28'-11"	26'-11"	25'-8"	24'-4"
16"	NI-60	28'-7"	26'-8"	25'-5"	23'-11"	29'-4"	27'-6"	26'-3"	23'-11"
	NI-80	30'-6"	28'-4"	27'-0"	25'-6"	31'-2"	29'-1"	27'-9"	26'-3"
	NI-90	31'-1"	28'-10"	27'-6"	25'-11"	31'-8"	29'-7"	28'-2"	26'-8"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S5.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	7/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-8"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	17'-9"	16'-9"	16'-2"	15'-3"	18'-2"	17'-2"	16'-6"	15'-3"
	NI-60	17'-11"	16'-11"	16'-3"	15'-7"	18'-5"	17'-3"	16'-8"	15'-7"
	NI-80	19'-3"	17'-10"	17'-2"	16'-5"	19'-8"	18'-3"	17'-6"	16'-9"
11-7/8"	NI-20	18'-11"	17'-8"	17'-0"	16'-2"	19'-7"	18'-3"	17'-6"	16'-2"
	NI-40x	20'-5"	19'-0"	18'-1"	17'-3"	21'-0"	19'-7"	18'-8"	17'-8"
	NI-60	20'-8"	19'-3"	18'-4"	17'-5"	21'-3"	19'-10"	18'-11"	17'-10"
	NI-80	22'-2"	20'-7"	19'-7"	18'-5"	22'-8"	21'-1"	20'-1"	18'-11"
	NI-90	22'-8"	21'-0"	19'-11"	18'-9"	23'-2"	21'-6"	20'-5"	19'-3"
14"	NI-40x	22'-7"	21'-0"	20'-0"	18'-10"	23'-3"	21'-8"	20'-8"	19'-5"
	NI-60	23'-0"	21'-4"	20'-4"	19'-2"	23'-8"	22'-0"	21'-0"	19'-10"
	NI-80	24'-8"	22'-10"	21'-8"	20'-5"	25'-3"	23'-5"	22'-4"	21'-0"
	NI-90	25'-2"	23'-3"	22'-1"	20'-10"	25'-8"	23'-10"	22'-8"	21'-5"
16"	NI-60	25'-1"	23'-3"	22'-1"	20'-10"	25'-9"	24'-0"	22'-11"	21'-7"
	NI-80	26'-10"	24'-10"	23'-7"	22'-3"	27'-6"	25'-6"	24'-3"	22'-11"
	NI-90	27'-4"	25'-4"	24'-1"	22'-7"	27'-11"	25'-11"	24'-8"	23'-3"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	19'-4"	17'-8"	16'-7"	15'-3"	19'-6"	17'-8"	16'-7"	15'-3"
	NI-60	19'-7"	18'-0"	16'-10"	15'-7"	19'-11"	18'-0"	16'-10"	15'-7"
	NI-80	20'-11"	19'-7"	18'-8"	17'-5"	21'-4"	20'-0"	18'-10"	17'-5"
11-7/8"	NI-20	20'-7"	18'-8"	17'-6"	16'-2"	20'-7"	18'-8"	17'-6"	16'-2"
	NI-40x	22'-7"	21'-1"	19'-9"	17'-8"	23'-2"	21'-2"	19'-9"	17'-8"
	NI-60	22'-10"	21'-4"	20'-3"	18'-8"	23'-5"	21'-7"	20'-3"	18'-8"
	NI-80	24'-5"	22'-9"	21'-9"	20'-6"	24'-11"	23'-4"	22'-3"	20'-9"
	NI-90	24'-11"	23'-3"	22'-2"	20'-10"	25'-4"	23'-9"	22'-8"	21'-4"
14"	NI-40x	25'-2"	23'-7"	21'-9"	19'-5"	25'-10"	23'-10"	21'-9"	19'-5"
	NI-60	25'-7"	23'-11"	22'-10"	21'-4"	26'-3"	24'-7"	23'-1"	21'-4"
	NI-80	27'-4"	25'-6"	24'-4"	22'-11"	27'-10"	26'-1"	24'-11"	23'-6"
	NI-90	27'-10"	26'-0"	24'-9"	23'-4"	28'-4"	26'-7"	25'-4"	23'-11"
16"	NI-60	28'-1"	26'-3"	25'-1"	23'-8"	28'-9"	27'-0"	25'-8"	23'-9"
	NI-80	29'-11"	27'-11"	26'-8"	25'-1"	30'-6"	28'-7"	27'-4"	25'-10"
	NI-90	30'-6"	28'-5"	27'-1"	25'-6"	31'-0"	29'-1"	27'-9"	26'-2"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S5.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	7/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-4"	16'-4"	15'-9"	14'-7"	17'-10"	16'-10"	15'-9"	14'-7"
	NI-40x	18'-7"	17'-5"	16'-9"	15'-5"	19'-2"	17'-10"	17'-2"	15'-5"
	NI-60	18'-10"	17'-7"	16'-11"	16'-2"	19'-4"	18'-0"	17'-4"	16'-7"
	NI-80	20'-3"	18'-9"	17'-10"	17'-1"	20'-8"	19'-3"	18'-4"	17'-5"
11-7/8"	NI-20	19'-10"	18'-6"	17'-8"	16'-7"	20'-7"	19'-3"	18'-4"	16'-7"
	NI-40x	21'-6"	19'-11"	19'-0"	17'-7"	22'-1"	20'-7"	19'-8"	17'-7"
	NI-60	21'-9"	20'-3"	19'-3"	18'-2"	22'-5"	20'-10"	19'-11"	18'-9"
	NI-80	23'-4"	21'-8"	20'-7"	19'-5"	23'-11"	22'-3"	21'-2"	19'-11"
	NI-90	23'-10"	22'-1"	21'-0"	19'-9"	24'-5"	22'-8"	21'-7"	20'-4"
14"	NI-40x	23'-10"	22'-1"	21'-1"	19'-4"	24'-6"	22'-10"	21'-8"	19'-4"
	NI-60	24'-3"	22'-6"	21'-5"	20'-2"	24'-11"	23'-2"	22'-1"	20'-11"
	NI-80	26'-0"	24'-1"	22'-10"	21'-6"	26'-7"	24'-8"	23'-6"	22'-2"
	NI-90	26'-6"	24'-6"	23'-4"	21'-11"	27'-1"	25'-2"	23'-11"	22'-7"
16"	NI-60	26'-5"	24'-6"	23'-4"	21'-11"	27'-2"	25'-3"	24'-1"	22'-9"
	NI-80	28'-3"	26'-2"	24'-11"	23'-5"	28'-11"	26'-11"	25'-7"	24'-2"
	NI-90	28'-10"	26'-8"	25'-4"	23'-10"	29'-6"	27'-4"	26'-1"	24'-6"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-7"	16'-10"	15'-9"	14'-7"	18'-7"	16'-10"	15'-9"	14'-7"
	NI-40x	20'-3"	18'-11"	17'-3"	15'-5"	20'-10"	18'-11"	17'-3"	15'-5"
	NI-60	20'-6"	19'-2"	18'-4"	16'-11"	21'-1"	19'-7"	18'-4"	16'-11"
	NI-80	22'-0"	20'-6"	19'-7"	18'-6"	22'-5"	21'-0"	20'-0"	18'-11"
11-7/8"	NI-20	21'-11"	20'-4"	18'-7"	16'-7"	22'-5"	20'-4"	18'-7"	16'-7"
	NI-40x	23'-8"	21'-7"	19'-9"	17'-7"	24'-3"	21'-7"	19'-9"	17'-7"
	NI-60	23'-11"	22'-5"	21'-5"	20'-2"	24'-7"	23'-1"	22'-1"	20'-2"
	NI-80	25'-7"	23'-11"	22'-9"	21'-6"	26'-2"	24'-6"	23'-4"	22'-1"
	NI-90	26'-1"	24'-4"	23'-3"	21'-11"	26'-7"	24'-11"	23'-9"	22'-5"
14"	NI-40x	26'-5"	23'-9"	21'-8"	19'-4"	27'-2"	23'-9"	21'-8"	19'-4"
	NI-60	26'-10"	25'-1"	23'-11"	22'-2"	27'-6"	25'-10"	24'-9"	22'-2"
	NI-80	28'-8"	26'-9"	25'-6"	24'-0"	29'-3"	27'-5"	26'-2"	24'-9"
	NI-90	29'-2"	27'-3"	26'-0"	24'-6"	29'-9"	27'-10"	26'-7"	25'-1"
16"	NI-60	29'-5"	27'-6"	26'-3"	23'-11"	30'-2"	28'-4"	26'-9"	23'-11"
	NI-80	31'-5"	29'-4"	28'-0"	26'-4"	32'-1"	30'-1"	28'-9"	27'-1"
	NI-90	32'-0"	29'-10"	28'-5"	26'-9"	32'-10"	30'-6"	29'-2"	27'-6"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S6.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"	-
	NI-40x	15'-11"	15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	-
	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-1"	-
	NI-80	17'-1"	16'-1"	15'-6"	-	17'-5"	16'-5"	15'-10"	-
11-7/8"	NI-20	16'-9"	15'-10"	15'-4"	-	17'-4"	16'-4"	15'-10"	-
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-6"	17'-4"	16'-9"	-
	NI-60	18'-1"	17'-0"	16'-5"	-	18'-9"	17'-6"	16'-11"	-
	NI-80	19'-6"	18'-0"	17'-4"	-	20'-1"	18'-7"	17'-9"	-
	NI-90	19'-11"	18'-4"	17'-8"	-	20'-5"	18'-11"	18'-1"	-
14"	NI-40x	19'-10"	18'-4"	17'-8"	-	20'-6"	19'-1"	18'-3"	-
	NI-60	20'-2"	18'-8"	17'-11"	-	20'-10"	19'-4"	18'-6"	-
	NI-80	21'-8"	20'-0"	19'-1"	-	22'-4"	20'-8"	19'-9"	-
	NI-90	22'-1"	20'-5"	19'-6"	-	22'-9"	21'-0"	20'-1"	-
16"	NI-60	22'-0"	20'-4"	19'-6"	-	22'-9"	21'-1"	20'-2"	-
	NI-80	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-6"	-
	NI-90	24'-1"	22'-2"	21'-2"	-	24'-9"	22'-11"	21'-10"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-9"	15'-5"	14'-6"	-	17'-1"	15'-5"	14'-6"	-
	NI-40x	17'-9"	16'-10"	16'-3"	-	18'-2"	17'-2"	16'-7"	-
	NI-60	17'-11"	16'-11"	16'-5"	-	18'-5"	17'-4"	16'-9"	-
	NI-80	19'-3"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	-
11-7/8"	NI-20	19'-4"	18'-0"	17'-4"	-	20'-0"	18'-8"	17'-6"	-
	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-5"	19'-11"	19'-1"	-
	NI-60	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-3"	-
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	-
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	-
14"	NI-40x	23'-5"	21'-8"	20'-9"	-	24'-0"	22'-5"	21'-5"	-
	NI-60	23'-9"	22'-0"	21'-0"	-	24'-5"	22'-8"	21'-8"	-
	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	-
	NI-90	25'-10"	23'-11"	22'-9"	-	26'-5"	24'-6"	23'-4"	-
16"	NI-60	26'-2"	24'-3"	23'-2"	-	26'-11"	25'-0"	23'-11"	-
	NI-80	27'-11"	25'-10"	24'-7"	-	28'-7"	26'-6"	25'-3"	-
	NI-90	28'-5"	26'-3"	25'-0"	-	29'-0"	26'-11"	25'-8"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S6.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-6"	14'-7"	14'-2"	-	16'-0"	15'-1"	14'-7"	-
	NI-40x	16'-7"	15'-7"	15'-1"	-	17'-0"	16'-1"	15'-6"	-
	NI-60	16'-9"	15'-9"	15'-3"	-	17'-2"	16'-2"	15'-8"	-
	NI-80	17'-9"	16'-8"	16'-2"	-	18'-3"	17'-1"	16'-6"	-
11-7/8"	NI-20	17'-5"	16'-5"	15'-11"	-	18'-0"	17'-0"	16'-6"	-
	NI-40x	18'-10"	17'-6"	16'-11"	-	19'-5"	18'-1"	17'-5"	-
	NI-60	19'-1"	17'-9"	17'-1"	-	19'-9"	18'-4"	17'-7"	-
	NI-80	20'-6"	19'-0"	18'-2"	-	21'-2"	19'-7"	18'-8"	-
	NI-90	21'-0"	19'-4"	18'-6"	-	21'-7"	19'-11"	19'-1"	-
14"	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-7"	20'-1"	19'-3"	-
	NI-60	21'-3"	19'-8"	18'-10"	-	22'-0"	20'-5"	19'-6"	-
	NI-80	22'-10"	21'-1"	20'-2"	-	23'-6"	21'-9"	20'-10"	-
	NI-90	23'-4"	21'-6"	20'-7"	-	24'-0"	22'-2"	21'-2"	-
16"	NI-60	23'-2"	21'-5"	20'-6"	-	24'-0"	22'-3"	21'-4"	-
	NI-80	24'-11"	23'-0"	21'-11"	-	25'-8"	23'-9"	22'-8"	-
	NI-90	25'-5"	23'-5"	22'-4"	-	26'-2"	24'-2"	23'-1"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-3"	16'-4"	15'-9"	-	17'-9"	16'-10"	15'-9"	-
	NI-40x	18'-7"	17'-5"	16'-10"	-	19'-1"	17'-10"	17'-3"	-
	NI-60	18'-9"	17'-6"	16'-11"	-	19'-3"	18'-0"	17'-4"	-
	NI-80	20'-2"	18'-8"	17'-10"	-	20'-7"	19'-2"	18'-4"	-
11-7/8"	NI-20	20'-2"	18'-9"	18'-0"	-	20'-11"	19'-6"	18'-7"	-
	NI-40x	21'-9"	20'-3"	19'-4"	-	22'-5"	20'-10"	19'-9"	-
	NI-60	22'-1"	20'-6"	19'-7"	-	22'-8"	21'-1"	20'-2"	-
	NI-80	23'-7"	21'-10"	20'-11"	-	24'-2"	22'-5"	21'-5"	-
	NI-90	24'-1"	22'-4"	21'-3"	-	24'-8"	22'-10"	21'-10"	-
14"	NI-40x	24'-6"	22'-8"	21'-8"	-	25'-2"	23'-5"	21'-8"	-
	NI-60	24'-10"	23'-1"	22'-0"	-	25'-7"	23'-9"	22'-9"	-
	NI-80	26'-7"	24'-7"	23'-5"	-	27'-2"	25'-3"	24'-1"	-
	NI-90	27'-1"	25'-1"	23'-11"	-	27'-8"	25'-8"	24'-6"	-
16"	NI-60	27'-5"	25'-5"	24'-3"	-	28'-2"	26'-3"	25'-1"	-
	NI-80	29'-3"	27'-1"	25'-10"	-	29'-11"	27'-10"	26'-6"	-
	NI-90	29'-9"	27'-7"	26'-3"	-	30'-5"	28'-3"	26'-11"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S7.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare, On centre spacing				1/2 in. gypsum ceiling, On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-10"	15'-0"	14'-5"	13'-5"	16'-4"	15'-5"	14'-6"	13'-5"
	NI-40x	16'-11"	15'-11"	15'-4"	14'-9"	17'-4"	16'-4"	15'-9"	15'-1"
	NI-60	17'-1"	16'-1"	15'-6"	14'-10"	17'-6"	16'-6"	15'-11"	15'-3"
	NI-80	18'-1"	17'-0"	16'-4"	15'-8"	18'-7"	17'-4"	16'-8"	16'-0"
11-7/8"	NI-20	17'-10"	16'-10"	16'-2"	15'-7"	18'-5"	17'-4"	16'-9"	16'-1"
	NI-40x	19'-3"	17'-10"	17'-2"	16'-6"	19'-10"	18'-5"	17'-8"	16'-11"
	NI-60	19'-6"	18'-1"	17'-4"	16'-8"	20'-1"	18'-8"	17'-10"	17'-1"
	NI-80	20'-11"	19'-4"	18'-5"	17'-7"	21'-5"	19'-10"	18'-11"	17'-11"
	NI-90	21'-4"	19'-9"	18'-9"	17'-10"	21'-10"	20'-3"	19'-3"	18'-3"
14"	NI-40x	21'-4"	19'-9"	18'-10"	17'-11"	22'-0"	20'-5"	19'-6"	18'-6"
	NI-60	21'-8"	20'-1"	19'-2"	18'-2"	22'-4"	20'-9"	19'-9"	18'-9"
	NI-80	23'-3"	21'-6"	20'-5"	19'-4"	23'-10"	22'-1"	21'-0"	19'-11"
	NI-90	23'-9"	21'-11"	20'-10"	19'-8"	24'-3"	22'-6"	21'-5"	20'-3"
16"	NI-60	23'-7"	21'-10"	20'-10"	19'-9"	24'-4"	22'-7"	21'-7"	20'-5"
	NI-80	25'-4"	23'-5"	22'-3"	21'-1"	26'-0"	24'-1"	22'-11"	21'-8"
	NI-90	25'-10"	23'-10"	22'-8"	21'-5"	26'-5"	24'-6"	23'-4"	22'-0"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap, On centre spacing				Mid-span blocking and 1/2 in. gypsum ceiling, On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-7"	17'-6"	16'-7"	15'-3"	19'-1"	17'-8"	16'-7"	15'-3"
	NI-60	18'-10"	17'-7"	16'-10"	15'-7"	19'-4"	18'-0"	16'-10"	15'-7"
	NI-80	20'-2"	18'-9"	17'-11"	17'-2"	20'-7"	19'-2"	18'-3"	17'-5"
11-7/8"	NI-20	20'-3"	18'-8"	17'-6"	16'-2"	20'-7"	18'-8"	17'-6"	16'-2"
	NI-40x	21'-9"	20'-3"	19'-4"	17'-8"	22'-4"	20'-11"	19'-9"	17'-8"
	NI-60	22'-0"	20'-6"	19'-7"	18'-7"	22'-7"	21'-1"	20'-2"	18'-8"
	NI-80	23'-6"	21'-10"	20'-10"	19'-9"	24'-0"	22'-5"	21'-4"	20'-3"
	NI-90	24'-0"	22'-4"	21'-3"	20'-1"	24'-6"	22'-10"	21'-9"	20'-7"
14"	NI-40x	24'-4"	22'-8"	21'-8"	19'-5"	25'-0"	23'-5"	21'-9"	19'-5"
	NI-60	24'-9"	23'-0"	22'-0"	20'-9"	25'-5"	23'-9"	22'-8"	21'-4"
	NI-80	26'-5"	24'-6"	23'-4"	22'-1"	27'-0"	25'-2"	24'-0"	22'-8"
	NI-90	26'-11"	25'-0"	23'-10"	22'-6"	27'-5"	25'-7"	24'-5"	23'-1"
16"	NI-60	27'-2"	25'-4"	24'-2"	22'-10"	27'-11"	26'-1"	24'-11"	23'-7"
	NI-80	29'-0"	26'-11"	25'-8"	24'-3"	29'-7"	27'-7"	26'-4"	24'-11"
	NI-90	29'-6"	27'-5"	26'-1"	24'-8"	30'-1"	28'-1"	26'-9"	25'-4"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – S7.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 15 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-5"	15'-7"	15'-0"	14'-5"	16'-11"	16'-0"	15'-6"	14'-7"
	NI-40x	17'-7"	16'-7"	16'-0"	15'-4"	18'-0"	17'-0"	16'-5"	15'-5"
	NI-60	17'-9"	16'-9"	16'-1"	15'-6"	18'-3"	17'-2"	16'-6"	15'-10"
	NI-80	19'-1"	17'-8"	17'-0"	16'-4"	19'-6"	18'-1"	17'-5"	16'-8"
11-7/8"	NI-20	18'-8"	17'-6"	16'-10"	16'-2"	19'-5"	18'-1"	17'-5"	16'-7"
	NI-40x	20'-3"	18'-9"	17'-11"	17'-2"	20'-10"	19'-5"	18'-6"	17'-7"
	NI-60	20'-6"	19'-0"	18'-2"	17'-4"	21'-2"	19'-8"	18'-9"	17'-10"
	NI-80	22'-0"	20'-4"	19'-5"	18'-4"	22'-7"	20'-11"	19'-11"	18'-11"
	NI-90	22'-6"	20'-9"	19'-9"	18'-9"	23'-1"	21'-4"	20'-4"	19'-3"
14"	NI-40x	22'-5"	20'-9"	19'-10"	18'-10"	23'-2"	21'-6"	20'-7"	19'-4"
	NI-60	22'-10"	21'-2"	20'-2"	19'-1"	23'-6"	21'-10"	20'-10"	19'-9"
	NI-80	24'-6"	22'-8"	21'-6"	20'-5"	25'-1"	23'-3"	22'-2"	21'-0"
	NI-90	25'-0"	23'-1"	21'-11"	20'-9"	25'-7"	23'-9"	22'-7"	21'-4"
16"	NI-60	24'-11"	23'-0"	21'-11"	20'-9"	25'-8"	23'-10"	22'-9"	21'-7"
	NI-80	26'-8"	24'-8"	23'-5"	22'-2"	27'-5"	25'-4"	24'-2"	22'-11"
	NI-90	27'-2"	25'-1"	23'-11"	22'-7"	27'-10"	25'-10"	24'-7"	23'-3"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-0"	16'-10"	15'-9"	14'-7"	18'-7"	16'-10"	15'-9"	14'-7"
	NI-40x	19'-6"	18'-2"	17'-3"	15'-5"	20'-0"	18'-9"	17'-3"	15'-5"
	NI-60	19'-9"	18'-4"	17'-7"	16'-11"	20'-3"	18'-11"	18'-1"	16'-11"
	NI-80	21'-1"	19'-8"	18'-9"	17'-9"	21'-7"	20'-1"	19'-2"	18'-2"
11-7/8"	NI-20	21'-2"	19'-9"	18'-7"	16'-7"	21'-11"	20'-4"	18'-7"	16'-7"
	NI-40x	22'-9"	21'-3"	19'-9"	17'-7"	23'-5"	21'-7"	19'-9"	17'-7"
	NI-60	23'-1"	21'-6"	20'-6"	19'-5"	23'-9"	22'-2"	21'-2"	20'-1"
	NI-80	24'-8"	22'-11"	21'-10"	20'-8"	25'-3"	23'-6"	22'-5"	21'-3"
	NI-90	25'-2"	23'-5"	22'-3"	21'-1"	25'-8"	23'-11"	22'-10"	21'-7"
14"	NI-40x	25'-6"	23'-9"	21'-8"	19'-4"	26'-3"	23'-9"	21'-8"	19'-4"
	NI-60	25'-11"	24'-2"	23'-0"	21'-9"	26'-7"	24'-11"	23'-9"	22'-2"
	NI-80	27'-8"	25'-9"	24'-6"	23'-2"	28'-3"	26'-5"	25'-2"	23'-10"
	NI-90	28'-3"	26'-2"	24'-11"	23'-7"	28'-9"	26'-10"	25'-7"	24'-3"
16"	NI-60	28'-6"	26'-6"	25'-3"	23'-11"	29'-3"	27'-4"	26'-2"	23'-11"
	NI-80	30'-5"	28'-3"	26'-11"	25'-5"	31'-1"	29'-0"	27'-8"	26'-2"
	NI-90	30'-11"	28'-9"	27'-4"	25'-10"	31'-7"	29'-5"	28'-1"	26'-7"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M1.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	19/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"	-
	NI-40x	15'-11"	15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	-
	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-0"	-
	NI-80	17'-0"	16'-0"	15'-6"	-	17'-5"	16'-5"	15'-10"	-
11-7/8"	NI-20	16'-9"	15'-10"	15'-4"	-	17'-3"	16'-4"	15'-10"	-
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-5"	17'-4"	16'-9"	-
	NI-60	18'-1"	17'-0"	16'-5"	-	18'-8"	17'-6"	16'-11"	-
	NI-80	19'-5"	17'-11"	17'-4"	-	20'-0"	18'-6"	17'-9"	-
	NI-90	19'-10"	18'-4"	17'-7"	-	20'-5"	18'-10"	18'-0"	-
14"	NI-40x	19'-9"	18'-4"	17'-8"	-	20'-6"	19'-0"	18'-3"	-
	NI-60	20'-1"	18'-7"	17'-10"	-	20'-10"	19'-4"	18'-6"	-
	NI-80	21'-7"	19'-11"	19'-1"	-	22'-3"	20'-7"	19'-8"	-
	NI-90	22'-0"	20'-4"	19'-5"	-	22'-8"	21'-0"	20'-0"	-
16"	NI-60	21'-11"	20'-4"	19'-5"	-	22'-8"	21'-1"	20'-2"	-
	NI-80	23'-6"	21'-9"	20'-9"	-	24'-3"	22'-5"	21'-5"	-
	NI-90	23'-11"	22'-1"	21'-2"	-	24'-8"	22'-10"	21'-10"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-9"	15'-5"	14'-6"	-	17'-1"	15'-5"	14'-6"	-
	NI-40x	17'-9"	16'-10"	16'-3"	-	18'-3"	17'-2"	16'-7"	-
	NI-60	17'-11"	16'-11"	16'-5"	-	18'-5"	17'-4"	16'-9"	-
	NI-80	19'-2"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	-
11-7/8"	NI-20	19'-4"	18'-0"	17'-5"	-	20'-0"	18'-8"	17'-6"	-
	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-5"	19'-11"	19'-0"	-
	NI-60	21'-1"	19'-7"	18'-9"	-	21'-8"	20'-2"	19'-4"	-
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	-
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	-
14"	NI-40x	23'-5"	21'-9"	20'-9"	-	24'-1"	22'-5"	20'-11"	-
	NI-60	23'-9"	22'-1"	21'-1"	-	24'-5"	22'-9"	21'-9"	-
	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	-
	NI-90	25'-10"	23'-11"	22'-10"	-	26'-5"	24'-6"	23'-5"	-
16"	NI-60	26'-3"	24'-3"	23'-2"	-	26'-11"	25'-1"	23'-11"	-
	NI-80	27'-11"	25'-10"	24'-8"	-	28'-7"	26'-6"	25'-4"	-
	NI-90	28'-5"	26'-3"	25'-0"	-	29'-0"	26'-11"	25'-8"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M1.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	19/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-5"	14'-7"	14'-2"	-	16'-0"	15'-1"	14'-8"	-
	NI-40x	16'-6"	15'-7"	15'-1"	-	17'-0"	16'-1"	15'-6"	-
	NI-60	16'-8"	15'-9"	15'-3"	-	17'-2"	16'-2"	15'-8"	-
	NI-80	17'-8"	16'-8"	16'-1"	-	18'-2"	17'-1"	16'-6"	-
11-7/8"	NI-20	17'-5"	16'-5"	15'-11"	-	18'-0"	17'-0"	16'-6"	-
	NI-40x	18'-9"	17'-6"	16'-11"	-	19'-5"	18'-1"	17'-5"	-
	NI-60	19'-0"	17'-8"	17'-1"	-	19'-8"	18'-3"	17'-7"	-
	NI-80	20'-5"	18'-11"	18'-1"	-	21'-1"	19'-6"	18'-8"	-
	NI-90	20'-10"	19'-3"	18'-5"	-	21'-6"	19'-11"	19'-0"	-
14"	NI-40x	20'-10"	19'-3"	18'-6"	-	21'-7"	20'-1"	19'-3"	-
	NI-60	21'-2"	19'-7"	18'-9"	-	21'-11"	20'-4"	19'-6"	-
	NI-80	22'-9"	21'-0"	20'-1"	-	23'-5"	21'-8"	20'-9"	-
	NI-90	23'-2"	21'-5"	20'-6"	-	23'-11"	22'-1"	21'-2"	-
16"	NI-60	23'-1"	21'-5"	20'-6"	-	23'-11"	22'-3"	21'-3"	-
	NI-80	24'-9"	22'-11"	21'-11"	-	25'-7"	23'-8"	22'-8"	-
	NI-90	25'-3"	23'-4"	22'-3"	-	26'-0"	24'-1"	23'-0"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-4"	16'-5"	15'-8"	-	17'-10"	16'-10"	15'-8"	-
	NI-40x	18'-7"	17'-5"	16'-8"	-	19'-1"	17'-10"	16'-8"	-
	NI-60	18'-9"	17'-7"	17'-0"	-	19'-4"	18'-0"	17'-4"	-
	NI-80	20'-1"	18'-8"	17'-10"	-	20'-7"	19'-2"	18'-4"	-
11-7/8"	NI-20	20'-3"	18'-10"	17'-11"	-	21'-0"	19'-7"	17'-11"	-
	NI-40x	21'-10"	20'-3"	19'-0"	-	22'-5"	20'-10"	19'-0"	-
	NI-60	22'-1"	20'-6"	19'-7"	-	22'-9"	21'-2"	20'-3"	-
	NI-80	23'-7"	21'-10"	20'-11"	-	24'-2"	22'-5"	21'-6"	-
	NI-90	24'-1"	22'-3"	21'-3"	-	24'-8"	22'-10"	21'-10"	-
14"	NI-40x	24'-6"	22'-9"	20'-10"	-	25'-3"	22'-10"	20'-10"	-
	NI-60	24'-11"	23'-1"	22'-0"	-	25'-7"	23'-10"	22'-9"	-
	NI-80	26'-7"	24'-7"	23'-6"	-	27'-2"	25'-3"	24'-2"	-
	NI-90	27'-1"	25'-1"	23'-11"	-	27'-8"	25'-8"	24'-6"	-
16"	NI-60	27'-5"	25'-5"	24'-3"	-	28'-2"	26'-3"	25'-1"	-
	NI-80	29'-3"	27'-1"	25'-10"	-	29'-11"	27'-10"	26'-7"	-
	NI-90	29'-9"	27'-6"	26'-3"	-	30'-5"	28'-3"	27'-0"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M2.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-1"	14'-3"	13'-10"	-	15'-7"	14'-9"	14'-3"	-
	NI-40x	16'-2"	15'-3"	14'-8"	-	16'-7"	15'-8"	15'-1"	-
	NI-60	16'-4"	15'-4"	14'-10"	-	16'-9"	15'-9"	15'-3"	-
	NI-80	17'-3"	16'-3"	15'-8"	-	17'-8"	16'-7"	16'-0"	-
11-7/8"	NI-20	17'-0"	16'-0"	15'-6"	-	17'-6"	16'-7"	16'-0"	-
	NI-40x	18'-2"	17'-1"	16'-6"	-	18'-9"	17'-6"	16'-11"	-
	NI-60	18'-5"	17'-3"	16'-8"	-	19'-0"	17'-8"	17'-1"	-
	NI-80	19'-9"	18'-3"	17'-7"	-	20'-4"	18'-10"	18'-0"	-
	NI-90	20'-2"	18'-8"	17'-10"	-	20'-9"	19'-2"	18'-4"	-
14"	NI-40x	20'-1"	18'-8"	17'-10"	-	20'-10"	19'-4"	18'-6"	-
	NI-60	20'-6"	18'-11"	18'-2"	-	21'-2"	19'-8"	18'-9"	-
	NI-80	21'-11"	20'-3"	19'-4"	-	22'-7"	20'-11"	20'-0"	-
	NI-90	22'-5"	20'-8"	19'-9"	-	23'-0"	21'-4"	20'-4"	-
16"	NI-60	22'-4"	20'-8"	19'-9"	-	23'-1"	21'-5"	20'-6"	-
	NI-80	23'-11"	22'-1"	21'-1"	-	24'-8"	22'-10"	21'-9"	-
	NI-90	24'-5"	22'-6"	21'-6"	-	25'-1"	23'-2"	22'-2"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-11"	15'-5"	14'-6"	-	17'-1"	15'-5"	14'-6"	-
	NI-40x	17'-11"	17'-0"	16'-5"	-	18'-5"	17'-4"	16'-7"	-
	NI-60	18'-2"	17'-1"	16'-6"	-	18'-8"	17'-6"	16'-10"	-
	NI-80	19'-5"	18'-0"	17'-5"	-	19'-10"	18'-5"	17'-8"	-
11-7/8"	NI-20	19'-7"	18'-2"	17'-6"	-	20'-3"	18'-8"	17'-6"	-
	NI-40x	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-0"	-
	NI-60	21'-4"	19'-9"	18'-11"	-	21'-11"	20'-5"	19'-6"	-
	NI-80	22'-9"	21'-1"	20'-2"	-	23'-3"	21'-8"	20'-8"	-
	NI-90	23'-3"	21'-6"	20'-6"	-	23'-9"	22'-0"	21'-0"	-
14"	NI-40x	23'-8"	21'-11"	20'-11"	-	24'-4"	22'-8"	20'-11"	-
	NI-60	24'-0"	22'-3"	21'-3"	-	24'-8"	22'-11"	21'-11"	-
	NI-80	25'-7"	23'-9"	22'-7"	-	26'-2"	24'-4"	23'-3"	-
	NI-90	26'-1"	24'-2"	23'-0"	-	26'-8"	24'-9"	23'-7"	-
16"	NI-60	26'-5"	24'-6"	23'-5"	-	27'-2"	25'-3"	24'-2"	-
	NI-80	28'-2"	26'-1"	24'-10"	-	28'-10"	26'-9"	25'-6"	-
	NI-90	28'-8"	26'-6"	25'-3"	-	29'-3"	27'-2"	25'-11"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M2.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-8"	14'-10"	14'-4"	-	16'-2"	15'-4"	14'-10"	-
	NI-40x	16'-9"	15'-10"	15'-3"	-	17'-3"	16'-3"	15'-8"	-
	NI-60	16'-11"	16'-0"	15'-5"	-	17'-5"	16'-5"	15'-10"	-
	NI-80	18'-0"	16'-11"	16'-4"	-	18'-6"	17'-4"	16'-8"	-
11-7/8"	NI-20	17'-8"	16'-8"	16'-1"	-	18'-4"	17'-3"	16'-8"	-
	NI-40x	19'-1"	17'-9"	17'-2"	-	19'-9"	18'-4"	17'-8"	-
	NI-60	19'-4"	17'-11"	17'-4"	-	20'-0"	18'-7"	17'-10"	-
	NI-80	20'-10"	19'-3"	18'-4"	-	21'-5"	19'-10"	18'-11"	-
	NI-90	21'-3"	19'-8"	18'-9"	-	21'-10"	20'-3"	19'-4"	-
14"	NI-40x	21'-2"	19'-8"	18'-9"	-	21'-11"	20'-5"	19'-6"	-
	NI-60	21'-7"	19'-11"	19'-1"	-	22'-4"	20'-8"	19'-10"	-
	NI-80	23'-2"	21'-5"	20'-5"	-	23'-10"	22'-1"	21'-1"	-
	NI-90	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-5"	-
16"	NI-60	23'-6"	21'-9"	20'-10"	-	24'-4"	22'-7"	21'-7"	-
	NI-80	25'-3"	23'-4"	22'-3"	-	26'-0"	24'-1"	23'-0"	-
	NI-90	25'-9"	23'-9"	22'-8"	-	26'-6"	24'-6"	23'-4"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-6"	16'-7"	15'-8"	-	18'-0"	16'-10"	15'-8"	-
	NI-40x	18'-9"	17'-7"	16'-8"	-	19'-4"	18'-0"	16'-8"	-
	NI-60	19'-0"	17'-8"	17'-1"	-	19'-6"	18'-2"	17'-6"	-
	NI-80	20'-4"	18'-11"	18'-1"	-	20'-10"	19'-4"	18'-6"	-
11-7/8"	NI-20	20'-5"	19'-0"	17'-11"	-	21'-2"	19'-8"	17'-11"	-
	NI-40x	22'-0"	20'-6"	19'-0"	-	22'-8"	20'-10"	19'-0"	-
	NI-60	22'-4"	20'-9"	19'-10"	-	22'-11"	21'-4"	20'-5"	-
	NI-80	23'-10"	22'-1"	21'-1"	-	24'-5"	22'-8"	21'-8"	-
	NI-90	24'-4"	22'-6"	21'-6"	-	24'-11"	23'-1"	22'-1"	-
14"	NI-40x	24'-9"	22'-10"	20'-10"	-	25'-5"	22'-10"	20'-10"	-
	NI-60	25'-1"	23'-4"	22'-3"	-	25'-10"	24'-1"	23'-0"	-
	NI-80	26'-10"	24'-10"	23'-8"	-	27'-5"	25'-6"	24'-4"	-
	NI-90	27'-4"	25'-4"	24'-1"	-	27'-11"	25'-11"	24'-9"	-
16"	NI-60	27'-8"	25'-8"	24'-6"	-	28'-5"	26'-6"	25'-4"	-
	NI-80	29'-6"	27'-4"	26'-1"	-	30'-2"	28'-1"	26'-9"	-
	NI-90	30'-1"	27'-10"	26'-6"	-	30'-8"	28'-6"	27'-2"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M3.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	23/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-9"	14'-10"	14'-4"	13'-5"	16'-2"	15'-4"	14'-6"	13'-5"
	NI-40x	16'-10"	15'-10"	15'-3"	14'-8"	17'-2"	16'-3"	15'-8"	14'-11"
	NI-60	16'-11"	16'-0"	15'-5"	14'-9"	17'-4"	16'-4"	15'-9"	15'-2"
	NI-80	18'-0"	16'-11"	16'-3"	15'-7"	18'-5"	17'-3"	16'-7"	15'-11"
11-7/8"	NI-20	17'-8"	16'-8"	16'-1"	15'-6"	18'-3"	17'-3"	16'-7"	16'-0"
	NI-40x	19'-1"	17'-9"	17'-1"	16'-5"	19'-8"	18'-3"	17'-6"	16'-10"
	NI-60	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-8"	17'-0"
	NI-80	20'-9"	19'-2"	18'-3"	17'-5"	21'-3"	19'-8"	18'-9"	17'-10"
	NI-90	21'-2"	19'-7"	18'-8"	17'-9"	21'-8"	20'-1"	19'-1"	18'-1"
14"	NI-40x	21'-2"	19'-7"	18'-8"	17'-9"	21'-10"	20'-3"	19'-4"	18'-4"
	NI-60	21'-6"	19'-11"	19'-0"	18'-0"	22'-2"	20'-7"	19'-8"	18'-8"
	NI-80	23'-1"	21'-4"	20'-3"	19'-3"	23'-8"	21'-11"	20'-10"	19'-9"
	NI-90	23'-6"	21'-9"	20'-8"	19'-7"	24'-1"	22'-4"	21'-3"	20'-1"
16"	NI-60	23'-5"	21'-8"	20'-8"	19'-7"	24'-2"	22'-5"	21'-5"	20'-4"
	NI-80	25'-1"	23'-2"	22'-1"	20'-11"	25'-9"	23'-10"	22'-9"	21'-6"
	NI-90	25'-7"	23'-7"	22'-6"	21'-3"	26'-3"	24'-3"	23'-1"	21'-11"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-6"	17'-5"	16'-7"	14'-11"	19'-0"	17'-8"	16'-7"	14'-11"
	NI-60	18'-9"	17'-7"	16'-10"	15'-7"	19'-2"	17'-11"	16'-10"	15'-7"
	NI-80	20'-0"	18'-7"	17'-10"	17'-1"	20'-6"	19'-1"	18'-2"	17'-5"
11-7/8"	NI-20	20'-1"	18'-8"	17'-6"	16'-1"	20'-7"	18'-8"	17'-6"	16'-1"
	NI-40x	21'-8"	20'-2"	19'-0"	17'-0"	22'-3"	20'-9"	19'-0"	17'-0"
	NI-60	21'-11"	20'-5"	19'-6"	18'-6"	22'-6"	21'-0"	20'-1"	18'-8"
	NI-80	23'-5"	21'-9"	20'-9"	19'-8"	23'-11"	22'-3"	21'-3"	20'-2"
	NI-90	23'-11"	22'-2"	21'-1"	20'-0"	24'-4"	22'-8"	21'-8"	20'-6"
14"	NI-40x	24'-3"	22'-7"	20'-11"	18'-8"	24'-11"	22'-11"	20'-11"	18'-8"
	NI-60	24'-8"	22'-11"	21'-10"	20'-8"	25'-3"	23'-7"	22'-7"	21'-4"
	NI-80	26'-3"	24'-5"	23'-3"	22'-0"	26'-10"	25'-0"	23'-10"	22'-7"
	NI-90	26'-9"	24'-10"	23'-8"	22'-5"	27'-4"	25'-5"	24'-3"	22'-11"
16"	NI-60	27'-1"	25'-2"	24'-0"	22'-9"	27'-9"	26'-0"	24'-10"	23'-1"
	NI-80	28'-10"	26'-10"	25'-6"	24'-2"	29'-6"	27'-6"	26'-3"	24'-10"
	NI-90	29'-5"	27'-3"	26'-0"	24'-6"	30'-0"	27'-11"	26'-8"	25'-2"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M3.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	23/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-4"	15'-5"	14'-11"	14'-0"	16'-10"	15'-11"	15'-5"	14'-0"
	NI-40x	17'-6"	16'-5"	15'-10"	14'-10"	17'-11"	16'-11"	16'-3"	14'-10"
	NI-60	17'-8"	16'-7"	16'-0"	15'-4"	18'-1"	17'-0"	16'-5"	15'-9"
	NI-80	18'-11"	17'-7"	16'-11"	16'-3"	19'-5"	17'-11"	17'-3"	16'-7"
11-7/8"	NI-20	18'-6"	17'-4"	16'-9"	16'-0"	19'-3"	17'-11"	17'-4"	16'-0"
	NI-40x	20'-1"	18'-7"	17'-9"	16'-11"	20'-8"	19'-3"	18'-4"	16'-11"
	NI-60	20'-4"	18'-10"	18'-0"	17'-3"	21'-0"	19'-6"	18'-7"	17'-8"
	NI-80	21'-10"	20'-2"	19'-3"	18'-3"	22'-5"	20'-9"	19'-9"	18'-9"
	NI-90	22'-4"	20'-7"	19'-7"	18'-7"	22'-10"	21'-2"	20'-2"	19'-1"
14"	NI-40x	22'-3"	20'-7"	19'-8"	18'-7"	23'-0"	21'-4"	20'-5"	18'-7"
	NI-60	22'-8"	20'-11"	20'-0"	18'-11"	23'-4"	21'-8"	20'-8"	19'-8"
	NI-80	24'-4"	22'-5"	21'-4"	20'-3"	24'-11"	23'-1"	22'-0"	20'-10"
	NI-90	24'-10"	22'-11"	21'-9"	20'-7"	25'-5"	23'-6"	22'-5"	21'-3"
16"	NI-60	24'-8"	22'-10"	21'-9"	20'-8"	25'-5"	23'-8"	22'-7"	21'-5"
	NI-80	26'-6"	24'-5"	23'-3"	22'-0"	27'-2"	25'-2"	24'-0"	22'-9"
	NI-90	27'-0"	24'-11"	23'-8"	22'-5"	27'-8"	25'-7"	24'-5"	23'-1"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-11"	16'-10"	15'-8"	14'-0"	18'-7"	16'-10"	15'-8"	14'-0"
	NI-40x	19'-5"	18'-1"	16'-8"	14'-10"	19'-11"	18'-3"	16'-8"	14'-10"
	NI-60	19'-7"	18'-3"	17'-6"	16'-10"	20'-2"	18'-9"	17'-11"	16'-11"
	NI-80	21'-0"	19'-6"	18'-7"	17'-7"	21'-6"	20'-0"	19'-1"	17'-7"
11-7/8"	NI-20	21'-1"	19'-8"	17'-11"	16'-0"	21'-10"	19'-8"	17'-11"	16'-0"
	NI-40x	22'-8"	20'-10"	19'-0"	16'-11"	23'-4"	20'-10"	19'-0"	16'-11"
	NI-60	23'-0"	21'-5"	20'-5"	19'-4"	23'-7"	22'-0"	21'-1"	19'-5"
	NI-80	24'-7"	22'-10"	21'-9"	20'-7"	25'-1"	23'-5"	22'-4"	21'-2"
	NI-90	25'-1"	23'-3"	22'-2"	21'-0"	25'-7"	23'-10"	22'-8"	21'-6"
14"	NI-40x	25'-5"	22'-10"	20'-10"	18'-7"	26'-1"	22'-10"	20'-10"	18'-7"
	NI-60	25'-10"	24'-0"	22'-11"	21'-4"	26'-6"	24'-9"	23'-8"	21'-4"
	NI-80	27'-7"	25'-7"	24'-5"	23'-1"	28'-2"	26'-3"	25'-1"	23'-9"
	NI-90	28'-1"	26'-1"	24'-10"	23'-6"	28'-8"	26'-8"	25'-6"	24'-1"
16"	NI-60	28'-4"	26'-5"	25'-2"	23'-0"	29'-1"	27'-3"	25'-9"	23'-0"
	NI-80	30'-3"	28'-1"	26'-9"	25'-4"	30'-11"	28'-10"	27'-6"	26'-1"
	NI-90	30'-10"	28'-7"	27'-3"	25'-9"	31'-5"	29'-4"	27'-11"	26'-5"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M4.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-11"	15'-0"	14'-6"	13'-5"	16'-5"	15'-5"	14'-6"	13'-5"
	NI-40x	17'-0"	16'-0"	15'-5"	14'-10"	17'-5"	16'-5"	15'-10"	14'-11"
	NI-60	17'-2"	16'-2"	15'-7"	14'-11"	17'-7"	16'-7"	16'-0"	15'-4"
	NI-80	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17'-5"	16'-9"	16'-1"
11-7/8"	NI-20	17'-11"	16'-11"	16'-3"	15'-8"	18'-7"	17'-5"	16'-10"	16'-1"
	NI-40x	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-9"	17'-0"
	NI-60	19'-7"	18'-2"	17'-6"	16'-9"	20'-2"	18'-9"	17'-11"	17'-2"
	NI-80	21'-1"	19'-6"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
14"	NI-40x	21'-5"	19'-11"	18'-11"	18'-0"	22'-1"	20'-7"	19'-7"	18'-7"
	NI-60	21'-10"	20'-2"	19'-3"	18'-3"	22'-6"	20'-10"	19'-11"	18'-10"
	NI-80	23'-5"	21'-7"	20'-7"	19'-5"	24'-0"	22'-3"	21'-2"	20'-0"
	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
16"	NI-60	23'-9"	22'-0"	21'-0"	19'-10"	24'-6"	22'-9"	21'-8"	20'-7"
	NI-80	25'-6"	23'-7"	22'-5"	21'-2"	26'-2"	24'-3"	23'-1"	21'-10"
	NI-90	26'-0"	24'-0"	22'-10"	21'-6"	26'-7"	24'-8"	23'-5"	22'-2"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-8"	17'-6"	16'-7"	14'-11"	19'-2"	17'-8"	16'-7"	14'-11"
	NI-60	18'-11"	17'-8"	16'-10"	15'-7"	19'-5"	18'-0"	16'-10"	15'-7"
	NI-80	20'-3"	18'-10"	17'-11"	17'-2"	20'-8"	19'-3"	18'-4"	17'-5"
11-7/8"	NI-20	20'-3"	18'-8"	17'-6"	16'-1"	20'-7"	18'-8"	17'-6"	16'-1"
	NI-40x	21'-10"	20'-4"	19'-0"	17'-0"	22'-5"	20'-10"	19'-0"	17'-0"
	NI-60	22'-1"	20'-7"	19'-8"	18'-7"	22'-8"	21'-2"	20'-3"	18'-8"
	NI-80	23'-8"	22'-0"	20'-11"	19'-10"	24'-1"	22'-6"	21'-6"	20'-4"
	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-8"
14"	NI-40x	24'-5"	22'-9"	20'-11"	18'-8"	25'-1"	22'-11"	20'-11"	18'-8"
	NI-60	24'-10"	23'-2"	22'-1"	20'-10"	25'-6"	23'-10"	22'-9"	21'-4"
	NI-80	26'-6"	24'-8"	23'-6"	22'-2"	27'-1"	25'-3"	24'-1"	22'-9"
	NI-90	27'-0"	25'-1"	23'-11"	22'-7"	27'-6"	25'-8"	24'-6"	23'-2"
16"	NI-60	27'-3"	25'-5"	24'-3"	22'-11"	28'-0"	26'-2"	25'-0"	23'-1"
	NI-80	29'-1"	27'-1"	25'-9"	24'-4"	29'-8"	27'-9"	26'-5"	25'-0"
	NI-90	29'-7"	27'-6"	26'-2"	24'-9"	30'-2"	28'-2"	26'-10"	25'-5"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M4.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-7"	15'-7"	15'-1"	14'-0"	17'-0"	16'-1"	15'-7"	14'-0"
	NI-40x	17'-8"	16'-8"	16'-1"	14'-10"	18'-2"	17'-1"	16'-6"	14'-10"
	NI-60	17'-10"	16'-10"	16'-2"	15'-6"	18'-4"	17'-3"	16'-7"	15'-11"
	NI-80	19'-2"	17'-9"	17'-1"	16'-5"	19'-8"	18'-3"	17'-6"	16'-9"
11-7/8"	NI-20	18'-10"	17'-7"	16'-11"	16'-0"	19'-6"	18'-2"	17'-6"	16'-0"
	NI-40x	20'-4"	18'-11"	18'-0"	16'-11"	21'-0"	19'-6"	18'-8"	16'-11"
	NI-60	20'-8"	19'-2"	18'-3"	17'-5"	21'-3"	19'-9"	18'-10"	17'-11"
	NI-80	22'-2"	20'-6"	19'-6"	18'-6"	22'-9"	21'-1"	20'-1"	19'-0"
	NI-90	22'-8"	20'-11"	19'-11"	18'-10"	23'-2"	21'-6"	20'-5"	19'-4"
14"	NI-40x	22'-7"	20'-11"	19'-11"	18'-7"	23'-4"	21'-8"	20'-8"	18'-7"
	NI-60	23'-0"	21'-3"	20'-3"	19'-2"	23'-8"	22'-0"	21'-0"	19'-11"
	NI-80	24'-8"	22'-9"	21'-8"	20'-6"	25'-3"	23'-5"	22'-4"	21'-1"
	NI-90	25'-2"	23'-3"	22'-1"	20'-11"	25'-9"	23'-10"	22'-9"	21'-6"
16"	NI-60	25'-0"	23'-2"	22'-1"	20'-11"	25'-10"	24'-0"	22'-11"	21'-8"
	NI-80	26'-10"	24'-10"	23'-7"	22'-4"	27'-7"	25'-6"	24'-4"	23'-0"
	NI-90	27'-5"	25'-3"	24'-0"	22'-8"	28'-1"	26'-0"	24'-9"	23'-5"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-1"	16'-10"	15'-8"	14'-0"	18'-7"	16'-10"	15'-8"	14'-0"
	NI-40x	19'-7"	18'-3"	16'-8"	14'-10"	20'-1"	18'-3"	16'-8"	14'-10"
	NI-60	19'-10"	18'-5"	17'-8"	16'-11"	20'-4"	19'-0"	18'-2"	16'-11"
	NI-80	21'-3"	19'-9"	18'-10"	17'-7"	21'-8"	20'-2"	19'-3"	17'-7"
11-7/8"	NI-20	21'-3"	19'-8"	17'-11"	16'-0"	22'-0"	19'-8"	17'-11"	16'-0"
	NI-40x	22'-11"	20'-10"	19'-0"	16'-11"	23'-6"	20'-10"	19'-0"	16'-11"
	NI-60	23'-2"	21'-7"	20'-7"	19'-5"	23'-10"	22'-3"	21'-3"	19'-5"
	NI-80	24'-9"	23'-0"	21'-11"	20'-9"	25'-4"	23'-7"	22'-6"	21'-4"
	NI-90	25'-3"	23'-6"	22'-4"	21'-2"	25'-9"	24'-0"	22'-11"	21'-8"
14"	NI-40x	25'-7"	22'-10"	20'-10"	18'-7"	26'-4"	22'-10"	20'-10"	18'-7"
	NI-60	26'-0"	24'-3"	23'-1"	21'-4"	26'-8"	25'-0"	23'-10"	21'-4"
	NI-80	27'-9"	25'-10"	24'-7"	23'-3"	28'-5"	26'-6"	25'-3"	23'-11"
	NI-90	28'-4"	26'-4"	25'-1"	23'-8"	28'-11"	26'-11"	25'-8"	24'-4"
16"	NI-60	28'-7"	26'-8"	25'-5"	23'-0"	29'-4"	27'-6"	25'-9"	23'-0"
	NI-80	30'-6"	28'-4"	27'-0"	25'-6"	31'-2"	29'-1"	27'-9"	26'-3"
	NI-90	31'-1"	28'-10"	27'-6"	25'-11"	31'-8"	29'-7"	28'-2"	26'-8"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M5.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	7/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-8"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	17'-9"	16'-9"	16'-2"	14'-11"	18'-2"	17'-2"	16'-6"	14'-11"
	NI-60	17'-11"	16'-11"	16'-3"	15'-7"	18'-5"	17'-3"	16'-8"	15'-7"
	NI-80	19'-3"	17'-10"	17'-2"	16'-5"	19'-8"	18'-3"	17'-6"	16'-9"
11-7/8"	NI-20	18'-11"	17'-8"	17'-0"	16'-1"	19'-7"	18'-3"	17'-6"	16'-1"
	NI-40x	20'-5"	19'-0"	18'-1"	17'-0"	21'-0"	19'-7"	18'-8"	17'-0"
	NI-60	20'-8"	19'-3"	18'-4"	17'-5"	21'-3"	19'-10"	18'-11"	17'-10"
	NI-80	22'-2"	20'-7"	19'-7"	18'-5"	22'-8"	21'-1"	20'-1"	18'-11"
	NI-90	22'-8"	21'-0"	19'-11"	18'-9"	23'-2"	21'-6"	20'-5"	19'-3"
14"	NI-40x	22'-7"	21'-0"	20'-0"	18'-8"	23'-3"	21'-8"	20'-8"	18'-8"
	NI-60	23'-0"	21'-4"	20'-4"	19'-2"	23'-8"	22'-0"	21'-0"	19'-10"
	NI-80	24'-8"	22'-10"	21'-8"	20'-5"	25'-3"	23'-5"	22'-4"	21'-0"
	NI-90	25'-2"	23'-3"	22'-1"	20'-10"	25'-8"	23'-10"	22'-8"	21'-5"
16"	NI-60	25'-1"	23'-3"	22'-1"	20'-10"	25'-9"	24'-0"	22'-11"	21'-7"
	NI-80	26'-10"	24'-10"	23'-7"	22'-3"	27'-6"	25'-6"	24'-3"	22'-11"
	NI-90	27'-4"	25'-4"	24'-1"	22'-7"	27'-11"	25'-11"	24'-8"	23'-3"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	19'-4"	17'-8"	16'-7"	14'-11"	19'-6"	17'-8"	16'-7"	14'-11"
	NI-60	19'-7"	18'-0"	16'-10"	15'-7"	19'-11"	18'-0"	16'-10"	15'-7"
	NI-80	20'-11"	19'-7"	18'-8"	17'-5"	21'-4"	20'-0"	18'-10"	17'-5"
11-7/8"	NI-20	20'-7"	18'-8"	17'-6"	16'-1"	20'-7"	18'-8"	17'-6"	16'-1"
	NI-40x	22'-7"	20'-10"	19'-0"	17'-0"	23'-2"	20'-10"	19'-0"	17'-0"
	NI-60	22'-10"	21'-4"	20'-3"	18'-8"	23'-5"	21'-7"	20'-3"	18'-8"
	NI-80	24'-5"	22'-9"	21'-9"	20'-6"	24'-11"	23'-4"	22'-3"	20'-9"
	NI-90	24'-11"	23'-3"	22'-2"	20'-10"	25'-4"	23'-9"	22'-8"	21'-4"
14"	NI-40x	25'-2"	22'-11"	20'-11"	18'-8"	25'-10"	22'-11"	20'-11"	18'-8"
	NI-60	25'-7"	23'-11"	22'-10"	21'-4"	26'-3"	24'-7"	23'-1"	21'-4"
	NI-80	27'-4"	25'-6"	24'-4"	22'-11"	27'-10"	26'-1"	24'-11"	23'-6"
	NI-90	27'-10"	26'-0"	24'-9"	23'-4"	28'-4"	26'-7"	25'-4"	23'-11"
16"	NI-60	28'-1"	26'-3"	25'-1"	23'-1"	28'-9"	27'-0"	25'-8"	23'-1"
	NI-80	29'-11"	27'-11"	26'-8"	25'-1"	30'-6"	28'-7"	27'-4"	25'-10"
	NI-90	30'-6"	28'-5"	27'-1"	25'-6"	31'-0"	29'-1"	27'-9"	26'-2"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M5.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	7/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-4"	16'-4"	15'-8"	14'-0"	17'-10"	16'-10"	15'-8"	14'-0"
	NI-40x	18'-7"	17'-5"	16'-8"	14'-10"	19'-2"	17'-10"	16'-8"	14'-10"
	NI-60	18'-10"	17'-7"	16'-11"	16'-2"	19'-4"	18'-0"	17'-4"	16'-7"
	NI-80	20'-3"	18'-9"	17'-10"	17'-1"	20'-8"	19'-3"	18'-4"	17'-5"
11-7/8"	NI-20	19'-10"	18'-6"	17'-8"	16'-0"	20'-7"	19'-3"	17'-11"	16'-0"
	NI-40x	21'-6"	19'-11"	19'-0"	16'-11"	22'-1"	20'-7"	19'-0"	16'-11"
	NI-60	21'-9"	20'-3"	19'-3"	18'-2"	22'-5"	20'-10"	19'-11"	18'-9"
	NI-80	23'-4"	21'-8"	20'-7"	19'-5"	23'-11"	22'-3"	21'-2"	19'-11"
	NI-90	23'-10"	22'-1"	21'-0"	19'-9"	24'-5"	22'-8"	21'-7"	20'-4"
14"	NI-40x	23'-10"	22'-1"	20'-10"	18'-7"	24'-6"	22'-10"	20'-10"	18'-7"
	NI-60	24'-3"	22'-6"	21'-5"	20'-2"	24'-11"	23'-2"	22'-1"	20'-11"
	NI-80	26'-0"	24'-1"	22'-10"	21'-6"	26'-7"	24'-8"	23'-6"	22'-2"
	NI-90	26'-6"	24'-6"	23'-4"	21'-11"	27'-1"	25'-2"	23'-11"	22'-7"
16"	NI-60	26'-5"	24'-6"	23'-4"	21'-11"	27'-2"	25'-3"	24'-1"	22'-9"
	NI-80	28'-3"	26'-2"	24'-11"	23'-5"	28'-11"	26'-11"	25'-7"	24'-2"
	NI-90	28'-10"	26'-8"	25'-4"	23'-10"	29'-6"	27'-4"	26'-1"	24'-6"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-7"	16'-10"	15'-8"	14'-0"	18'-7"	16'-10"	15'-8"	14'-0"
	NI-40x	20'-3"	18'-3"	16'-8"	14'-10"	20'-10"	18'-3"	16'-8"	14'-10"
	NI-60	20'-6"	19'-2"	18'-4"	16'-11"	21'-1"	19'-7"	18'-4"	16'-11"
	NI-80	22'-0"	20'-6"	19'-7"	17'-7"	22'-5"	21'-0"	20'-0"	17'-7"
11-7/8"	NI-20	21'-11"	19'-8"	17'-11"	16'-0"	22'-5"	19'-8"	17'-11"	16'-0"
	NI-40x	23'-8"	20'-10"	19'-0"	16'-11"	24'-1"	20'-10"	19'-0"	16'-11"
	NI-60	23'-11"	22'-5"	21'-5"	19'-5"	24'-7"	23'-1"	21'-9"	19'-5"
	NI-80	25'-7"	23'-11"	22'-9"	21'-6"	26'-2"	24'-6"	23'-4"	21'-10"
	NI-90	26'-1"	24'-4"	23'-3"	21'-11"	26'-7"	24'-11"	23'-9"	22'-5"
14"	NI-40x	26'-5"	22'-10"	20'-10"	18'-7"	26'-5"	22'-10"	20'-10"	18'-7"
	NI-60	26'-10"	25'-1"	23'-11"	21'-4"	27'-6"	25'-10"	23'-11"	21'-4"
	NI-80	28'-8"	26'-9"	25'-6"	24'-0"	29'-3"	27'-5"	26'-2"	24'-6"
	NI-90	29'-2"	27'-3"	26'-0"	24'-6"	29'-9"	27'-10"	26'-7"	24'-9"
16"	NI-60	29'-5"	27'-6"	25'-9"	23'-0"	30'-2"	28'-3"	25'-9"	23'-0"
	NI-80	31'-5"	29'-4"	28'-0"	26'-4"	32'-1"	30'-1"	28'-9"	26'-10"
	NI-90	32'-0"	29'-10"	28'-5"	26'-9"	32'-10"	30'-6"	29'-2"	26'-10"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M6.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"	-
	NI-40x	15'-11"	15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	-
	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-1"	-
	NI-80	17'-1"	16'-1"	15'-6"	-	17'-5"	16'-5"	15'-10"	-
11-7/8"	NI-20	16'-9"	15'-10"	15'-4"	-	17'-4"	16'-4"	15'-10"	-
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-6"	17'-4"	16'-9"	-
	NI-60	18'-1"	17'-0"	16'-5"	-	18'-9"	17'-6"	16'-11"	-
	NI-80	19'-6"	18'-0"	17'-4"	-	20'-1"	18'-7"	17'-9"	-
	NI-90	19'-11"	18'-4"	17'-8"	-	20'-5"	18'-11"	18'-1"	-
14"	NI-40x	19'-10"	18'-4"	17'-8"	-	20'-6"	19'-1"	18'-3"	-
	NI-60	20'-2"	18'-8"	17'-11"	-	20'-10"	19'-4"	18'-6"	-
	NI-80	21'-8"	20'-0"	19'-1"	-	22'-4"	20'-8"	19'-9"	-
	NI-90	22'-1"	20'-5"	19'-6"	-	22'-9"	21'-0"	20'-1"	-
16"	NI-60	22'-0"	20'-4"	19'-6"	-	22'-9"	21'-1"	20'-2"	-
	NI-80	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-6"	-
	NI-90	24'-1"	22'-2"	21'-2"	-	24'-9"	22'-11"	21'-10"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-9"	15'-5"	14'-6"	-	17'-1"	15'-5"	14'-6"	-
	NI-40x	17'-9"	16'-10"	16'-3"	-	18'-2"	17'-2"	16'-7"	-
	NI-60	17'-11"	16'-11"	16'-5"	-	18'-5"	17'-4"	16'-9"	-
	NI-80	19'-3"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	-
11-7/8"	NI-20	19'-4"	18'-0"	17'-4"	-	20'-0"	18'-8"	17'-6"	-
	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-5"	19'-11"	19'-0"	-
	NI-60	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-3"	-
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	-
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	-
14"	NI-40x	23'-5"	21'-8"	20'-9"	-	24'-0"	22'-5"	20'-11"	-
	NI-60	23'-9"	22'-0"	21'-0"	-	24'-5"	22'-8"	21'-8"	-
	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	-
	NI-90	25'-10"	23'-11"	22'-9"	-	26'-5"	24'-6"	23'-4"	-
16"	NI-60	26'-2"	24'-3"	23'-2"	-	26'-11"	25'-0"	23'-11"	-
	NI-80	27'-11"	25'-10"	24'-7"	-	28'-7"	26'-6"	25'-3"	-
	NI-90	28'-5"	26'-3"	25'-0"	-	29'-0"	26'-11"	25'-8"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M6.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-6"	14'-7"	14'-2"	-	16'-0"	15'-1"	14'-7"	-
	NI-40x	16'-7"	15'-7"	15'-1"	-	17'-0"	16'-1"	15'-6"	-
	NI-60	16'-9"	15'-9"	15'-3"	-	17'-2"	16'-2"	15'-8"	-
	NI-80	17'-9"	16'-8"	16'-2"	-	18'-3"	17'-1"	16'-6"	-
11-7/8"	NI-20	17'-5"	16'-5"	15'-11"	-	18'-0"	17'-0"	16'-6"	-
	NI-40x	18'-10"	17'-6"	16'-11"	-	19'-5"	18'-1"	17'-5"	-
	NI-60	19'-1"	17'-9"	17'-1"	-	19'-9"	18'-4"	17'-7"	-
	NI-80	20'-6"	19'-0"	18'-2"	-	21'-2"	19'-7"	18'-8"	-
	NI-90	21'-0"	19'-4"	18'-6"	-	21'-7"	19'-11"	19'-1"	-
14"	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-7"	20'-1"	19'-3"	-
	NI-60	21'-3"	19'-8"	18'-10"	-	22'-0"	20'-5"	19'-6"	-
	NI-80	22'-10"	21'-1"	20'-2"	-	23'-6"	21'-9"	20'-10"	-
	NI-90	23'-4"	21'-6"	20'-7"	-	24'-0"	22'-2"	21'-2"	-
16"	NI-60	23'-2"	21'-5"	20'-6"	-	24'-0"	22'-3"	21'-4"	-
	NI-80	24'-11"	23'-0"	21'-11"	-	25'-8"	23'-9"	22'-8"	-
	NI-90	25'-5"	23'-5"	22'-4"	-	26'-2"	24'-2"	23'-1"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-3"	16'-4"	15'-8"	-	17'-9"	16'-10"	15'-8"	-
	NI-40x	18'-7"	17'-5"	16'-8"	-	19'-1"	17'-10"	16'-8"	-
	NI-60	18'-9"	17'-6"	16'-11"	-	19'-3"	18'-0"	17'-4"	-
	NI-80	20'-2"	18'-8"	17'-10"	-	20'-7"	19'-2"	18'-4"	-
11-7/8"	NI-20	20'-2"	18'-9"	17'-11"	-	20'-11"	19'-6"	17'-11"	-
	NI-40x	21'-9"	20'-3"	19'-0"	-	22'-5"	20'-10"	19'-0"	-
	NI-60	22'-1"	20'-6"	19'-7"	-	22'-8"	21'-1"	20'-2"	-
	NI-80	23'-7"	21'-10"	20'-11"	-	24'-2"	22'-5"	21'-5"	-
	NI-90	24'-1"	22'-4"	21'-3"	-	24'-8"	22'-10"	21'-10"	-
14"	NI-40x	24'-6"	22'-8"	20'-10"	-	25'-2"	22'-10"	20'-10"	-
	NI-60	24'-10"	23'-1"	22'-0"	-	25'-7"	23'-9"	22'-9"	-
	NI-80	26'-7"	24'-7"	23'-5"	-	27'-2"	25'-3"	24'-1"	-
	NI-90	27'-1"	25'-1"	23'-11"	-	27'-8"	25'-8"	24'-6"	-
16"	NI-60	27'-5"	25'-5"	24'-3"	-	28'-2"	26'-3"	25'-1"	-
	NI-80	29'-3"	27'-1"	25'-10"	-	29'-11"	27'-10"	26'-6"	-
	NI-90	29'-9"	27'-7"	26'-3"	-	30'-5"	28'-3"	26'-11"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M7.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-10"	15'-0"	14'-5"	13'-5"	16'-4"	15'-5"	14'-6"	13'-5"
	NI-40x	16'-11"	15'-11"	15'-4"	14'-9"	17'-4"	16'-4"	15'-9"	14'-11"
	NI-60	17'-1"	16'-1"	15'-6"	14'-10"	17'-6"	16'-6"	15'-11"	15'-3"
	NI-80	18'-1"	17'-0"	16'-4"	15'-8"	18'-7"	17'-4"	16'-8"	16'-0"
11-7/8"	NI-20	17'-10"	16'-10"	16'-2"	15'-7"	18'-5"	17'-4"	16'-9"	16'-1"
	NI-40x	19'-3"	17'-10"	17'-2"	16'-6"	19'-10"	18'-5"	17'-8"	16'-11"
	NI-60	19'-6"	18'-1"	17'-4"	16'-8"	20'-1"	18'-8"	17'-10"	17'-1"
	NI-80	20'-11"	19'-4"	18'-5"	17'-7"	21'-5"	19'-10"	18'-11"	17'-11"
	NI-90	21'-4"	19'-9"	18'-9"	17'-10"	21'-10"	20'-3"	19'-3"	18'-3"
14"	NI-40x	21'-4"	19'-9"	18'-10"	17'-11"	22'-0"	20'-5"	19'-6"	18'-6"
	NI-60	21'-8"	20'-1"	19'-2"	18'-2"	22'-4"	20'-9"	19'-9"	18'-9"
	NI-80	23'-3"	21'-6"	20'-5"	19'-4"	23'-10"	22'-1"	21'-0"	19'-11"
	NI-90	23'-9"	21'-11"	20'-10"	19'-8"	24'-3"	22'-6"	21'-5"	20'-3"
16"	NI-60	23'-7"	21'-10"	20'-10"	19'-9"	24'-4"	22'-7"	21'-7"	20'-5"
	NI-80	25'-4"	23'-5"	22'-3"	21'-1"	26'-0"	24'-1"	22'-11"	21'-8"
	NI-90	25'-10"	23'-10"	22'-8"	21'-5"	26'-5"	24'-6"	23'-4"	22'-0"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-7"	17'-6"	16'-7"	14'-11"	19'-1"	17'-8"	16'-7"	14'-11"
	NI-60	18'-10"	17'-7"	16'-10"	15'-7"	19'-4"	18'-0"	16'-10"	15'-7"
	NI-80	20'-2"	18'-9"	17'-11"	17'-2"	20'-7"	19'-2"	18'-3"	17'-5"
11-7/8"	NI-20	20'-3"	18'-8"	17'-6"	16'-1"	20'-7"	18'-8"	17'-6"	16'-1"
	NI-40x	21'-9"	20'-3"	19'-0"	17'-0"	22'-4"	20'-10"	19'-0"	17'-0"
	NI-60	22'-0"	20'-6"	19'-7"	18'-7"	22'-7"	21'-1"	20'-2"	18'-8"
	NI-80	23'-6"	21'-10"	20'-10"	19'-9"	24'-0"	22'-5"	21'-4"	20'-3"
	NI-90	24'-0"	22'-4"	21'-3"	20'-1"	24'-6"	22'-10"	21'-9"	20'-7"
14"	NI-40x	24'-4"	22'-8"	20'-11"	18'-8"	25'-0"	22'-11"	20'-11"	18'-8"
	NI-60	24'-9"	23'-0"	22'-0"	20'-9"	25'-5"	23'-9"	22'-8"	21'-4"
	NI-80	26'-5"	24'-6"	23'-4"	22'-1"	27'-0"	25'-2"	24'-0"	22'-8"
	NI-90	26'-11"	25'-0"	23'-10"	22'-6"	27'-5"	25'-7"	24'-5"	23'-1"
16"	NI-60	27'-2"	25'-4"	24'-2"	22'-10"	27'-11"	26'-1"	24'-11"	23'-1"
	NI-80	29'-0"	26'-11"	25'-8"	24'-3"	29'-7"	27'-7"	26'-4"	24'-11"
	NI-90	29'-6"	27'-5"	26'-1"	24'-8"	30'-1"	28'-1"	26'-9"	25'-4"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – M7.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-5"	15'-7"	15'-0"	14'-0"	16'-11"	16'-0"	15'-6"	14'-0"
	NI-40x	17'-7"	16'-7"	16'-0"	14'-10"	18'-0"	17'-0"	16'-5"	14'-10"
	NI-60	17'-9"	16'-9"	16'-1"	15'-6"	18'-3"	17'-2"	16'-6"	15'-10"
	NI-80	19'-1"	17'-8"	17'-0"	16'-4"	19'-6"	18'-1"	17'-5"	16'-8"
11-7/8"	NI-20	18'-8"	17'-6"	16'-10"	16'-0"	19'-5"	18'-1"	17'-5"	16'-0"
	NI-40x	20'-3"	18'-9"	17'-11"	16'-11"	20'-10"	19'-5"	18'-6"	16'-11"
	NI-60	20'-6"	19'-0"	18'-2"	17'-4"	21'-2"	19'-8"	18'-9"	17'-10"
	NI-80	22'-0"	20'-4"	19'-5"	18'-4"	22'-7"	20'-11"	19'-11"	18'-11"
	NI-90	22'-6"	20'-9"	19'-9"	18'-9"	23'-1"	21'-4"	20'-4"	19'-3"
14"	NI-40x	22'-5"	20'-9"	19'-10"	18'-7"	23'-2"	21'-6"	20'-7"	18'-7"
	NI-60	22'-10"	21'-2"	20'-2"	19'-1"	23'-6"	21'-10"	20'-10"	19'-9"
	NI-80	24'-6"	22'-8"	21'-6"	20'-5"	25'-1"	23'-3"	22'-2"	21'-0"
	NI-90	25'-0"	23'-1"	21'-11"	20'-9"	25'-7"	23'-9"	22'-7"	21'-4"
16"	NI-60	24'-11"	23'-0"	21'-11"	20'-9"	25'-8"	23'-10"	22'-9"	21'-7"
	NI-80	26'-8"	24'-8"	23'-5"	22'-2"	27'-5"	25'-4"	24'-2"	22'-11"
	NI-90	27'-2"	25'-1"	23'-11"	22'-7"	27'-10"	25'-10"	24'-7"	23'-3"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-0"	16'-10"	15'-8"	14'-0"	18'-7"	16'-10"	15'-8"	14'-0"
	NI-40x	19'-6"	18'-2"	16'-8"	14'-10"	20'-0"	18'-3"	16'-8"	14'-10"
	NI-60	19'-9"	18'-4"	17'-7"	16'-11"	20'-3"	18'-11"	18'-1"	16'-11"
	NI-80	21'-1"	19'-8"	18'-9"	17'-7"	21'-7"	20'-1"	19'-2"	17'-7"
11-7/8"	NI-20	21'-2"	19'-8"	17'-11"	16'-0"	21'-11"	19'-8"	17'-11"	16'-0"
	NI-40x	22'-9"	20'-10"	19'-0"	16'-11"	23'-5"	20'-10"	19'-0"	16'-11"
	NI-60	23'-1"	21'-6"	20'-6"	19'-5"	23'-9"	22'-2"	21'-2"	19'-5"
	NI-80	24'-8"	22'-11"	21'-10"	20'-8"	25'-3"	23'-6"	22'-5"	21'-3"
	NI-90	25'-2"	23'-5"	22'-3"	21'-1"	25'-8"	23'-11"	22'-10"	21'-7"
14"	NI-40x	25'-6"	22'-10"	20'-10"	18'-7"	26'-3"	22'-10"	20'-10"	18'-7"
	NI-60	25'-11"	24'-2"	23'-0"	21'-4"	26'-7"	24'-11"	23'-9"	21'-4"
	NI-80	27'-8"	25'-9"	24'-6"	23'-2"	28'-3"	26'-5"	25'-2"	23'-10"
	NI-90	28'-3"	26'-2"	24'-11"	23'-7"	28'-9"	26'-10"	25'-7"	24'-3"
16"	NI-60	28'-6"	26'-6"	25'-3"	23'-0"	29'-3"	27'-4"	25'-9"	23'-0"
	NI-80	30'-5"	28'-3"	26'-11"	25'-5"	31'-1"	29'-0"	27'-8"	26'-2"
	NI-90	30'-11"	28'-9"	27'-4"	25'-10"	31'-7"	29'-5"	28'-1"	26'-7"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H1.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	19/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"	-
	NI-40x	15'-11"	15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	-
	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-0"	-
	NI-80	17'-0"	16'-0"	15'-6"	-	17'-5"	16'-5"	15'-10"	-
11-7/8"	NI-20	16'-9"	15'-10"	15'-4"	-	17'-3"	16'-4"	15'-10"	-
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-5"	17'-4"	16'-9"	-
	NI-60	18'-1"	17'-0"	16'-5"	-	18'-8"	17'-6"	16'-11"	-
	NI-80	19'-5"	17'-11"	17'-4"	-	20'-0"	18'-6"	17'-9"	-
	NI-90	19'-10"	18'-4"	17'-7"	-	20'-5"	18'-10"	18'-0"	-
14"	NI-40x	19'-9"	18'-4"	17'-8"	-	20'-6"	19'-0"	18'-3"	-
	NI-60	20'-1"	18'-7"	17'-10"	-	20'-10"	19'-4"	18'-6"	-
	NI-80	21'-7"	19'-11"	19'-1"	-	22'-3"	20'-7"	19'-8"	-
	NI-90	22'-0"	20'-4"	19'-5"	-	22'-8"	21'-0"	20'-0"	-
16"	NI-60	21'-11"	20'-4"	19'-5"	-	22'-8"	21'-1"	20'-2"	-
	NI-80	23'-6"	21'-9"	20'-9"	-	24'-3"	22'-5"	21'-5"	-
	NI-90	23'-11"	22'-1"	21'-2"	-	24'-8"	22'-10"	21'-10"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-9"	15'-5"	14'-3"	-	17'-0"	15'-5"	14'-3"	-
	NI-40x	17'-9"	16'-7"	15'-1"	-	18'-3"	16'-7"	15'-1"	-
	NI-60	17'-11"	16'-11"	16'-5"	-	18'-5"	17'-4"	16'-8"	-
	NI-80	19'-2"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	-
11-7/8"	NI-20	19'-4"	17'-10"	16'-3"	-	20'-0"	17'-10"	16'-3"	-
	NI-40x	20'-10"	18'-10"	17'-3"	-	21'-5"	18'-10"	17'-3"	-
	NI-60	21'-1"	19'-7"	18'-9"	-	21'-8"	20'-2"	19'-4"	-
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	-
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	-
14"	NI-40x	23'-5"	20'-9"	18'-11"	-	24'-0"	20'-9"	18'-11"	-
	NI-60	23'-9"	22'-1"	21'-1"	-	24'-5"	22'-9"	21'-8"	-
	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	-
	NI-90	25'-10"	23'-11"	22'-10"	-	26'-5"	24'-6"	23'-5"	-
16"	NI-60	26'-3"	24'-3"	23'-2"	-	26'-11"	25'-1"	23'-4"	-
	NI-80	27'-11"	25'-10"	24'-8"	-	28'-7"	26'-6"	25'-4"	-
	NI-90	28'-5"	26'-3"	25'-0"	-	29'-0"	26'-11"	25'-8"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H1.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	19/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-5"	14'-7"	14'-2"	-	16'-0"	15'-1"	14'-2"	-
	NI-40x	16'-6"	15'-7"	15'-0"	-	17'-0"	16'-1"	15'-0"	-
	NI-60	16'-8"	15'-9"	15'-3"	-	17'-2"	16'-2"	15'-8"	-
	NI-80	17'-8"	16'-8"	16'-1"	-	18'-2"	17'-1"	16'-6"	-
11-7/8"	NI-20	17'-5"	16'-5"	15'-11"	-	18'-0"	17'-0"	16'-2"	-
	NI-40x	18'-9"	17'-6"	16'-11"	-	19'-5"	18'-1"	17'-2"	-
	NI-60	19'-0"	17'-8"	17'-1"	-	19'-8"	18'-3"	17'-7"	-
	NI-80	20'-5"	18'-11"	18'-1"	-	21'-1"	19'-6"	18'-8"	-
	NI-90	20'-10"	19'-3"	18'-5"	-	21'-6"	19'-11"	19'-0"	-
14"	NI-40x	20'-10"	19'-3"	18'-6"	-	21'-7"	20'-1"	18'-10"	-
	NI-60	21'-2"	19'-7"	18'-9"	-	21'-11"	20'-4"	19'-6"	-
	NI-80	22'-9"	21'-0"	20'-1"	-	23'-5"	21'-8"	20'-9"	-
	NI-90	23'-2"	21'-5"	20'-6"	-	23'-11"	22'-1"	21'-2"	-
16"	NI-60	23'-1"	21'-5"	20'-6"	-	23'-11"	22'-3"	21'-3"	-
	NI-80	24'-9"	22'-11"	21'-11"	-	25'-7"	23'-8"	22'-8"	-
	NI-90	25'-3"	23'-4"	22'-3"	-	26'-0"	24'-1"	23'-0"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-4"	15'-7"	14'-2"	-	17'-10"	15'-7"	14'-2"	-
	NI-40x	18'-7"	16'-6"	15'-0"	-	19'-1"	16'-6"	15'-0"	-
	NI-60	18'-9"	17'-7"	17'-0"	-	19'-4"	18'-0"	17'-3"	-
	NI-80	20'-1"	18'-8"	17'-10"	-	20'-7"	19'-2"	18'-0"	-
11-7/8"	NI-20	20'-3"	17'-9"	16'-2"	-	20'-6"	17'-9"	16'-2"	-
	NI-40x	21'-9"	18'-10"	17'-2"	-	21'-9"	18'-10"	17'-2"	-
	NI-60	22'-1"	20'-6"	19'-7"	-	22'-9"	21'-2"	19'-8"	-
	NI-80	23'-7"	21'-10"	20'-11"	-	24'-2"	22'-5"	21'-6"	-
	NI-90	24'-1"	22'-3"	21'-3"	-	24'-8"	22'-10"	21'-10"	-
14"	NI-40x	23'-11"	20'-8"	18'-10"	-	23'-11"	20'-8"	18'-10"	-
	NI-60	24'-11"	23'-1"	21'-7"	-	25'-7"	23'-8"	21'-7"	-
	NI-80	26'-7"	24'-7"	23'-6"	-	27'-2"	25'-3"	24'-2"	-
	NI-90	27'-1"	25'-1"	23'-11"	-	27'-8"	25'-8"	24'-6"	-
16"	NI-60	27'-5"	25'-5"	23'-4"	-	28'-2"	25'-6"	23'-4"	-
	NI-80	29'-3"	27'-1"	25'-10"	-	29'-11"	27'-10"	26'-7"	-
	NI-90	29'-9"	27'-6"	26'-3"	-	30'-5"	28'-3"	27'-0"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H2.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-1"	14'-3"	13'-10"	-	15'-7"	14'-9"	14'-3"	-
	NI-40x	16'-2"	15'-3"	14'-8"	-	16'-7"	15'-8"	15'-1"	-
	NI-60	16'-4"	15'-4"	14'-10"	-	16'-9"	15'-9"	15'-3"	-
	NI-80	17'-3"	16'-3"	15'-8"	-	17'-8"	16'-7"	16'-0"	-
11-7/8"	NI-20	17'-0"	16'-0"	15'-6"	-	17'-6"	16'-7"	16'-0"	-
	NI-40x	18'-2"	17'-1"	16'-6"	-	18'-9"	17'-6"	16'-11"	-
	NI-60	18'-5"	17'-3"	16'-8"	-	19'-0"	17'-8"	17'-1"	-
	NI-80	19'-9"	18'-3"	17'-7"	-	20'-4"	18'-10"	18'-0"	-
	NI-90	20'-2"	18'-8"	17'-10"	-	20'-9"	19'-2"	18'-4"	-
14"	NI-40x	20'-1"	18'-8"	17'-10"	-	20'-10"	19'-4"	18'-6"	-
	NI-60	20'-6"	18'-11"	18'-2"	-	21'-2"	19'-8"	18'-9"	-
	NI-80	21'-11"	20'-3"	19'-4"	-	22'-7"	20'-11"	20'-0"	-
	NI-90	22'-5"	20'-8"	19'-9"	-	23'-0"	21'-4"	20'-4"	-
16"	NI-60	22'-4"	20'-8"	19'-9"	-	23'-1"	21'-5"	20'-6"	-
	NI-80	23'-11"	22'-1"	21'-1"	-	24'-8"	22'-10"	21'-9"	-
	NI-90	24'-5"	22'-6"	21'-6"	-	25'-1"	23'-2"	22'-2"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-11"	15'-5"	14'-3"	-	17'-0"	15'-5"	14'-3"	-
	NI-40x	17'-11"	16'-7"	15'-1"	-	18'-5"	16'-7"	15'-1"	-
	NI-60	18'-2"	17'-1"	16'-6"	-	18'-8"	17'-6"	16'-9"	-
	NI-80	19'-5"	18'-0"	17'-5"	-	19'-10"	18'-5"	17'-8"	-
11-7/8"	NI-20	19'-7"	17'-10"	16'-3"	-	20'-3"	17'-10"	16'-3"	-
	NI-40x	21'-1"	18'-10"	17'-3"	-	21'-8"	18'-10"	17'-3"	-
	NI-60	21'-4"	19'-9"	18'-11"	-	21'-11"	20'-5"	19'-6"	-
	NI-80	22'-9"	21'-1"	20'-2"	-	23'-3"	21'-8"	20'-8"	-
	NI-90	23'-3"	21'-6"	20'-6"	-	23'-9"	22'-0"	21'-0"	-
14"	NI-40x	23'-8"	20'-9"	18'-11"	-	24'-0"	20'-9"	18'-11"	-
	NI-60	24'-0"	22'-3"	21'-3"	-	24'-8"	22'-11"	21'-8"	-
	NI-80	25'-7"	23'-9"	22'-7"	-	26'-2"	24'-4"	23'-3"	-
	NI-90	26'-1"	24'-2"	23'-0"	-	26'-8"	24'-9"	23'-7"	-
16"	NI-60	26'-5"	24'-6"	23'-4"	-	27'-2"	25'-3"	23'-4"	-
	NI-80	28'-2"	26'-1"	24'-10"	-	28'-10"	26'-9"	25'-6"	-
	NI-90	28'-8"	26'-6"	25'-3"	-	29'-3"	27'-2"	25'-11"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H2.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-8"	14'-10"	14'-2"	-	16'-2"	15'-4"	14'-2"	-
	NI-40x	16'-9"	15'-10"	15'-0"	-	17'-3"	16'-3"	15'-0"	-
	NI-60	16'-11"	16'-0"	15'-5"	-	17'-5"	16'-5"	15'-10"	-
	NI-80	18'-0"	16'-11"	16'-4"	-	18'-6"	17'-4"	16'-8"	-
11-7/8"	NI-20	17'-8"	16'-8"	16'-1"	-	18'-4"	17'-3"	16'-2"	-
	NI-40x	19'-1"	17'-9"	17'-2"	-	19'-9"	18'-4"	17'-2"	-
	NI-60	19'-4"	17'-11"	17'-4"	-	20'-0"	18'-7"	17'-10"	-
	NI-80	20'-10"	19'-3"	18'-4"	-	21'-5"	19'-10"	18'-11"	-
	NI-90	21'-3"	19'-8"	18'-9"	-	21'-10"	20'-3"	19'-4"	-
14"	NI-40x	21'-2"	19'-8"	18'-9"	-	21'-11"	20'-5"	18'-10"	-
	NI-60	21'-7"	19'-11"	19'-1"	-	22'-4"	20'-8"	19'-10"	-
	NI-80	23'-2"	21'-5"	20'-5"	-	23'-10"	22'-1"	21'-1"	-
	NI-90	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-5"	-
16"	NI-60	23'-6"	21'-9"	20'-10"	-	24'-4"	22'-7"	21'-7"	-
	NI-80	25'-3"	23'-4"	22'-3"	-	26'-0"	24'-1"	23'-0"	-
	NI-90	25'-9"	23'-9"	22'-8"	-	26'-6"	24'-6"	23'-4"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-6"	15'-7"	14'-2"	-	18'-0"	15'-7"	14'-2"	-
	NI-40x	18'-9"	16'-6"	15'-0"	-	19'-1"	16'-6"	15'-0"	-
	NI-60	19'-0"	17'-8"	17'-1"	-	19'-6"	18'-2"	17'-3"	-
	NI-80	20'-4"	18'-11"	18'-0"	-	20'-10"	19'-4"	18'-0"	-
11-7/8"	NI-20	20'-5"	17'-9"	16'-2"	-	20'-6"	17'-9"	16'-2"	-
	NI-40x	21'-9"	18'-10"	17'-2"	-	21'-9"	18'-10"	17'-2"	-
	NI-60	22'-4"	20'-9"	19'-8"	-	22'-11"	21'-4"	19'-8"	-
	NI-80	23'-10"	22'-1"	21'-1"	-	24'-5"	22'-8"	21'-8"	-
	NI-90	24'-4"	22'-6"	21'-6"	-	24'-11"	23'-1"	22'-1"	-
14"	NI-40x	23'-11"	20'-8"	18'-10"	-	23'-11"	20'-8"	18'-10"	-
	NI-60	25'-1"	23'-4"	21'-7"	-	25'-10"	23'-8"	21'-7"	-
	NI-80	26'-10"	24'-10"	23'-8"	-	27'-5"	25'-6"	24'-4"	-
	NI-90	27'-4"	25'-4"	24'-1"	-	27'-11"	25'-11"	24'-9"	-
16"	NI-60	27'-8"	25'-6"	23'-4"	-	28'-5"	25'-6"	23'-4"	-
	NI-80	29'-6"	27'-4"	26'-1"	-	30'-2"	28'-1"	26'-9"	-
	NI-90	30'-1"	27'-10"	26'-6"	-	30'-8"	28'-6"	27'-2"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H3.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	23/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-9"	14'-10"	14'-3"	12'-9"	16'-2"	15'-4"	14'-3"	12'-9"
	NI-40x	16'-10"	15'-10"	15'-1"	13'-6"	17'-2"	16'-3"	15'-1"	13'-6"
	NI-60	16'-11"	16'-0"	15'-5"	14'-9"	17'-4"	16'-4"	15'-9"	15'-2"
	NI-80	18'-0"	16'-11"	16'-3"	15'-7"	18'-5"	17'-3"	16'-7"	15'-11"
11-7/8"	NI-20	17'-8"	16'-8"	16'-1"	14'-6"	18'-3"	17'-3"	16'-3"	14'-6"
	NI-40x	19'-1"	17'-9"	17'-1"	15'-5"	19'-8"	18'-3"	17'-3"	15'-5"
	NI-60	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-8"	17'-0"
	NI-80	20'-9"	19'-2"	18'-3"	17'-5"	21'-3"	19'-8"	18'-9"	17'-10"
	NI-90	21'-2"	19'-7"	18'-8"	17'-9"	21'-8"	20'-1"	19'-1"	18'-1"
14"	NI-40x	21'-2"	19'-7"	18'-8"	16'-11"	21'-10"	20'-3"	18'-11"	16'-11"
	NI-60	21'-6"	19'-11"	19'-0"	18'-0"	22'-2"	20'-7"	19'-8"	18'-8"
	NI-80	23'-1"	21'-4"	20'-3"	19'-3"	23'-8"	21'-11"	20'-10"	19'-9"
	NI-90	23'-6"	21'-9"	20'-8"	19'-7"	24'-1"	22'-4"	21'-3"	20'-1"
16"	NI-60	23'-5"	21'-8"	20'-8"	19'-7"	24'-2"	22'-5"	21'-5"	20'-4"
	NI-80	25'-1"	23'-2"	22'-1"	20'-11"	25'-9"	23'-10"	22'-9"	21'-6"
	NI-90	25'-7"	23'-7"	22'-6"	21'-3"	26'-3"	24'-3"	23'-1"	21'-11"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-3"	12'-9"	17'-1"	15'-5"	14'-3"	12'-9"
	NI-40x	18'-6"	16'-7"	15'-1"	13'-6"	19'-0"	16'-7"	15'-1"	13'-6"
	NI-60	18'-9"	17'-7"	16'-10"	15'-6"	19'-2"	17'-10"	16'-10"	15'-6"
	NI-80	20'-0"	18'-7"	17'-10"	17'-1"	20'-6"	19'-1"	18'-2"	17'-3"
11-7/8"	NI-20	20'-1"	17'-10"	16'-3"	14'-6"	20'-6"	17'-10"	16'-3"	14'-6"
	NI-40x	21'-8"	18'-10"	17'-3"	15'-5"	21'-10"	18'-10"	17'-3"	15'-5"
	NI-60	21'-11"	20'-5"	19'-6"	17'-8"	22'-6"	21'-0"	19'-9"	17'-8"
	NI-80	23'-5"	21'-9"	20'-9"	19'-8"	23'-11"	22'-3"	21'-3"	20'-2"
	NI-90	23'-11"	22'-2"	21'-1"	20'-0"	24'-4"	22'-8"	21'-8"	20'-6"
14"	NI-40x	24'-0"	20'-9"	18'-11"	16'-11"	24'-0"	20'-9"	18'-11"	16'-11"
	NI-60	24'-8"	22'-11"	21'-8"	19'-5"	25'-3"	23'-7"	21'-8"	19'-5"
	NI-80	26'-3"	24'-5"	23'-3"	22'-0"	26'-10"	25'-0"	23'-10"	22'-0"
	NI-90	26'-9"	24'-10"	23'-8"	22'-0"	27'-4"	25'-5"	24'-3"	22'-0"
16"	NI-60	27'-1"	25'-2"	23'-4"	20'-11"	27'-9"	25'-7"	23'-4"	20'-11"
	NI-80	28'-10"	26'-10"	25'-6"	23'-6"	29'-6"	27'-6"	26'-3"	23'-6"
	NI-90	29'-5"	27'-3"	26'-0"	23'-6"	30'-0"	27'-11"	26'-8"	23'-6"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H3.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	23/32 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-4"	15'-5"	14'-2"	12'-8"	16'-10"	15'-7"	14'-2"	12'-8"
	NI-40x	17'-6"	16'-5"	15'-0"	13'-5"	17'-11"	16'-6"	15'-0"	13'-5"
	NI-60	17'-8"	16'-7"	16'-0"	14'-4"	18'-1"	17'-0"	16'-5"	14'-4"
	NI-80	18'-11"	17'-7"	16'-11"	14'-4"	19'-5"	17'-11"	17'-3"	14'-4"
11-7/8"	NI-20	18'-6"	17'-4"	16'-2"	14'-5"	19'-3"	17'-9"	16'-2"	14'-5"
	NI-40x	20'-1"	18'-7"	17'-2"	15'-4"	20'-8"	18'-10"	17'-2"	15'-4"
	NI-60	20'-4"	18'-10"	18'-0"	17'-3"	21'-0"	19'-6"	18'-7"	17'-7"
	NI-80	21'-10"	20'-2"	19'-3"	17'-10"	22'-5"	20'-9"	19'-9"	17'-10"
	NI-90	22'-4"	20'-7"	19'-7"	18'-7"	22'-10"	21'-2"	20'-2"	19'-1"
14"	NI-40x	22'-3"	20'-7"	18'-10"	16'-10"	23'-0"	20'-8"	18'-10"	16'-10"
	NI-60	22'-8"	20'-11"	20'-0"	18'-11"	23'-4"	21'-8"	20'-8"	18'-11"
	NI-80	24'-4"	22'-5"	21'-4"	20'-1"	24'-11"	23'-1"	22'-0"	20'-1"
	NI-90	24'-10"	22'-11"	21'-9"	20'-3"	25'-5"	23'-6"	22'-5"	20'-3"
16"	NI-60	24'-8"	22'-10"	21'-9"	19'-8"	25'-5"	23'-8"	22'-7"	19'-8"
	NI-80	26'-6"	24'-5"	23'-3"	21'-11"	27'-2"	25'-2"	24'-0"	21'-11"
	NI-90	27'-0"	24'-11"	23'-8"	21'-11"	27'-8"	25'-7"	24'-5"	21'-11"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-11"	15'-7"	14'-2"	12'-8"	18'-0"	15'-7"	14'-2"	12'-8"
	NI-40x	19'-1"	16'-6"	15'-0"	13'-5"	19'-1"	16'-6"	15'-0"	13'-5"
	NI-60	19'-7"	18'-3"	17'-3"	14'-4"	20'-2"	18'-9"	17'-3"	14'-4"
	NI-80	21'-0"	19'-6"	18'-0"	14'-4"	21'-6"	20'-0"	18'-0"	14'-4"
11-7/8"	NI-20	20'-6"	17'-9"	16'-2"	14'-5"	20'-6"	17'-9"	16'-2"	14'-5"
	NI-40x	21'-9"	18'-10"	17'-2"	15'-4"	21'-9"	18'-10"	17'-2"	15'-4"
	NI-60	23'-0"	21'-5"	19'-8"	17'-7"	23'-7"	21'-7"	19'-8"	17'-7"
	NI-80	24'-7"	22'-10"	21'-9"	17'-10"	25'-1"	23'-5"	22'-4"	17'-10"
	NI-90	25'-1"	23'-3"	22'-2"	20'-3"	25'-7"	23'-10"	22'-8"	20'-3"
14"	NI-40x	23'-11"	20'-8"	18'-10"	16'-10"	23'-11"	20'-8"	18'-10"	16'-10"
	NI-60	25'-10"	23'-8"	21'-7"	18'-11"	26'-6"	23'-8"	21'-7"	18'-11"
	NI-80	27'-7"	25'-7"	24'-5"	20'-1"	28'-2"	26'-3"	25'-1"	20'-1"
	NI-90	28'-1"	26'-1"	24'-10"	20'-3"	28'-8"	26'-8"	25'-4"	20'-3"
16"	NI-60	28'-4"	25'-6"	23'-4"	19'-8"	29'-1"	25'-6"	23'-4"	19'-8"
	NI-80	30'-3"	28'-1"	26'-9"	21'-11"	30'-11"	28'-10"	27'-6"	21'-11"
	NI-90	30'-10"	28'-7"	27'-3"	21'-11"	31'-5"	29'-4"	27'-6"	21'-11"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H4.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-11"	15'-0"	14'-3"	12'-9"	16'-5"	15'-5"	14'-3"	12'-9"
	NI-40x	17'-0"	16'-0"	15'-1"	13'-6"	17'-5"	16'-5"	15'-1"	13'-6"
	NI-60	17'-2"	16'-2"	15'-7"	14'-11"	17'-7"	16'-7"	16'-0"	15'-4"
	NI-80	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17'-5"	16'-9"	16'-1"
11-7/8"	NI-20	17'-11"	16'-11"	16'-3"	14'-6"	18'-7"	17'-5"	16'-3"	14'-6"
	NI-40x	19'-4"	17'-11"	17'-3"	15'-5"	19'-11"	18'-6"	17'-3"	15'-5"
	NI-60	19'-7"	18'-2"	17'-6"	16'-9"	20'-2"	18'-9"	17'-11"	17'-2"
	NI-80	21'-1"	19'-6"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
14"	NI-40x	21'-5"	19'-11"	18'-11"	16'-11"	22'-1"	20'-7"	18'-11"	16'-11"
	NI-60	21'-10"	20'-2"	19'-3"	18'-3"	22'-6"	20'-10"	19'-11"	18'-10"
	NI-80	23'-5"	21'-7"	20'-7"	19'-5"	24'-0"	22'-3"	21'-2"	20'-0"
	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
16"	NI-60	23'-9"	22'-0"	21'-0"	19'-10"	24'-6"	22'-9"	21'-8"	20'-7"
	NI-80	25'-6"	23'-7"	22'-5"	21'-2"	26'-2"	24'-3"	23'-1"	21'-10"
	NI-90	26'-0"	24'-0"	22'-10"	21'-6"	26'-7"	24'-8"	23'-5"	22'-2"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-3"	12'-9"	17'-1"	15'-5"	14'-3"	12'-9"
	NI-40x	18'-8"	16'-7"	15'-1"	13'-6"	19'-2"	16'-7"	15'-1"	13'-6"
	NI-60	18'-11"	17'-8"	16'-10"	15'-6"	19'-5"	17'-11"	16'-10"	15'-6"
	NI-80	20'-3"	18'-10"	17'-11"	17'-2"	20'-8"	19'-3"	18'-4"	17'-3"
11-7/8"	NI-20	20'-3"	17'-10"	16'-3"	14'-6"	20'-7"	17'-10"	16'-3"	14'-6"
	NI-40x	21'-10"	18'-10"	17'-3"	15'-5"	21'-10"	18'-10"	17'-3"	15'-5"
	NI-60	22'-1"	20'-7"	19'-8"	17'-8"	22'-8"	21'-2"	19'-9"	17'-8"
	NI-80	23'-8"	22'-0"	20'-11"	19'-10"	24'-1"	22'-6"	21'-6"	20'-4"
	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-8"
14"	NI-40x	24'-0"	20'-9"	18'-11"	16'-11"	24'-0"	20'-9"	18'-11"	16'-11"
	NI-60	24'-10"	23'-2"	21'-8"	19'-5"	25'-6"	23'-9"	21'-8"	19'-5"
	NI-80	26'-6"	24'-8"	23'-6"	22'-0"	27'-1"	25'-3"	24'-1"	22'-0"
	NI-90	27'-0"	25'-1"	23'-11"	22'-0"	27'-6"	25'-8"	24'-6"	22'-0"
16"	NI-60	27'-3"	25'-5"	23'-4"	20'-11"	28'-0"	25'-7"	23'-4"	20'-11"
	NI-80	29'-1"	27'-1"	25'-9"	23'-6"	29'-8"	27'-9"	26'-5"	23'-6"
	NI-90	29'-7"	27'-6"	26'-2"	23'-6"	30'-2"	28'-2"	26'-10"	23'-6"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H4.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-7"	15'-7"	14'-2"	12'-8"	17'-0"	15'-7"	14'-2"	12'-8"
	NI-40x	17'-8"	16'-6"	15'-0"	13'-5"	18'-2"	16'-6"	15'-0"	13'-5"
	NI-60	17'-10"	16'-10"	16'-2"	14'-4"	18'-4"	17'-3"	16'-7"	14'-4"
	NI-80	19'-2"	17'-9"	17'-1"	14'-4"	19'-8"	18'-3"	17'-6"	14'-4"
11-7/8"	NI-20	18'-10"	17'-7"	16'-2"	14'-5"	19'-6"	17'-9"	16'-2"	14'-5"
	NI-40x	20'-4"	18'-10"	17'-2"	15'-4"	21'-0"	18'-10"	17'-2"	15'-4"
	NI-60	20'-8"	19'-2"	18'-3"	17'-5"	21'-3"	19'-9"	18'-10"	17'-7"
	NI-80	22'-2"	20'-6"	19'-6"	17'-10"	22'-9"	21'-1"	20'-1"	17'-10"
	NI-90	22'-8"	20'-11"	19'-11"	18'-10"	23'-2"	21'-6"	20'-5"	19'-4"
14"	NI-40x	22'-7"	20'-8"	18'-10"	16'-10"	23'-4"	20'-8"	18'-10"	16'-10"
	NI-60	23'-0"	21'-3"	20'-3"	18'-11"	23'-8"	22'-0"	21'-0"	18'-11"
	NI-80	24'-8"	22'-9"	21'-8"	20'-1"	25'-3"	23'-5"	22'-4"	20'-1"
	NI-90	25'-2"	23'-3"	22'-1"	20'-3"	25'-9"	23'-10"	22'-9"	20'-3"
16"	NI-60	25'-0"	23'-2"	22'-1"	19'-8"	25'-10"	24'-0"	22'-11"	19'-8"
	NI-80	26'-10"	24'-10"	23'-7"	21'-11"	27'-7"	25'-6"	24'-4"	21'-11"
	NI-90	27'-5"	25'-3"	24'-0"	21'-11"	28'-1"	26'-0"	24'-9"	21'-11"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-0"	15'-7"	14'-2"	12'-8"	18'-0"	15'-7"	14'-2"	12'-8"
	NI-40x	19'-1"	16'-6"	15'-0"	13'-5"	19'-1"	16'-6"	15'-0"	13'-5"
	NI-60	19'-10"	18'-5"	17'-3"	14'-4"	20'-4"	18'-11"	17'-3"	14'-4"
	NI-80	21'-3"	19'-9"	18'-0"	14'-4"	21'-8"	20'-2"	18'-0"	14'-4"
11-7/8"	NI-20	20'-6"	17'-9"	16'-2"	14'-5"	20'-6"	17'-9"	16'-2"	14'-5"
	NI-40x	21'-9"	18'-10"	17'-2"	15'-4"	21'-9"	18'-10"	17'-2"	15'-4"
	NI-60	23'-2"	21'-7"	19'-8"	17'-7"	23'-10"	21'-7"	19'-8"	17'-7"
	NI-80	24'-9"	23'-0"	21'-11"	17'-10"	25'-4"	23'-7"	22'-4"	17'-10"
	NI-90	25'-3"	23'-6"	22'-4"	20'-3"	25'-9"	24'-0"	22'-11"	20'-3"
14"	NI-40x	23'-11"	20'-8"	18'-10"	16'-10"	23'-11"	20'-8"	18'-10"	16'-10"
	NI-60	26'-0"	23'-8"	21'-7"	18'-11"	26'-8"	23'-8"	21'-7"	18'-11"
	NI-80	27'-9"	25'-10"	24'-7"	20'-1"	28'-5"	26'-6"	25'-2"	20'-1"
	NI-90	28'-4"	26'-4"	25'-1"	20'-3"	28'-11"	26'-11"	25'-4"	20'-3"
16"	NI-60	28'-7"	25'-6"	23'-4"	19'-8"	29'-4"	25'-6"	23'-4"	19'-8"
	NI-80	30'-6"	28'-4"	27'-0"	21'-11"	31'-2"	29'-1"	27'-6"	21'-11"
	NI-90	31'-1"	28'-10"	27'-6"	21'-11"	31'-8"	29'-7"	27'-6"	21'-11"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H5.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	7/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-8"	15'-5"	14'-3"	12'-9"	17'-1"	15'-5"	14'-3"	12'-9"
	NI-40x	17'-9"	16'-7"	15'-1"	13'-6"	18'-2"	16'-7"	15'-1"	13'-6"
	NI-60	17'-11"	16'-11"	16'-3"	15'-6"	18'-5"	17'-3"	16'-8"	15'-6"
	NI-80	19'-3"	17'-10"	17'-2"	16'-5"	19'-8"	18'-3"	17'-6"	16'-9"
11-7/8"	NI-20	18'-11"	17'-8"	16'-3"	14'-6"	19'-7"	17'-10"	16'-3"	14'-6"
	NI-40x	20'-5"	18'-10"	17'-3"	15'-5"	21'-0"	18'-10"	17'-3"	15'-5"
	NI-60	20'-8"	19'-3"	18'-4"	17'-5"	21'-3"	19'-10"	18'-11"	17'-8"
	NI-80	22'-2"	20'-7"	19'-7"	18'-5"	22'-8"	21'-1"	20'-1"	18'-11"
	NI-90	22'-8"	21'-0"	19'-11"	18'-9"	23'-2"	21'-6"	20'-5"	19'-3"
14"	NI-40x	22'-7"	20'-9"	18'-11"	16'-11"	23'-3"	20'-9"	18'-11"	16'-11"
	NI-60	23'-0"	21'-4"	20'-4"	19'-2"	23'-8"	22'-0"	21'-0"	19'-5"
	NI-80	24'-8"	22'-10"	21'-8"	20'-5"	25'-3"	23'-5"	22'-4"	21'-0"
	NI-90	25'-2"	23'-3"	22'-1"	20'-10"	25'-8"	23'-10"	22'-8"	21'-5"
16"	NI-60	25'-1"	23'-3"	22'-1"	20'-10"	25'-9"	24'-0"	22'-11"	20'-11"
	NI-80	26'-10"	24'-10"	23'-7"	22'-3"	27'-6"	25'-6"	24'-3"	22'-11"
	NI-90	27'-4"	25'-4"	24'-1"	22'-7"	27'-11"	25'-11"	24'-8"	23'-3"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-3"	12'-9"	17'-1"	15'-5"	14'-3"	12'-9"
	NI-40x	19'-2"	16'-7"	15'-1"	13'-6"	19'-2"	16'-7"	15'-1"	13'-6"
	NI-60	19'-7"	18'-0"	16'-10"	15'-6"	19'-9"	18'-0"	16'-10"	15'-6"
	NI-80	20'-11"	19'-7"	18'-8"	17'-5"	21'-4"	19'-10"	18'-9"	17'-5"
11-7/8"	NI-20	20'-7"	17'-10"	16'-3"	14'-6"	20'-7"	17'-10"	16'-3"	14'-6"
	NI-40x	21'-10"	18'-10"	17'-3"	15'-5"	21'-10"	18'-10"	17'-3"	15'-5"
	NI-60	22'-10"	21'-4"	19'-9"	17'-8"	23'-5"	21'-6"	19'-9"	17'-8"
	NI-80	24'-5"	22'-9"	21'-9"	20'-5"	24'-11"	23'-4"	22'-3"	20'-5"
	NI-90	24'-11"	23'-3"	22'-2"	20'-10"	25'-4"	23'-9"	22'-8"	21'-2"
14"	NI-40x	24'-0"	20'-9"	18'-11"	16'-11"	24'-0"	20'-9"	18'-11"	16'-11"
	NI-60	25'-7"	23'-9"	21'-8"	19'-5"	26'-3"	23'-9"	21'-8"	19'-5"
	NI-80	27'-4"	25'-6"	24'-4"	22'-0"	27'-10"	26'-1"	24'-11"	22'-0"
	NI-90	27'-10"	26'-0"	24'-9"	22'-0"	28'-4"	26'-7"	25'-4"	22'-0"
16"	NI-60	28'-1"	25'-7"	23'-4"	20'-11"	28'-9"	25'-7"	23'-4"	20'-11"
	NI-80	29'-11"	27'-11"	26'-8"	23'-6"	30'-6"	28'-7"	27'-4"	23'-6"
	NI-90	30'-6"	28'-5"	27'-1"	23'-6"	31'-0"	29'-1"	27'-9"	23'-6"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H5.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	7/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-4"	15'-7"	14'-2"	12'-8"	17'-10"	15'-7"	14'-2"	12'-8"
	NI-40x	18'-7"	16'-6"	15'-0"	13'-5"	19'-1"	16'-6"	15'-0"	13'-5"
	NI-60	18'-10"	17'-7"	16'-11"	14'-4"	19'-4"	18'-0"	17'-3"	14'-4"
	NI-80	20'-3"	18'-9"	17'-10"	14'-4"	20'-8"	19'-3"	18'-0"	14'-4"
11-7/8"	NI-20	19'-10"	17'-9"	16'-2"	14'-5"	20'-6"	17'-9"	16'-2"	14'-5"
	NI-40x	21'-6"	18'-10"	17'-2"	15'-4"	21'-9"	18'-10"	17'-2"	15'-4"
	NI-60	21'-9"	20'-3"	19'-3"	17'-7"	22'-5"	20'-10"	19'-8"	17'-7"
	NI-80	23'-4"	21'-8"	20'-7"	17'-10"	23'-11"	22'-3"	21'-2"	17'-10"
	NI-90	23'-10"	22'-1"	21'-0"	19'-9"	24'-5"	22'-8"	21'-7"	20'-3"
14"	NI-40x	23'-10"	20'-8"	18'-10"	16'-10"	23'-11"	20'-8"	18'-10"	16'-10"
	NI-60	24'-3"	22'-6"	21'-5"	18'-11"	24'-11"	23'-2"	21'-7"	18'-11"
	NI-80	26'-0"	24'-1"	22'-10"	20'-1"	26'-7"	24'-8"	23'-6"	20'-1"
	NI-90	26'-6"	24'-6"	23'-4"	20'-3"	27'-1"	25'-2"	23'-11"	20'-3"
16"	NI-60	26'-5"	24'-6"	23'-4"	19'-8"	27'-2"	25'-3"	23'-4"	19'-8"
	NI-80	28'-3"	26'-2"	24'-11"	21'-11"	28'-11"	26'-11"	25'-7"	21'-11"
	NI-90	28'-10"	26'-8"	25'-4"	21'-11"	29'-6"	27'-4"	26'-1"	21'-11"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-0"	15'-7"	14'-2"	12'-8"	18'-0"	15'-7"	14'-2"	12'-8"
	NI-40x	19'-1"	16'-6"	15'-0"	13'-5"	19'-1"	16'-6"	15'-0"	13'-5"
	NI-60	20'-6"	18'-11"	17'-3"	14'-4"	21'-1"	18'-11"	17'-3"	14'-4"
	NI-80	22'-0"	20'-6"	18'-0"	14'-4"	22'-5"	21'-0"	18'-0"	14'-4"
11-7/8"	NI-20	20'-6"	17'-9"	16'-2"	14'-5"	20'-6"	17'-9"	16'-2"	14'-5"
	NI-40x	21'-9"	18'-10"	17'-2"	15'-4"	21'-9"	18'-10"	17'-2"	15'-4"
	NI-60	23'-11"	21'-7"	19'-8"	17'-7"	24'-7"	21'-7"	19'-8"	17'-7"
	NI-80	25'-7"	23'-11"	22'-4"	17'-10"	26'-2"	24'-6"	22'-4"	17'-10"
	NI-90	26'-1"	24'-4"	23'-3"	20'-3"	26'-7"	24'-11"	23'-9"	20'-3"
14"	NI-40x	23'-11"	20'-8"	18'-10"	16'-10"	23'-11"	20'-8"	18'-10"	16'-10"
	NI-60	26'-10"	23'-8"	21'-7"	18'-11"	27'-5"	23'-8"	21'-7"	18'-11"
	NI-80	28'-8"	26'-9"	25'-2"	20'-1"	29'-3"	27'-5"	25'-2"	20'-1"
	NI-90	29'-2"	27'-3"	25'-4"	20'-3"	29'-9"	27'-10"	25'-4"	20'-3"
16"	NI-60	29'-5"	25'-6"	23'-4"	19'-8"	29'-6"	25'-6"	23'-4"	19'-8"
	NI-80	31'-5"	29'-4"	27'-6"	21'-11"	32'-1"	30'-1"	27'-6"	21'-11"
	NI-90	32'-0"	29'-10"	27'-6"	21'-11"	32'-10"	30'-6"	27'-6"	21'-11"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H6.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"	-
	NI-40x	15'-11"	15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	-
	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-1"	-
	NI-80	17'-1"	16'-1"	15'-6"	-	17'-5"	16'-5"	15'-10"	-
11-7/8"	NI-20	16'-9"	15'-10"	15'-4"	-	17'-4"	16'-4"	15'-10"	-
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-6"	17'-4"	16'-9"	-
	NI-60	18'-1"	17'-0"	16'-5"	-	18'-9"	17'-6"	16'-11"	-
	NI-80	19'-6"	18'-0"	17'-4"	-	20'-1"	18'-7"	17'-9"	-
	NI-90	19'-11"	18'-4"	17'-8"	-	20'-5"	18'-11"	18'-1"	-
14"	NI-40x	19'-10"	18'-4"	17'-8"	-	20'-6"	19'-1"	18'-3"	-
	NI-60	20'-2"	18'-8"	17'-11"	-	20'-10"	19'-4"	18'-6"	-
	NI-80	21'-8"	20'-0"	19'-1"	-	22'-4"	20'-8"	19'-9"	-
	NI-90	22'-1"	20'-5"	19'-6"	-	22'-9"	21'-0"	20'-1"	-
16"	NI-60	22'-0"	20'-4"	19'-6"	-	22'-9"	21'-1"	20'-2"	-
	NI-80	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-6"	-
	NI-90	24'-1"	22'-2"	21'-2"	-	24'-9"	22'-11"	21'-10"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-9"	15'-5"	14'-3"	-	16'-10"	15'-5"	14'-3"	-
	NI-40x	17'-9"	16'-7"	15'-1"	-	18'-2"	16'-7"	15'-1"	-
	NI-60	17'-11"	16'-11"	16'-5"	-	18'-5"	17'-4"	16'-7"	-
	NI-80	19'-3"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	-
11-7/8"	NI-20	19'-4"	17'-10"	16'-3"	-	20'-0"	17'-10"	16'-3"	-
	NI-40x	20'-10"	18'-10"	17'-3"	-	21'-5"	18'-10"	17'-3"	-
	NI-60	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-3"	-
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	-
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	-
14"	NI-40x	23'-5"	20'-9"	18'-11"	-	24'-0"	20'-9"	18'-11"	-
	NI-60	23'-9"	22'-0"	21'-0"	-	24'-5"	22'-8"	21'-8"	-
	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	-
	NI-90	25'-10"	23'-11"	22'-9"	-	26'-5"	24'-6"	23'-4"	-
16"	NI-60	26'-2"	24'-3"	23'-2"	-	26'-11"	25'-0"	23'-4"	-
	NI-80	27'-11"	25'-10"	24'-7"	-	28'-7"	26'-6"	25'-3"	-
	NI-90	28'-5"	26'-3"	25'-0"	-	29'-0"	26'-11"	25'-8"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H6.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-6"	14'-7"	14'-2"	-	16'-0"	15'-1"	14'-2"	-
	NI-40x	16'-7"	15'-7"	15'-0"	-	17'-0"	16'-1"	15'-0"	-
	NI-60	16'-9"	15'-9"	15'-3"	-	17'-2"	16'-2"	15'-8"	-
	NI-80	17'-9"	16'-8"	16'-2"	-	18'-3"	17'-1"	16'-6"	-
11-7/8"	NI-20	17'-5"	16'-5"	15'-11"	-	18'-0"	17'-0"	16'-2"	-
	NI-40x	18'-10"	17'-6"	16'-11"	-	19'-5"	18'-1"	17'-2"	-
	NI-60	19'-1"	17'-9"	17'-1"	-	19'-9"	18'-4"	17'-7"	-
	NI-80	20'-6"	19'-0"	18'-2"	-	21'-2"	19'-7"	18'-8"	-
	NI-90	21'-0"	19'-4"	18'-6"	-	21'-7"	19'-11"	19'-1"	-
14"	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-7"	20'-1"	18'-10"	-
	NI-60	21'-3"	19'-8"	18'-10"	-	22'-0"	20'-5"	19'-6"	-
	NI-80	22'-10"	21'-1"	20'-2"	-	23'-6"	21'-9"	20'-10"	-
	NI-90	23'-4"	21'-6"	20'-7"	-	24'-0"	22'-2"	21'-2"	-
16"	NI-60	23'-2"	21'-5"	20'-6"	-	24'-0"	22'-3"	21'-4"	-
	NI-80	24'-11"	23'-0"	21'-11"	-	25'-8"	23'-9"	22'-8"	-
	NI-90	25'-5"	23'-5"	22'-4"	-	26'-2"	24'-2"	23'-1"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-3"	15'-7"	14'-2"	-	17'-9"	15'-7"	14'-2"	-
	NI-40x	18'-7"	16'-6"	15'-0"	-	19'-1"	16'-6"	15'-0"	-
	NI-60	18'-9"	17'-6"	16'-11"	-	19'-3"	18'-0"	17'-3"	-
	NI-80	20'-2"	18'-8"	17'-10"	-	20'-7"	19'-2"	18'-0"	-
11-7/8"	NI-20	20'-2"	17'-9"	16'-2"	-	20'-6"	17'-9"	16'-2"	-
	NI-40x	21'-9"	18'-10"	17'-2"	-	21'-9"	18'-10"	17'-2"	-
	NI-60	22'-1"	20'-6"	19'-7"	-	22'-8"	21'-1"	19'-8"	-
	NI-80	23'-7"	21'-10"	20'-11"	-	24'-2"	22'-5"	21'-5"	-
	NI-90	24'-1"	22'-4"	21'-3"	-	24'-8"	22'-10"	21'-10"	-
14"	NI-40x	23'-11"	20'-8"	18'-10"	-	23'-11"	20'-8"	18'-10"	-
	NI-60	24'-10"	23'-1"	21'-7"	-	25'-7"	23'-8"	21'-7"	-
	NI-80	26'-7"	24'-7"	23'-5"	-	27'-2"	25'-3"	24'-1"	-
	NI-90	27'-1"	25'-1"	23'-11"	-	27'-8"	25'-8"	24'-6"	-
16"	NI-60	27'-5"	25'-5"	23'-4"	-	28'-2"	25'-6"	23'-4"	-
	NI-80	29'-3"	27'-1"	25'-10"	-	29'-11"	27'-10"	26'-6"	-
	NI-90	29'-9"	27'-7"	26'-3"	-	30'-5"	28'-3"	26'-11"	-

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H7.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-10"	15'-0"	14'-3"	12'-9"	16'-4"	15'-5"	14'-3"	12'-9"
	NI-40x	16'-11"	15'-11"	15'-1"	13'-6"	17'-4"	16'-4"	15'-1"	13'-6"
	NI-60	17'-1"	16'-1"	15'-6"	14'-10"	17'-6"	16'-6"	15'-11"	15'-3"
	NI-80	18'-1"	17'-0"	16'-4"	15'-8"	18'-7"	17'-4"	16'-8"	16'-0"
11-7/8"	NI-20	17'-10"	16'-10"	16'-2"	14'-6"	18'-5"	17'-4"	16'-3"	14'-6"
	NI-40x	19'-3"	17'-10"	17'-2"	15'-5"	19'-10"	18'-5"	17'-3"	15'-5"
	NI-60	19'-6"	18'-1"	17'-4"	16'-8"	20'-1"	18'-8"	17'-10"	17'-1"
	NI-80	20'-11"	19'-4"	18'-5"	17'-7"	21'-5"	19'-10"	18'-11"	17'-11"
	NI-90	21'-4"	19'-9"	18'-9"	17'-10"	21'-10"	20'-3"	19'-3"	18'-3"
14"	NI-40x	21'-4"	19'-9"	18'-10"	16'-11"	22'-0"	20'-5"	18'-11"	16'-11"
	NI-60	21'-8"	20'-1"	19'-2"	18'-2"	22'-4"	20'-9"	19'-9"	18'-9"
	NI-80	23'-3"	21'-6"	20'-5"	19'-4"	23'-10"	22'-1"	21'-0"	19'-11"
	NI-90	23'-9"	21'-11"	20'-10"	19'-8"	24'-3"	22'-6"	21'-5"	20'-3"
16"	NI-60	23'-7"	21'-10"	20'-10"	19'-9"	24'-4"	22'-7"	21'-7"	20'-5"
	NI-80	25'-4"	23'-5"	22'-3"	21'-1"	26'-0"	24'-1"	22'-11"	21'-8"
	NI-90	25'-10"	23'-10"	22'-8"	21'-5"	26'-5"	24'-6"	23'-4"	22'-0"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-3"	12'-9"	17'-1"	15'-5"	14'-3"	12'-9"
	NI-40x	18'-7"	16'-7"	15'-1"	13'-6"	19'-1"	16'-7"	15'-1"	13'-6"
	NI-60	18'-10"	17'-7"	16'-10"	15'-6"	19'-4"	17'-11"	16'-10"	15'-6"
	NI-80	20'-2"	18'-9"	17'-11"	17'-2"	20'-7"	19'-2"	18'-3"	17'-3"
11-7/8"	NI-20	20'-3"	17'-10"	16'-3"	14'-6"	20'-7"	17'-10"	16'-3"	14'-6"
	NI-40x	21'-9"	18'-10"	17'-3"	15'-5"	21'-10"	18'-10"	17'-3"	15'-5"
	NI-60	22'-0"	20'-6"	19'-7"	17'-8"	22'-7"	21'-1"	19'-9"	17'-8"
	NI-80	23'-6"	21'-10"	20'-10"	19'-9"	24'-0"	22'-5"	21'-4"	20'-3"
	NI-90	24'-0"	22'-4"	21'-3"	20'-1"	24'-6"	22'-10"	21'-9"	20'-7"
14"	NI-40x	24'-0"	20'-9"	18'-11"	16'-11"	24'-0"	20'-9"	18'-11"	16'-11"
	NI-60	24'-9"	23'-0"	21'-8"	19'-5"	25'-5"	23'-9"	21'-8"	19'-5"
	NI-80	26'-5"	24'-6"	23'-4"	22'-0"	27'-0"	25'-2"	24'-0"	22'-0"
	NI-90	26'-11"	25'-0"	23'-10"	22'-0"	27'-5"	25'-7"	24'-5"	22'-0"
16"	NI-60	27'-2"	25'-4"	23'-4"	20'-11"	27'-11"	25'-7"	23'-4"	20'-11"
	NI-80	29'-0"	26'-11"	25'-8"	23'-6"	29'-7"	27'-7"	26'-4"	23'-6"
	NI-90	29'-6"	27'-5"	26'-1"	23'-6"	30'-1"	28'-1"	26'-9"	23'-6"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.

NORDIC STRUCTURES

Maximum Floor Spans – H7.2, L/360

Design Criteria

Spans:	Multiple spans
Loads:	Live load = 40 psf and dead load = 35 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare				1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-5"	15'-7"	14'-2"	12'-8"	16'-11"	15'-7"	14'-2"	12'-8"
	NI-40x	17'-7"	16'-6"	15'-0"	13'-5"	18'-0"	16'-6"	15'-0"	13'-5"
	NI-60	17'-9"	16'-9"	16'-1"	14'-4"	18'-3"	17'-2"	16'-6"	14'-4"
	NI-80	19'-1"	17'-8"	17'-0"	14'-4"	19'-6"	18'-1"	17'-5"	14'-4"
11-7/8"	NI-20	18'-8"	17'-6"	16'-2"	14'-5"	19'-5"	17'-9"	16'-2"	14'-5"
	NI-40x	20'-3"	18'-9"	17'-2"	15'-4"	20'-10"	18'-10"	17'-2"	15'-4"
	NI-60	20'-6"	19'-0"	18'-2"	17'-4"	21'-2"	19'-8"	18'-9"	17'-7"
	NI-80	22'-0"	20'-4"	19'-5"	17'-10"	22'-7"	20'-11"	19'-11"	17'-10"
	NI-90	22'-6"	20'-9"	19'-9"	18'-9"	23'-1"	21'-4"	20'-4"	19'-3"
14"	NI-40x	22'-5"	20'-8"	18'-10"	16'-10"	23'-2"	20'-8"	18'-10"	16'-10"
	NI-60	22'-10"	21'-2"	20'-2"	18'-11"	23'-6"	21'-10"	20'-10"	18'-11"
	NI-80	24'-6"	22'-8"	21'-6"	20'-1"	25'-1"	23'-3"	22'-2"	20'-1"
	NI-90	25'-0"	23'-1"	21'-11"	20'-3"	25'-7"	23'-9"	22'-7"	20'-3"
16"	NI-60	24'-11"	23'-0"	21'-11"	19'-8"	25'-8"	23'-10"	22'-9"	19'-8"
	NI-80	26'-8"	24'-8"	23'-5"	21'-11"	27'-5"	25'-4"	24'-2"	21'-11"
	NI-90	27'-2"	25'-1"	23'-11"	21'-11"	27'-10"	25'-10"	24'-7"	21'-11"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	18'-0"	15'-7"	14'-2"	12'-8"	18'-0"	15'-7"	14'-2"	12'-8"
	NI-40x	19'-1"	16'-6"	15'-0"	13'-5"	19'-1"	16'-6"	15'-0"	13'-5"
	NI-60	19'-9"	18'-4"	17'-3"	14'-4"	20'-3"	18'-11"	17'-3"	14'-4"
	NI-80	21'-1"	19'-8"	18'-0"	14'-4"	21'-7"	20'-1"	18'-0"	14'-4"
11-7/8"	NI-20	20'-6"	17'-9"	16'-2"	14'-5"	20'-6"	17'-9"	16'-2"	14'-5"
	NI-40x	21'-9"	18'-10"	17'-2"	15'-4"	21'-9"	18'-10"	17'-2"	15'-4"
	NI-60	23'-1"	21'-6"	19'-8"	17'-7"	23'-9"	21'-7"	19'-8"	17'-7"
	NI-80	24'-8"	22'-11"	21'-10"	17'-10"	25'-3"	23'-6"	22'-4"	17'-10"
	NI-90	25'-2"	23'-5"	22'-3"	20'-3"	25'-8"	23'-11"	22'-10"	20'-3"
14"	NI-40x	23'-11"	20'-8"	18'-10"	16'-10"	23'-11"	20'-8"	18'-10"	16'-10"
	NI-60	25'-11"	23'-8"	21'-7"	18'-11"	26'-7"	23'-8"	21'-7"	18'-11"
	NI-80	27'-8"	25'-9"	24'-6"	20'-1"	28'-3"	26'-5"	25'-2"	20'-1"
	NI-90	28'-3"	26'-2"	24'-11"	20'-3"	28'-9"	26'-10"	25'-4"	20'-3"
16"	NI-60	28'-6"	25'-6"	23'-4"	19'-8"	29'-3"	25'-6"	23'-4"	19'-8"
	NI-80	30'-5"	28'-3"	26'-11"	21'-11"	31'-1"	29'-0"	27'-6"	21'-11"
	NI-90	30'-11"	28'-9"	27'-4"	21'-11"	31'-7"	29'-5"	27'-6"	21'-11"

Notes:

1. The tabulated clear spans are based on CSA O86:19 and are applicable to residential floor construction meeting the above design criteria.
2. The vibration-controlled span is determined using Clause A.5.4.5.2 b) of CSA O86:19.
3. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
4. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
5. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.