

Window Header Schedule

Permissible Headers Lengths

Single-Story Trussed Roof Applications

Live Load = 25 psf Dead Load = 15 psf

367-8670	•	Building Services	•	City of Sioux Falls	•	2000 IBC
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Member Size	Grade/Species	Roof Truss Span									
		18	20	22	24	26	28	30	32	34	36
2-2x8s	Hem Fir Select Structural	8'9"	8'4"	8'0"	7'9"	7'6"	7'3"	7'0"	6'10"	6'8"	6'6"
	Hem Fir #1 and Better	7'7"	7'3"	7'10"	6'9"	6'6"	6'3"	6'1"	5'11"	5'9"	5'7"
	Hem Fir #1	7'2"	6'11"	6'8"	6'4"	6'2"	6'0"	5'9"	5'8"	5'6"	5'4"
	Hem Fir #2	6'10"	6'6"	6'3"	6'0"	5'10"	5'8"	5'6"	5'4"	5'2"	5'0"
	Spruce Pine Fir Select Structural	8'3"	7'11"	7'7"	7'4"	7'1"	6'10"	6'8"	6'5"	6'3"	6'1"
	Spruce Pine Fir #1/#2	6'11"	6'7"	6'4"	6'1"	5'11"	5'9"	5'7"	5'5"	5'3"	5'1"
	Douglas Fir Larch Select Structural	8'11"	8'6"	8'2"	7'11"	7'7"	7'4"	7'2"	7'0"	6'9"	6'7"
	Douglas Fir Larch #1	7'5"	7'1"	6'10"	6'6"	6'4"	6'1"	5'11"	5'9"	5'8"	5'6"
	Douglas Fir Larch #2	6'11"	6'7"	6'4"	6'1"	5'11"	5'9"	5'7"	5'5"	5'3"	5'1"
2-2x10s	Hem Fir Select Structural	10'8"	10'3"	9'10"	9'6"	9'2"	8'10"	8'7"	8'4"	8'1"	7'11"
	Hem Fir #1 and Better	9'3"	8'10"	8'6"	8'2"	7'11"	7'8"	7'5"	7'3"	7'0"	6'10"
	Hem Fir #1	8'9"	8'5"	8'1"	7'10"	7'6"	7'4"	7'1"	6'10"	6'8"	6'6"
	Hem Fir #2	8'4"	8'0"	7'8"	7'3"	7'1"	6'11"	6'8"	6'6"	6'4"	6'2"
	Spruce Pine Fir Select Structural	10'1"	9'8"	9'3"	8'11"	8'8"	8'4"	8'1"	7'11"	7'8"	7'6"
	Spruce Pine Fir #1/#2	8'5"	8'1"	7'9"	7'6"	7'3"	7'0"	6'9"	6'7"	6'5"	6'3"
	Douglas Fir Larch Select Structural	10'8"	10'5"	10'0"	9'8"	9'4"	9'0"	8'9"	8'6"	8'3"	8'1"
	Douglas Fir Larch #1	9'0"	8'9"	8'4"	8'0"	7'9"	7'6"	7'3"	7'1"	6'10"	6'8"
	Douglas Fir Larch #2	8'5"	8'1"	7'9"	7'6"	7'3"	7'0"	6'9"	6'7"	6'5"	6'3"
2-2x12s	Hem Fir Select Structural	12'5"	11'10"	11'5"	11'0"	10'7"	10'3"	10'0"	9'8"	9'5"	9'2"
	Hem Fir #1 and Better	10'9"	10'4"	9'10"	9'6"	9'2"	8'11"	8'8"	8'5"	8'2"	8'0"
	Hem Fir #1	10'4"	9'9"	9'5"	9'1"	8'9"	8'5"	8'3"	8'0"	7'9"	7'7"
	Hem Fir #2	9'8"	9'3"	8'11"	8'7"	8'3"	8'0"	7'9"	7'6"	7'4"	7'2"
	Spruce Pine Fir Select Structural	11'9"	11'3"	10'9"	10'5"	10'0"	9'9"	9'5"	9'2"	8'11"	8'8"
	Spruce Pine Fir #1/#2	9'10"	9'4"	9'0"	8'8"	8'5"	8'1"	7'10"	7'8"	7'5"	7'3"
	Douglas Fir Larch Select Structural	12'7"	12'1"	11'7"	11'2"	10'9"	10'6"	10'2"	9'9"	9'7"	9'4"
	Douglas Fir Larch #1	10'6"	10'2"	9'8"	9'3"	9'0"	8'8"	8'5"	8'2"	8'0"	7'9"
	Douglas Fir Larch #2	9'10"	9'4"	9'0"	8'8"	8'5"	8'1"	7'10"	7'8"	7'6"	7'3"
3-2x8s	Hem Fir Select Structural	10'9"	10'3"	9'10"	9'6"	9'2"	8'11"	8'7"	8'3"	8'2"	7'11"
	Hem Fir #1 and Better	9'3"	8'11"	8'6"	8'3"	7'11"	7'8"	7'6"	7'3"	7'1"	6'10"
	Hem Fir #1	8'10"	8'6"	8'1"	7'10"	7'7"	7'4"	7'1"	6'11"	6'8"	6'6"
	Hem Fir #2	8'4"	8'0"	4'8"	7'5"	7'2"	6'11"	6'8"	6'8"	6'4"	6'2"
	Spruce Pine Fir Select Structural	10'2"	9'8"	9'4"	9'0"	8'8"	8'5"	8'2"	7'11"	7'8"	7'6"
	Spruce Pine Fir #1/#2	8'6"	8'1"	7'9"	7'6"	7'3"	7'0"	6'10"	6'7"	6'5"	6'3"
	Douglas Fir Larch Select Structural	10'11"	10'3"	10'0"	9'8"	9'4"	9'0"	8'9"	8'6"	8'4"	8'1"
	Douglas Fir Larch #1	9'1"	8'8"	8'4"	8'0"	7'9"	7'6"	7'4"	7'1"	6'11"	6'8"
	Douglas Fir Larch #2	8'6"	8'1"	7'9"	7'6"	7'3"	7'0"	6'10"	6'7"	6'5"	6'3"
3-2x10s	Hem Fir Select Structural	13'1"	12'6"	12'0"	11'7"	11'3"	10'10"	10'6"	10'3"	10'0"	9'9"
	Hem Fir #1 and Better	11'4"	10'10"	10'5"	10'0"	9'0"	9'5"	9'1"	8'10"	8'8"	8'5"
	Hem Fir #1	10'9"	10'4"	9'11"	9'7"	9'3"	8'11"	8'8"	8'5"	8'2"	8'0"
	Hem Fir #2	10'2"	9'9"	9'4"	9'0"	8'9"	8'6"	8'2"	8'0"	7'9"	7'7"
	Spruce Pine Fir Select Structural	12'3"	11'10"	11'4"	11'0"	10'7"	10'3"	9'11"	9'8"	9'5"	9'2"
	Spruce Pine Fir #1/#2	10'4"	9'11"	9'6"	9'2"	8'10"	8'7"	8'4"	8'1"	7'10"	7'8"
	Douglas Fir Larch Select Structural	13'4"	12'9"	12'3"	11'10"	11'5"	11'1"	10'9"	10'5"	10'2"	9'10"
	Douglas Fir Larch #1	11'1"	10'7"	10'2"	9'10"	9'6"	9'2"	8'11"	8'8"	8'5"	8'2"
	Douglas Fir Larch #2	10'4"	9'11"	9'6"	9'3"	8'10"	8'7"	8'4"	8'1"	7'10"	7'8"
3-2x12s	Hem Fir Select Structural	15'2"	15'7"	14'0"	13'7"	13'0"	12'7"	12'3"	11'10"	11'7"	11'3"
	Hem Fir #1 and Better	13'2"	12'7"	12'1"	11'8"	11'3"	10'11"	10'7"	10'3"	10'0"	9'9"
	Hem Fir #1	12'6"	12'0"	11'6"	11'1"	10'8"	10'4"	10'1"	9'9"	9'6"	9'3"
	Hem Fir #2	11'10"	11'4"	10'11"	10'6"	10'1"	9'10"	9'6"	9'3"	9'0"	8'9"
	Spruce Pine Fir Select Structural	14'4"	13'9"	13'2"	12'9"	12'3"	11'11"	11'6"	11'3"	10'11"	10'8"
	Spruce Pine Fir #1/#2	12'0"	11'6"	11'0"	10'8"	10'3"	9'11"	9'8"	9'4"	9'2"	8'11"
	Douglas Fir Larch Select Structural	15'6"	14'10"	14'9"	13'8"	13'3"	12'10"	12'5"	12'1"	11'9"	11'6"
	Douglas Fir Larch #1	12'10"	12'3"	11'10"	11'4"	11'0"	10'8"	10'4"	10'0"	9'9"	9'6"
	Douglas Fir Larch #2	12'0"	11'6"	11'0"	10'8"	10'3"	9'11"	9'8"	9'4"	9'2"	8'11"

Laminated Veneer Lumber Roof Headers

Note: Flexural stresses are based on 2,800 psi. Refer to the manufacturer's engineered specifications for LVLs having fiber stresses other than 2,800 psi.

Number of 1¾-inch LVLs

Single Story Trussed Roof Applications

Live Load = 25 psf Dead Load = 15 psf

	367-8670	•	Building Services					•	City of Sioux Falls					•	2000 IBC	
Truss Span	LVL Size		8	9	10	11	12	13	14	15	16	17	18			
18	9.25	1	1	1	1	1	2	2	2	3	3	4	4			
	9.5	1	1	1	1	2	2	2	2	3	3	4	4			
	11.25	1	1	1	1	1	1	1	1	2	2	2	2			
	11.875	1	1	1	1	1	1	1	1	1	2	2	2			
	14.0	1	1	1	1	1	1	1	1	1	1	1	2			
20	9.25	1	1	1	2	2	2	2	3	3	4	4	4			
	9.5	1	1	1	1	2	2	2	2	3	3	3	4			
	11.25	1	1	1	1	1	2	2	2	2	2	2	3			
	11.875	1	1	1	1	1	1	2	2	2	2	2	2			
	14.0	1	1	1	1	1	1	1	1	1	2	2	2			
22	9.25	1	1	1	2	2	2	3	3	4	4	4	5			
	9.5	1	1	1	2	2	2	2	3	3	4	4	4			
	11.25	1	1	1	1	1	2	2	2	2	2	3	3			
	11.875	1	1	1	1	1	1	2	2	2	2	2	2			
	14.0	1	1	1	1	1	1	1	1	1	2	2	2			
24	9.25	1	1	1	2	2	2	3	3	3	4	4	5			
	9.5	1	1	1	2	2	2	2	3	3	4	4	5			
	11.25	1	1	1	1	2	2	2	2	2	2	3	3			
	11.875	1	1	1	1	1	2	2	2	2	2	2	2			
	14.0	1	1	1	1	1	1	1	1	2	2	2	2			
26	9.25	1	1	2	2	2	2	3	3	4	5	5	5			
	9.5	1	1	2	2	2	2	3	3	4	4	4	5			
	11.25	1	1	1	1	2	2	2	2	2	2	3	3			
	11.875	1	1	1	1	2	2	2	2	2	2	3	3			
	14.0	1	1	1	1	1	1	1	1	2	2	2	2			
28	9.25	1	1	2	2	2	2	3	3	4	5	5	6			
	9.5	1	1	1	2	2	2	3	3	4	4	5	6			
	11.25	1	1	1	1	2	2	2	2	3	3	3	3			
	11.875	1	1	1	1	2	2	2	2	2	2	3	3			
	14.0	1	1	1	1	1	1	1	2	2	2	2	2			
30	9.25	1	1	2	2	2	3	3	3	4	5	5	6			
	9.5	1	1	2	2	2	2	3	3	4	4	5	5			
	11.25	1	1	1	2	2	2	2	2	3	3	3	3			
	11.875	1	1	1	2	2	2	2	2	3	3	3	3			
	14.0	1	1	1	1	1	1	2	2	2	2	2	2			
32	9.25	1	2	2	2	2	3	3	4	5	6	7	7			
	9.5	1	2	2	2	2	3	3	4	4	5	6	6			
	11.25	1	1	1	2	2	2	2	3	3	3	4	4			
	11.875	1	1	1	1	2	2	2	2	3	3	3	3			
	14.0	1	1	1	1	1	2	2	2	2	2	2	2			
34	9.25	1	2	2	2	2	3	4	4	5	6	7	7			
	9.5	1	1	2	2	2	3	3	4	5	6	6	6			
	11.25	1	1	1	2	2	2	2	3	3	4	4	4			
	11.875	1	1	1	2	2	2	2	2	3	3	4	4			
	14.0	1	1	1	1	1	1	2	2	2	2	2	2			
36	9.25	1	2	2	2	3	3	4	4	5	6	7	7			
	9.5	1	2	2	2	2	3	3	4	5	6	7	7			
	11.25	1	1	2	2	2	2	2	3	3	4	4	4			
	11.875	1	1	1	2	2	2	2	2	3	3	3	4			