

	- 1								
Slope of	1/4:12 t	o 4:12	Slope o	f >4:12 t	o 8:12	Slope of >8:12 to 12:12			
On Center Spacing			On C	enter Spa	icing	On Center Spacing			
12"	16"	24"	12"	16"	24"	12"	16"	24"	
22'-0"	19'-11"	17'-4"	20'-8"	18'-9"	16'-3"	19'-1"	17'-3"	15'-0"	
25'-3"	22'-10"	19'-1"	23'-8"	21'-6"	18'-6"	21'-10"	19'-10"	17'-3"	
25'-9"	23'-4"	20'-3"	24'-2"	21'-11"	19'-0"	22'-4"	20'-2"	17'-7"	
28'-2"	25'-6"	22'-2"	26'-6"	24'-0"	20'-10"	24'-5"	22'-2"	19'-3"	
28'-10"	26'-1"	22'-8"	27'-1"	24'-6"	21'-3"	25'-0"	22'-7"	19'-8"	
26'-7"	24'-1"	20'-6"	25'-0"	22'-7"	19'-8"	23'-0"	20'-10"	18'-2"	
30'-2"	26'-8"	21'-9"	28'-4"	25'-8"	21'-1"	26'-2"	23'-9"	20'-3"	
30'-10"	27'-11"	24'-4"	29'-0"	26'-3"	22'-10"	26'-9"	24'-3"	21'-1"	
33'-8"	30'-6"	26'-6"	31'-8"	28'-8"	24'-11"	29'-2"	26'-5"	23'-0"	
34'-4"	31'-1"	27'-0"	32'-3"	29'-3"	25'-5"	29'-9"	27'-0"	23'-6"	
35'-5"	32'-1"	27'-11"	33'-4"	30'-2"	26'-3"	30'-9"	27'-10"	24'-3"	
35'-9"	32'-4"	28'-1"	33'-7"	30'-5"	26'-5"	31'-0"	28'-1"	24'-5"	
33'-10"	29'-4"	23'-10"	32'-2"	28'-5"	23'-2"	29'-8"	26'-11"	22'-3"	
35'-2"	31'-10"	27'-5"	33'-0"	29'-11"	26'-0"	30'-6"	27'-8"	24'-0"	
38'-3"	34'-7"	30'-1"	35'-11"	32'-6"	28'-3"	33'-1"	30'-0"	26'-1"	
39'-1"	35'-5"	30'-9"	36'-9"	33'-3"	28'-11"	33'-11"	30'-8"	26'-9"	
40'-3"	36'-6"	31'-8"	37'-10"	34'-3"	29'-9"	34'-11"	31'-8"	27'-6"	
40'-9"	36'-11"	32'-1"	38'-3"	34'-8"	30'-2"	35'-4"	32'-0"	27'-10"	
39'-1"	35'-5"	29'-6"	36'-9"	33'-3"	28'-8"	33'-11"	30'-8"	26'-9"	
42'-4"	38'-4"	33'-4"	39'-9"	36'-0"	31'-4"	36'-8"	33'-3"	28'-11"	
43'-4"	39'-3"	34'-2"	40'-9"	36'-11"	32'-1"	37'-7"	34'-1"	29'-8"	
44'-7"	40'-5"	35'-1"	41'-10"	37'-11"	33'-0"	38'-8"	35'-0"	30'-6"	

ad Load = 15 pst											
Slope of	1/4:12 t	o 4:12	Slope o	f >4:12 t	o 8:12	Slope of >8:12 to 12:12					
On Center Spacing			On C	enter Spo	ıcing	On Center Spacing					
12"	16"	24"	12"	16"	24"	12"	16"	24"			
20'-3"	18'-4"	15'-11"	19'-1"	17'-3"	15'-0"	17'-8"	16'-0"	13'-11"			
23'-2"	20'-8"	16'-10"	21'-10"	19'-10"	16'-5"	20'-4"	18'-5"	15'-11"			
23'-8"	21'-5"	18'-7"	22'-4"	20'-2"	17'-6"	20'-8"	18'-9"	16'-3"			
25'-11"	23'-5"	20'-4"	24'-5"	22'-1"	19'-2"	22'-8"	20'-6"	17'-10"			
26'-5"	23'-11"	20'-9"	25'-0"	22'-7"	19'-7"	23'-2"	21'-0"	18'-3"			
24'-5"	22'-2"	18'-1"	23'-0"	20'-10"	17'-8"	21'-5"	19'-4"	16'-10"			
27'-3"	23'-7"	19'-2"	26'-2"	23'-0"	18'-9"	24'-4"	22'-0"	18'-2"			
28'-4"	25'-8"	22'-0"	26'-9"	24'-3"	21'-1"	24'-10"	22'-6"	19'-7"			
30'-11"	28'-0"	24'-4"	29'-2"	26'-5"	23'-0"	27'-1"	24'-7"	21'-4"			
31'-7"	28'-7"	24'-10"	29'-9"	27'-0"	23'-5"	27'-8"	25'-1"	21'-9"			
32'-7"	29'-6"	25'-7"	30'-9"	27'-10"	24'-2"	28'-6"	25'-10"	22'-5"			
32'-10"	29'-8"	25'-9"	31'-0"	28'-0"	24'-4"	28'-9"	26'-0"	22'-8"			
29'-11"	25'-10"	21'-1"	29'-2"	25'-3"	20'-7"	27'-7"	24'-5"	19'-11"			
32'-4"	29'-3"	24'-2"	30'-6"	27'-7"	23'-7"	28'-4"	25'-8"	22'-4"			
35'-1"	31'-9"	27'-7"	33'-2"	30'-0"	26'-1"	30'-9"	27'-10"	24'-3"			
35'-11"	32'-6"	28'-3"	33'-11"	30'-8"	26'-8"	31'-5"	28'-6"	24'-9"			
37'-0"	33'-6"	29'-1"	34'-11"	31'-7"	27'-6"	32'-5"	29'-4"	25'-6"			
37'-5"	33'-11"	29'-5"	35'-4"	32'-0"	27'-10"	32'-10"	29'-9"	25'-10"			
35'-11"	32'-0"	26'-1"	33'-11"	30'-8"	25'-5"	31'-5"	28'-6"	24'-8"			
38'-11"	35'-3"	30'-3"	36'-8"	33'-3"	28'-11"	34'-1"	30'-10"	26'-10"			
39'-10"	36'-1"	31'-0"	37'-7"	34'-1"	29'-7"	34'-11"	31'-8"	27'-6"			
41'-0"	37'-1"	32'-2"	38'-8"	35'-0"	30'-5"	35'-11"	32'-6"	28'-3"			

	Joist Series	Slope of 1/4:12 to 4:12 On Center Spacing			Slope of >4:12 to 8:12 On Center Spacing			Slope of >8:12 to 12:12 On Center Spacing		
Joist Danth										
Depth		12"	16"	24"	12"	16"	24"	12"	16"	24"
	NI-20	18'-11"	17'-1"	14'-4"	17'-11"	16'-2"	14'-1"	16'-8"	15'-1"	13'-1"
	NI-40x	21'-7"	18'-8"	15'-3"	20'-6"	18'-4"	14'-11"	19'-1"	17'-3"	14'-6"
9-1/2"	NI-60	22'-1"	20'-0"	17'-4"	20'-11"	18'-11"	16'-5"	19'-6"	17'-7"	15'-4"
	NI-70	24'-2"	21'-10"	19'-0"	22'-11"	20'-9"	18'-0"	21'-4"	19'-4"	16'-9"
	NI-80	24'-8"	22'-4"	19'-4"	23'-5"	21'-2"	18'-4"	21'-9"	19'-9"	17'-1"
	NI-20	22'-10"	20'-1"	16'-5"	21'-7"	19'-7"	16'-1"	20'-1"	18'-3"	15'-8"
	NI-40x	24'-8"	21'-4"	17'-4"	24'-2"	20'-11"	17'-0"	22'-10"	20'-4"	16'-7"
11-7/8"	NI-60	26'-6"	24'-0"	19'-11"	25'-1"	22'-8"	19'-6"	23'-4"	21'-2"	18'-4"
	NI-70	28'-11"	26'-2"	22'-8"	27'-4"	24'-9"	21'-6"	25'-6"	23'-1"	20'-1"
	NI-80	29'-6"	26'-8"	23'-2"	27'-11"	25'-3"	21'-11"	26'-0"	23'-7"	20'-5"
	NI-90	30'-5"	27'-6"	23'-10"		26'-1"	22'-7"	26'-10"	24'-4"	21'-1"
	NI-90x	30'-8"	27'-9"	24'-0"	29'-0"	26'-3"	22'-9"	27'-0"	24'-6"	21'-3"
	NI-40x	27'-1"	23'-5"	19'-1"	26'-7"	23'-0"	18'-8"	25'-10"	22'-4"	18'-2"
	NI-60	30'-2"	26'-10"	21'-11"		25'-11"	21'-6"	26'-8"	24'-1"	20'-11
14"	NI-70	32'-10"	29'-8"	25'-5"	31'-0"	28'-1"	24'-5"	28'-11"	26'-2"	22'-9"
	NI-80	33'-7"	30'-4"	26'-1"	31'-9"	28'-9"	24'-11"	29'-7"	26'-10"	23'-3"
	NI-90	34'-7"	31'-3"	27'-1"	32'-8"	29'-7"	25'-8"	30'-6"	27'-7"	24'-0"
	NI-90x	35'-0"	31'-8"	27'-5"	33'-1"	30'-0"	26'-0"	30'-10"	27'-11"	24'-3"
	NI-60	33'-6"	28'-11"	23'-7"	31'-9"	28'-5"	23'-2"	29'-7"	26'-10"	22'-6"
16"	NI-70	36'-4"	32'-11"	26'-11"		31'-2"	26'-10"	32'-1"	29'-0"	25'-3"
10	NI-80	37'-3"	33'-8"	28'-1"	35'-3"	31'-11"	27'-7"	32'-10"	29'-9"	25'-10
	NI-90	38'-3"	34'-8"	30'-1"	36'-3"	32'-10"	28'-6"	33'-9"	30'-7"	26'-7"
	NI-90x	38'-11"	35'-2"	30'-6"	36'-10"	33'-4"	28'-11"	34'-4"	31'-1"	27'-0"

Joist Depth	Joist Series	Slope of 1/4:12 to 4:12 On Center Spacing			Slope of >4:12 to 8:12 On Center Spacing			Slope of >8:12 to 12:12 On Center Spacing		
		9-1/2"	NI-20	17'-9"	16'-1"	13'-2"	16'-11"	15'-4"	13'-0"	15'-10"
	NI-40x	19'-11"	17'-2"	14'-0"	19'-5"	16'-11"	13'-9"	18'-1"	16'-5"	13'-5"
	NI-60	20'-9"	18'-9"	16'-1"	19'-9"	17'-11"	15'-6"	18'-6"	16'-9"	14'-6"
	NI-70	22'-9"	20'-7"	17'-4"	21'-8"	19'-7"	17'-0"	20'-3"	18'-4"	15'-11
11-7/8"	NI-80	23'-3"	21'-0"	17'-7"	22'-1"	20'-0"	17'-4"	20'-8"	18'-9"	16'-3"
	NI-20	21'-5"	18'-6"	15'-1"	20'-5"	18'-2"	14'-10"	19'-1"	17'-3"	14'-6"
	NI-40x	22'-8"	19'-7"	16'-0"	22'-4"	19'-3"	15'-8"	21'-8"	18'-10"	15'-4"
	NI-60	24'-11"	22'-6"	18'-4"	23'-9"	21'-6"	18'-0"	22'-2"	20'-1"	17'-5"
	NI-70	27'-2"	24'-7"	21'-3"	25'-11"	23'-5"	20'-4"	24'-2"	21'-11"	19'-0"
	NI-80	27'-9"	25'-1"	21'-9"	26'-5"	23'-11"	20'-9"	24'-8"	22'-4"	19'-5"
	NI-90	28'-7"	25'-10"	22'-5"	27'-3"	24'-8"	21'-5"	25'-6"	23'-1"	20'-0"
	NI-90x	28'-10"	26'-1"	22'-7"	27'-5"	24'-10"	21'-6"	25'-8"	23'-3"	20'-2"
14"	NI-40x	24'-11"	21'-7"	17'-7"	24'-6"	21'-2"	17'-3"	23'-11"	20'-8"	16'-10
	NI-60	28'-5"	24'-9"	20'-2"	27'-1"	24'-4"	19'-10"	25'-3"	22'-11"	19'-4"
	NI-70	30'-10"	27'-11"	22'-9"	29'-5"	26'-7"	23'-0"	27'-6"	24'-10"	21'-7"
	NI-80	31'-6"	28'-6"	24'-0"	30'-1"	27'-2"	23'-7"	28'-1"	25'-5"	22'-1"
	NI-90	32'-6"	29'-5"	25'-6"	30'-11"	28'-0"	24'-4"	28'-11"	26'-2"	22'-9"
	NI-90x	32'-11"	29'-9"	25'-9"	31'-4"	28'-4"	24'-7"	29'-4"	26'-6"	23'-0"
16"	NI-60	30'-10"	26'-8"	21'-8"	30'-1"	26'-2"	21'-4"	28'-1"	25'-5"	20'-10
	NI-70	34'-2"	30'-11"	22'-9"	32'-7"	29'-6"	24'-9"	30'-5"	27'-7"	23'-11
	NI-80	35'-0"	31'-8"	24'-3"	33'-4"	30'-2"	25'-5"	31'-2"	28'-3"	24'-6"
	NI-90	36'-0"	32'-7"	28'-3"	34'-3"	31'-0"	26'-11"	32'-1"	29'-0"	25'-2"
	NI-90x	36'-7"	33'-1"	28'-8"	34'-10"	31'-6"	27'-4"	32'-7"	29'-6"	25'-7"

