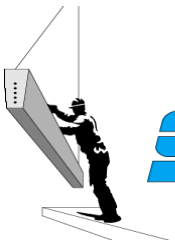

STRUCTURAL PRESTRESSED INDUSTRIES, INC.

FOR SPANS AND LOADS NOT SHOWN
IN TABLES CONTACT SPI ENGINEERING

CAMBER IS INHERENT TO PRESTRESSED MEMBERS. HEAVY LOADING AND LONG SPANS MAY RESULT IN HIGH CAMBERS. CONTACT SPI WITH ANY CAMBER CONCERNS.

11405 NW 112 CT (138th Street), Medley, Florida 33178
TEL (305) 556-6699 FAX (305) 556-9696 *www.spimiami.com*

28" PRESTRESSED KEYSTONE JOISTS 4.75" COMPOSITE SLAB

Spcg	Design	Span (ft)													Sys. Wt. (psf)
		54	55	56	57	58	59	60	61	62	64	66	68	70	
8'-8"	A	70	65	60	55	50	45								84
	B	100	90	85	80	75	70	65	60	55	50	45			
	C	125	115	105	95	85	80	75	70	65	60	55	**50**		

Spcg	Design	Span (ft)													Sys. Wt. (psf)
		54	55	56	57	58	59	60	61	62	63	64	65	66	
10'-8"	B	70	65	60	55	50	45								79
	C	90	85	80	75	70	65	60	55	50					
	D	100	95	90	85	80	75	70	65	60	**55**	**50**			

These tables provide allowable superimposed service loads (in psf) on the composite system based on the following assumptions:
1- Prestressed Concrete: f'c=6000psi
2- CIP Slab: f'c=4000psi
3- 20 psf of the allowable superimposed service load is considered dead load on the composite system
4- Load Factors as per ACI 318-02
5- Values in bold font are Class C based on computed extreme fiber stress at service loads as per ACI 318-02. Additional mild reinforcement may be required.
6- These design loads are based on 1 hour fire rating.