

TABLES FOR COMBINED TRANSVERSE AND AXIAL LOADS^{1,2,3,4}

ALLOWABLE UNIFORM AXIAL LOADS (PLF) FLOOR OR ROOF FRAMING MEMBERS SPACED AT 16" O.C.

7-7/8" thick wall panels

8' PANEL HEIGHT

PROFILE BOARD SPACING ⁵	TRANSVERSE WIND LOAD									
	5 psf	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf
4'-3 1/2"	2,918	2,828	2,737	2,646	2,556	2,465	2,375	2,284	2,193	2,103
8'-3 1/2"	2,424	2,315	2,205	2,096	1,987	1,878	1,769	1,660	1,550	1,441
EXCEEDS 8'-3 1/2"	1,860	1,698	1,535	1,373	1,210	1,047	885	722	559	397
	H/720		H/600	H/360	H/240			H/120		

PANEL HEIGHTS EXCEEDING 8' (PANEL WIDTH 8'-0") WITH NO INTERMEDIATE PROFILE BOARDS

HEIGHT	TRANSVERSE WIND LOAD									
	5 psf	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf
10'	2,913	2,796	2,679	2,561	2,444	2,327	2,209	2,092	1,975	1,857
12'	2,834	2,688	2,542	2,396	2,250	2,104	1,957	1,811	1,665	1,519
14'	2,755	2,580	2,405	2,230	2,055	1,880	1,706	1,531	1,356	1,181
16'	2,675	2,472	2,268	2,065	1,861	1,657	1,454	1,250	1,046	843
18'	2,596	2,364	2,131	1,899	1,667	1,434	1,202	969	737	505
20'	2,517	2,256	1,995	1,733	1,472	1,211	950	689	428	166
22'	2,438	2,148	1,858	1,568	1,278	988	698	408	118	
24'	2,358	2,040	1,721	1,402	1,084	765	446	127		
	H/720	H/600	H/360	H/240		H/120				

PANEL HEIGHTS EXCEEDING 8' (PANEL WIDTH 8'-0") WITH INTERMEDIATE PROFILE BOARD⁵

HEIGHT	TRANSVERSE WIND LOAD									
	5 psf	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf
10'	3,385	3,276	3,168	3,059	2,951	2,842	2,734	2,625	2,517	2,408
12'	3,238	3,100	2,961	2,823	2,684	2,546	2,407	2,268	2,130	1,991
14'	3,092	2,923	2,754	2,586	2,417	2,249	2,080	1,912	1,743	1,575
16'	2,945	2,746	2,548	2,349	2,151	1,952	1,753	1,555	1,356	1,158
18'	2,798	2,570	2,341	2,112	1,884	1,655	1,427	1,198	969	741
20'	2,652	2,393	2,134	1,876	1,617	1,358	1,100	841	583	324
22'	2,505	2,216	1,928	1,639	1,350	1,062	773	484	196	
24'	2,358	2,040	1,721	1,402	1,084	765	446	127		
	H/720	H/600	H/360	H/240		H/120				

¹ Bearing area of framing members must be equal to or greater than 11.8 in.²

² All heights shown are simple span.

³ No increase is permitted to the tabulated values for wind or seismic loading conditions.

⁴ Loading shown is for panels with no openings. Openings in panels must be engineered.

⁵ Profile boards are 3-1/2" wide x 7" deep Timberstrand PSL oriented vertically. For panel heights greater than 8', intermediate profile board is centered between panel edges.