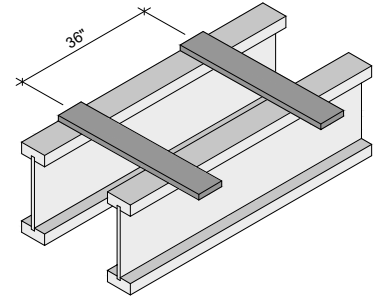


Allowable Ceiling Spans

This table represents the allowable simple spans of Nordic I-joists used as ceiling joists.



Design Criteria

Spans:	Simple span
Loads:	Live load (see below) and dead load = 10 psf
Deflection limit:	L/240 under total load and L/360 under live load

Allowable Ceiling Spans

Joist depth	Joist series	Live load = 20 psf On center spacing				Live load = 40 psf On center spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-40x	24'-10"	22'-2"	20'-3"	18'-1"	19'-6"	17'-2"	15'-8"	14'-0"
	NI-60	25'-4"	22'-11"	21'-6"	19'-11"	19'-11"	18'-0"	16'-10"	15'-7"
	NI-80	28'-4"	25'-7"	24'-1"	22'-3"	22'-3"	20'-1"	18'-10"	17'-5"
11-7/8"	NI-40x	29'-2"	25'-3"	23'-1"	20'-7"	22'-7"	19'-7"	17'-10"	15'-11"
	NI-60	30'-4"	27'-6"	25'-9"	23'-8"	23'-10"	21'-7"	20'-3"	18'-4"
	NI-80	33'-9"	30'-7"	28'-8"	26'-6"	26'-6"	24'-0"	22'-6"	20'-9"
	NI-90	34'-10"	31'-6"	29'-7"	27'-4"	27'-4"	24'-9"	23'-2"	21'-5"
14"	NI-40x	32'-1"	27'-9"	25'-4"	22'-8"	24'-10"	21'-6"	19'-7"	17'-6"
	NI-60	34'-7"	31'-4"	29'-1"	26'-0"	27'-2"	24'-7"	22'-6"	20'-1"
	NI-80	38'-4"	34'-9"	32'-8"	30'-2"	30'-2"	27'-4"	25'-7"	23'-8"
	NI-90	39'-6"	35'-9"	33'-7"	31'-1"	31'-1"	28'-1"	26'-4"	24'-4"
16"	NI-60	38'-5"	34'-4"	31'-4"	28'-0"	30'-3"	26'-7"	24'-3"	21'-8"
	NI-80	42'-7"	38'-7"	36'-2"	33'-6"	33'-6"	30'-4"	28'-5"	26'-3"
	NI-90	43'-9"	39'-8"	37'-2"	34'-5"	34'-5"	31'-2"	29'-2"	27'-0"

Notes:

- The tabulated clear spans are applicable to residential ceiling construction meeting the above design criteria, assuming no additional thrust load is applied to the joist.
- The allowable spans are based on 2018 NDS and 2018 IRC, for I-joists supporting uninhabitable attics with limited storage as defined in 2018 IRC Table R301.5.
- Minimum bearing length shall be 1-3/4 inch.
- Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- The top flange shall be braced at minimum 36 inches on center.