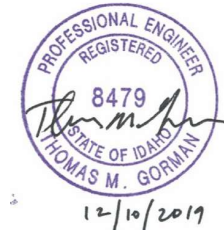
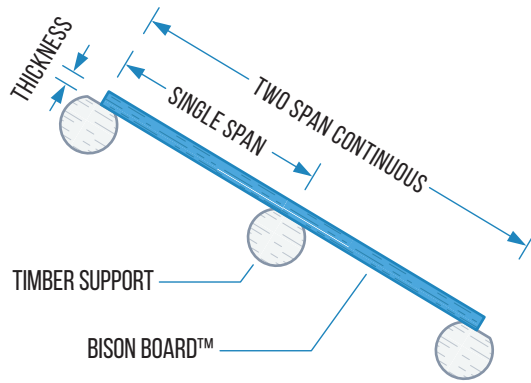


BISON BOARD™

These Span Tables were developed using No. 2 & better grade lumber using WWPA grade rules as an industry standard. Higher or lower grades are available, impacting the span values.

Single Span Bison Board™ is supported at two end points only.

Two Span Continuous Bison Board™ is supported at two end points and at one point inbetween.



PREPARED BY T. GORMAN PH.D., P.E.

SPAN TABLES

Maximum spans (feet, inches) limited by deflection of L/240

		Snow Load (psf)																			
		25		30		35		40		45		50		60		70		80		90	
Timber Species	Thickness	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span
IDAHO WHITE PINE, WESTERN RED CEDAR, & WESTERN WHITE WOOD	2 3/4"	12'3"	16'5"	11'5"	15'5"	10'11"	14'8"	10'5"	14'	10'	13'6"	9'8"	13'	9'1"	12'3"	8'8"	11'8"	8'3"	11'1"	7'11"	10'8"
	3 3/4"	16'8"	22'5"	15'8"	21'1"	14'11"	20'	14'3"	19'2"	13'9"	18'5"	13'3"	17'9"	12'5"	16'9"	11'10"	15'10"	11'4"	15'2"	10'11"	14'7"
	4 3/4"	21'2"	28'4"	19'11"	26'8"	18'11"	25'4"	18'1"	24'3"	17'5"	23'4"	16'9"	22'6"	15'9"	21'2"	15'	20'1"	14'4"	19'3"	13'9"	18'6"
DOUGLAS FIR & LARCH	2 3/4"	14'4"	19'2"	13'6"	18'1"	12'9"	17'2"	12'3"	16'5"	11'9"	15'9"	11'4"	15'3"	10'8"	14'4"	10'2"	13'7"	9'8"	13'	9'4"	12'6"
	3 3/4"	19'6"	26'2"	18'5"	24'8"	17'5"	23'5"	16'8"	22'5"	16'1"	21'6"	15'6"	20'9"	14'7"	19'7"	13'10"	18'7"	13'3"	17'9"	12'9"	17'1"
	4 3/4"	24'9"	33'2"	23'3"	31'3"	22'1"	29'8"	21'2"	28'5"	20'4"	27'3"	19'8"	26'4"	18'6"	24'9"	17'7"	23'6"	16'9"	22'6"	16'2"	21'8"

		Snow Load (psf)																						
		100		110		120		130		140		150		160		170		180		190		200		
		Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	
	7'8"	10'4"	7'5"	10'	7'2"	9'9"	7'1"	9'5"	6'10"	9'3"	6'8"	9'	6'6"	8'10"	6'5"	8'8"	6'3"	8'6"	6'2"	8'4"	6'1"	8'2"		
	10'6"	14'1"	10'2"	13'8"	9'11"	13'3"	9'7"	12'11"	9'5"	12'7"	9'2"	12'4"	9'	12'	8'9"	11'10"	8'7"	11'7"	8'6"	11'4"	8'4"	11'2"		
	13'4"	17'10"	12'11"	17'4"	12'6"	16'10"	12'2"	16'4"	11'11"	16'	11'7"	15'7"	11'5"	15'3"	11'2"	14'11"	10'11"	14'8"	10'9"	14'5"	10'7"	14'2"		
	9'	12'1"	8'9"	11'8"	8'6"	11'4"	8'3"	11'1"	8'	10'10"	7'10"	10'7"	7'8"	10'4"	7'6"	10'1"	7'5"	9'11"	7'3"	9'9"	7'2"	9'7"		
	12'3"	16'6"	11'11"	16'	11'7"	15'6"	11'3"	15'1"	11'	14'9"	10'9"	14'5"	10'6"	14'1"	10'3"	13'10"	10'1"	13'7"	9'11"	13'4"	9'9"	13'1"		
	15'7"	20'11"	15'1"	20'3"	14'8"	19'8"	14'3"	19'2"	13'11"	18'8"	13'7"	18'3"	13'4"	17'10"	13'1"	17'6"	12'10"	17'2"	12'7"	16'10"	12'4"	16'7"		