TABLE 5502.5(1) GIRDER SPANS[a] AND HEADER SPANS[a] FOR EXTERIOR BEARING WALLS
INTERPOLATED FOR 20 FEET TO 36 FEET
50 P.S.F. SNOW LOAD

GIRDERS & HEADERS SUPPORTING	SIZE	Building Width[c] (feet)																	
		20		22		24		26		28		30		32		34		36	
		Span	NJ[d]	Span	NJ[d]	Span	NJ[d]	Span	NJ[d]	Span	NJ[d]	Span	NJ[d]	Span	NJ[d]	Span	NJ[d]	Span	NJ[d]
Roof & ceiling	2-2x4	3-2	1	3-0	1	2-11	1	2-10	1	2-9	1	2-8	1	2-7	1	2-6	1	2-6	1
	2-2x6	4-8	1	4-6	1	4-4	1	4-2	1	4-1	1	3-11	1	3-10	1	3-9	2	3-8	2
	2-2x8	5-11	2	5-8	2	5-6	2	5-4	2	5-2	2	5-0	2	4-10	2	4-8	2	4-7	2
	2-2x10	7-3	2	7-0	2	6-9	2	6-6	2	6-3	2	6-2	2	5-11	2	5-9	2	5-7	2
	2-2x12	8-5	2	8-0	2	7-7	2	7-5	2	7-3	2	7-0	2	6-10	2	6-8	2	6-6	2
	3-2x8	7-5	1	7-2	1	7-0	1	6-8	2	6-5	2	6-3	2	6-1	2	5-11	2	5-9	2
	3-2x10	9-1	2	8-9	2	8-5	2	8-1	2	7-10	2	7-7	2	7-5	2	7-2	2	7-0	2
	3-2x12	10-7	2	10-2	2	9-10	2	9-6	2	9-2	2	8-11	2	8-8	2	8-5	2	8-2	2
	4-2x8	6-1	2	5-10	2	5-8	2	5-5	2	5-3	2	5-2	2	4-11	2	4-9	2	4-8	2
	4-2x10	10-6	1	10-1	1	9-9	2	9-5	2	9-1	2	8-10	2	8-7	2	8-4	2	8-2	2
	4-2x12	12-2	2	11-6	2	10-10	2	10-8	2	10-7	2	10-3	2	10-0	2	9-8	2	9-5	2
Roof,ceiling & one center-bearing floor	2-2x4	2-9	1	2-8	1	2-7	1	2-6	1	2-5	1	2-4	2	2-3	2	2-2	2	2-2	2
	2-2x6	4-1	1	3-11	1	3-9	1	3-8	2	3-7	2	3-6	2	3-5	2	3-4	2	3-3	2
	2-2x8	5-2	2	5-0	2	4-10	2	4-8	2	4-6	2	4-4	2	4-3	2	4-2	2	4-1	2
	2-2x10	6-4	2	6-1	2	5-11	2	5-8	2	5-6	2	5-4	2	5-3	2	5-1	2	5-0	2
	2-2x12	7-4	2	7-1	2	6-10	2	6-7	2	6-5	2	6-3	2	6-1	2	5-11	3	5-9	3
	3-2x8	6-5	2	6-2	2	6-0	2	5-10	2	5-8	2	5-6	2	5-4	2	5-2	2	5-1	2
	3-2x10	7-11	2	7-8	2	7-5	2	7-2	2	6-11	2	6-9	2	6-7	2	6-5	2	6-3	2
	3-2x12	9-2	2	8-10	2	8-7	2	8-3	2	8-0	2	7-9	2	7-7	2	7-5	2	7-3	2
	4-2x8	5-3	2	5-1	2	4-11	2	4-9	2	4-7	2	4-5	2	4-4	2	4-3	2	4-2	2
	4-2x10	9-1	2	8-9	2	8-6	2	8-3	2	8-0	2	7-9	2	7-7	2	7-4	2	7-2	2
	4-2x12	10-7	2	10-3	2	9-11	2	9-7	2	9-3	2	9-0	2	8-9	2	8-6	2	8-4	2
Roof,ceiling & one clear span floor	2-2x4	2-7	1	2-6	1	2-5	1	2-4	1	2-3	1	2-2	1	2-1	1	2-0	1	2-0	1
	2-2x6	3-10	2	3-8	2	3-7	2	3-5	2	3-4	2	3-3	2	3-2	2	3-1	2	3-0	2
	2-2x8	4-10	2	4-8	2	4-6	2	4-4	2	4-2	2	4-0	2	3-11	2	3-10	2	3-9	2
	2-2x10	5-11	2	5-8	2	5-6	2	5-3	2	5-1	2	4-11	2	4-10	2	4-8	3	4-7	3
	2-2x12	6-10	2	6-7	2	6-4	2	6-1	2	5-11	3	5-9	3	5-7	3	5-5	3	5-4	3
	3-2x8	6-1	2	5-10	2	5-8	2	5-5	2	5-3	2	5-2	2	4-11	2	4-9	2	4-8	2
	3-2x10	7-5	2	7-2	2	6-11	2	6-8	2	6-5	2	6-3	2	6-1	2	5-11	2	5-9	2
	3-2x12	8-7	2	8-3	2	8-0	2	7-8	2	7-5	2	7-2	2	7-0	2	6-10	2	6-8	2
	4-2x8	4-11	2	4-9	2	4-7	2	4-5	2	4-3	2	4-1	2	4-0	2	3-11	2	3-10	2
	4-2x10	8-7	2	8-3	2	8-0	2	7-8	2	7-5	2	7-2	2	7-0	2	6-9	2	6-7	2
	4-2x12	9-11	2	9-7	2	9-3	2	8-11	2	8-7	2	8-4	2	8-1	2	7-10	2	7-8	2
Roof,ceiling & two center-bearing floor	2-2x4	2-6	1	2-5	1	2-4	1	2-3	1	2-2	1	2-1	1	2-0	1	1-11	1	1-11	1
	2-2x6	3-8	2	3-6	2	3-5	2	3-3	2	3-2	2	3-1	2	3-0	2	2-11	2	2-10	2
	2-2x8	4-7	2	4-5	2	4-3	2	4-1	2	4-0	2	3-11	2	3-10	2	3-9	2	3-8	2
	2-2x10	5-8	2	5-5	2	5-3	2	5-1	2	4-11	2	4-9	2	4-8	2	4-6	3	4-5	3
	2-2x12	6-6	2	6-4	2	6-2	2	5-11	3	5-9	3	5-7	3	5-5	3	5-3	3	5-2	3
	3-2x8	5-9	2	5-7	2	5-5	2	5-3	2	5-1	2	4-11	2	4-10	2	4-8	2	4-7	2
	3-2x10	7-1	2	6-10	2	6-7	2	6-4	2	6-2	2	6-0	2	5-10	2	5-8	2	5-7	2
	3-2x12	8-2	2	7-11	2	7-8	2	7-5	2	7-2	2	6-11	2	6-9	2	6-7	3	6-5	3
	4-2x8	4-9	2	4-7	2	4-5	2	4-3	2	4-2	2	4-0	2	3-11	2	3-10	2	3-9	2
	4-2x10	8-2	2	7-11	2	7-8	2	7-5	2	7-2	2	6-11	2	6-9	2	6-7	2	6-5	2
	4-2x12	9-5	2	9-1	2	8-10	2	8-6	2	8-3	2	8-0	2	7-10	2	7-7	2	7-5	2
Roof,ceiling & two clear span floor	2-2x4	2-0	2	1-11	2	1-10	2	1-9	1	1-8	1	1-7	1	1-6	1	1-5	2	1-5	2
	2-2x6	3-0	2	2-10	2	2-9	2	2-8	2	2-7	2	2-6	2	2-5	2	2-4	2	2-3	2
	2-2x8	3-10	2	3-9	2	3-7	2	3-5	2	3-4	2	3-2	2	3-1	2	3-0	3	2-11	3
	2-2x10	4-8	2	4-6	2	4-4	2	4-2	3	4-0	3	3-10	3	3-9	3	3-8	3	3-7	3
	2-2x12	5-5	3	5-2	3	5-0	3	4-10	3	4-8	3	4-6	3	4-5	3	4-3	3	4-2	3
	3-2x8	4-9	2	4-7	2	4-5	2	4-3	2	4-1	2	3-11	2	3-10	2	3-9	2	3-8	2
	3-2x10	5-10	2	5-7	2	5-5	2	5-2	2	5-0	2	4-10	2	4-9	2	4-7	3	4-6	3
	3-2x12	6-9	2	6-6	2	6-3	2	6-0	3	5-10	3	5-8	3	5-6	3	5-4	3	5-3	3
	4-2x8	5-6	2	5-3	2	5-1	2	4-11	2	4-9	2	4-7	2	4-6	2	4-4	2	4-3	2
	4-2x10	6-9	2	6-6	2	6-3	2	6-0	2	5-10	2	5-8	2	5-6	2	5-4	2	5-2	2
	4-2x12	7-9	2	7-6	2	7-3	2	7-0	2	6-9	2	6-6	2	6-4	2	6-2	3	6-0	3

For SI: 1 inch = 25.4 MM, 1 POUND PER SQUARE FOOT = 0.0479 Kn/m^2.

a. Spans are given in feet and inches

b. Tabulated values assume #2 grade lumber: spruce-pine-fir

c. Building width is measured perpendicular to the ridge. For widths between those shown, spans are permitted to be interpolated.

d. NJ - Number of jack studs required to support each end. Where the number of required jack studs equals one, the header is permitted to be supported by an approved framing anchor attached to the full-height wall stud and to the header.