

MAXIMUM BEAM SPAN - RESIDENTIAL DECKS (120 PSF LIVE LOAD / 10 PSF DEAD LOAD)												
Beam Size	Nominal Wall Thickness (in.)	Tributary Load Width										
		Tributary Width	Tributary Width	Tributary Width	Tributary Width	Tributary Width	Tributary Width	Tributary Width	Tributary Width	Tributary Width	Tributary Width	
1.5" x 3.5"	0.109	4'	5'	6'	7'	8'	9'	10'	11'	12'		
	0.083	5'-1"	4'-8"	4'-5"	4'-2"	4'-0"	3'-10"	3'-8"	3'-6"	3'-5"		
	0.065	4'-8"	4'-4"	4'-1"	3'-11"	3'-9"	3'-6"	3'-4"	3'-2"	3'-0"		
2 - 1.5" x 3.5"	0.109	4'-4"	4'-0"	3'-10"	3'-7"	3'-4"	3'-1"	2'-11"	2'-10"	2'-8"		
	0.083	5'-11"	5'-6"	5'-2"	4'-11"	4'-9"	4'-6"	4'-5"	4'-3"	4'-1"		
	0.065	5'-6"	5'-1"	4'-10"	4'-7"	4'-4"	4'-2"	4'-1"	3'-11"	3'-10"		
3 - 1.5" x 3.5"	0.109	5'-1"	4'-9"	4'-5"	4'-3"	4'-0"	3'-11"	3'-9"	3'-7"	3'-5"		
	0.083	6'-8"	6'-2"	5'-10"	5'-6"	5'-3"	5'-1"	4'-11"	4'-9"	4'-7"		
	0.065	6'-1"	5'-8"	5'-4"	5'-1"	4'-10"	4'-8"	4'-6"	4'-4"	4'-3"		
2" x 4"	0.109	5'-8"	5'-3"	4'-11"	4'-8"	4'-6"	4'-4"	4'-2"	4'-0"	3'-11"		
	0.083	6'-0"	5'-7"	5'-3"	5'-0"	4'-9"	4'-7"	4'-5"	4'-3"	4'-1"		
	0.065	5'-7"	5'-2"	4'-10"	4'-7"	4'-5"	4'-3"	4'-0"	3'-10"	3'-8"		
2 - 2" x 4"	0.109	7'-1"	6'-7"	6'-3"	5'-11"	5'-8"	5'-5"	5'-3"	5'-1"	4'-11"		
	0.083	6'-7"	6'-1"	5'-9"	5'-5"	5'-2"	5'-0"	4'-10"	4'-8"	4'-7"		
	0.065	7'-11"	7'-5"	6'-11"	6'-7"	6'-4"	6'-1"	5'-10"	5'-8"	5'-6"		
3 - 2" x 4"	0.109	7'-4"	6'-10"	6'-5"	6'-1"	5'-10"	5'-7"	5'-5"	5'-3"	5'-1"		
	0.083	8'-6"	7'-10"	7'-5"	7'-0"	6'-9"	6'-6"	6'-2"	5'-10"	5'-7"		
	0.065	7'-10"	7'-3"	6'-10"	6'-6"	6'-1"	5'-9"	5'-5"	5'-2"	5'-0"		
2" x 6"	0.109	9'-9"	9'-1"	8'-6"	8'-1"	7'-9"	7'-5"	7'-2"	7'-0"	6'-9"		
	0.083	9'-0"	8'-4"	7'-10"	7'-6"	7'-2"	6'-10"	6'-8"	6'-5"	6'-2"		
	0.065	10'-10"	10'-0"	9'-5"	9'-0"	8'-7"	8'-3"	7'-11"	7'-9"	7'-6"		
2 - 2" x 6"	0.109	9'-11"	9'-3"	8'-8"	8'-3"	7'-11"	7'-7"	7'-4"	7'-1"	6'-11"		

(Tributary width is the portion of the joist span supported by the beam)

The results provided herein were generated using recognized engineering principles and are for general information only. While believed to be accurate this information should not be used or relied upon for any specific application without competent professional examination and verification of its accuracy, suitability or applicability by a licensed professional engineer.

