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COLUMNS

LOAD TABLES

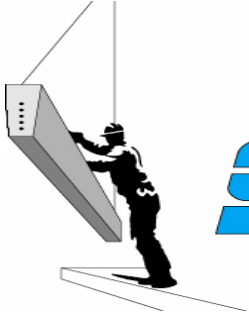
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About This Publication

To the best of our knowledge and understanding, the information given in this reference book is complete and accurate. This document is intended to guide the design professional while making his or her own preliminary evaluations of approximate depth, span, spacing and connections. The information given represents typical installations and applications for Structural Prestressed Industries Inc. (SPI) products. For applications requiring special loadings and or special serviceability requirements please contact SPI.

These guidelines are specific to Structural Prestressed Industries (SPI) precast/prestressed members and should never be used to evaluate members from other precast producers. These guidelines are not expressed nor implied warranties for other applications.

SPI encourages the Design and Construction Professionals to contact our Engineering Department for value engineering solutions and design build projects. Our team of experienced engineers, designers and project managers are available to assist you with all your needs.



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Colum Size	Design	Unbraced Height (ft)										
		8	10	12	14	16	18	20	22	24	26	28
16" x 16"	1% Mild Steel	450	420	400	375	345	310	270	240	210	180	165
	3% Mild Steel	580	530	500	470	430	380	340	305	265	230	200

Colum Size	Design	Unbraced Height (ft)										
		12	14	16	18	20	22	24	26	28	30	32
20" x 20"	1% Mild Steel	650	625	600	570	520	480	440	400	365	325	295
	3% Mild Steel	790	760	720	675	630	580	525	475	430	385	345

Colum Size	Design	Unbraced Height (ft)										
		14	16	18	20	22	24	26	28	30	32	34
24" x 24"	1% Mild Steel	950	920	895	860	820	770	720	670	600	575	510

These tables provide allowable superimposed service loads (in kips) based on the following assumptions:

- 1- These tables apply to single story "stick columns" supporting roof loads only.
- 2- Loads are based on Chapter 10 ACI 318-02 using minimum eccentricity and appropriate moment magnification factors.
- 3- Prestressed Concrete: $f'_c=6000$ psi
- 4- 30 psf of the allowable superimposed service load is considered live load.
- 5- These column designs are for gravity loads only. These columns do not have any lateral load capacity.

Disclaimer

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As far as the load tables provided in this web site, the information and data illustrated are intended to assist the designer in determining applicable prestressed members. They should not be construed as expressed nor implied warranties of suitability. The data is not reflective for unusual loads and stresses. Designers are encouraged to consult with S.P.I.'s Engineering Department for information on their specific project.