

RMT: Allowable Axial Compression Column Loads in pounds
Douglas Fir

RMT™	Nominal Size	Grade	Nominal Grade Effective Column Length (feet)																
			6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Columns Floor Loads LDF = 1.00	4 x 4	Sel Str	11,686	9,190	7,310	5,913	4,864	4,063	3,441	2,949	2,554	-	-	-	-	-	-		
		No. 1	10,415	8,202	6,530	5,284	4,348	3,633	3,077	2,637	2,284	-	-	-	-	-	-		
	6 x 6	Sel Str	29,328	27,518	25,291	22,786	20,226	17,807	15,639	13,753	12,137	10,759	9,585	8,581	7,720	6,977	6,334	5,773	
		No. 1	26,031	24,721	23,078	21,156	19,086	17,029	15,107	13,385	11,876	10,570	9,445	8,475	7,638	6,913	6,283	5,732	
	6 x 8	Sel Str	38,660	36,273	33,338	30,036	26,661	23,472	20,614	18,129	15,999	14,183	12,635	11,312	10,177	9,198	8,349	7,609	
		No. 1	34,314	32,586	30,421	27,887	25,159	22,447	19,914	17,643	15,655	13,933	12,450	11,172	10,069	9,113	8,282	7,555	

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			6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Columns Roof Loads LDF = 1.15 (Snow)	4 x 4	Sel Str	12,099	9,393	7,419	5,977	4,904	4,089	3,459	2,961	2,563	-	-	-	-	-	-		
		No. 1	10,791	8,388	6,629	5,342	4,384	3,656	3,093	2,649	2,293	-	-	-	-	-	-		
	6 x 6	Sel Str	32,886	30,401	27,440	24,277	21,221	18,466	16,083	14,059	12,354	10,917	9,702	8,670	7,789	7,031	6,377	5,807	
		No. 1	29,328	27,518	25,291	22,786	20,226	17,807	15,639	13,753	12,137	10,759	9,585	8,581	7,720	6,977	6,334	5,773	
	6 x 8	Sel Str	43,350	40,074	36,171	32,002	27,973	24,342	21,200	18,533	16,284	14,390	12,789	11,429	10,267	9,269	8,405	7,655	
		No. 1	38,660	36,273	33,338	30,036	26,661	23,472	20,614	18,129	15,999	14,183	12,635	11,312	10,177	9,198	8,349	7,609	

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			6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Columns Roof Loads LDF = 1.25 (Non-Snow)	4 x 4	Sel Str	12,313	9,497	7,476	6,010	4,924	4,103	3,468	2,968	2,568	-	-	-	-	-	-		
		No. 1	10,986	8,483	6,681	5,372	4,403	3,669	3,101	2,655	2,297	-	-	-	-	-	-		
	6 x 6	Sel Str	35,115	32,129	28,662	25,087	21,744	18,808	16,311	14,216	12,465	10,998	9,762	8,716	7,824	7,059	6,399	5,825	
		No. 1	31,422	29,232	26,585	23,695	20,837	18,214	15,913	13,942	12,271	10,857	9,657	8,636	7,763	7,011	6,360	5,794	
	6 x 8	Sel Str	46,288	42,352	37,781	33,069	28,663	24,792	21,501	18,740	16,431	14,497	12,869	11,490	10,314	9,306	8,435	7,679	
		No. 1	41,420	38,534	35,044	31,234	27,467	24,009	20,976	18,379	16,175	14,311	12,730	11,384	10,232	9,241	8,384	7,638	

Notes:

1. Tabulated loads are for simple wood columns subjected to concentric compression loads only. For columns with non-concentric loads or bending loads, the tabulated load do not apply.
2. Table assumes simple column unbraced except at the ends and the effective column length is equal to the actual column.
3. Shaded areas are those having slenderness ratios (length/thickness) exceeding 50. The National Design Specification for Wood Construction limits solid wood columns to slenderness ratio not exceeding 50 (NDS 2001 Section 3.7.1.4).