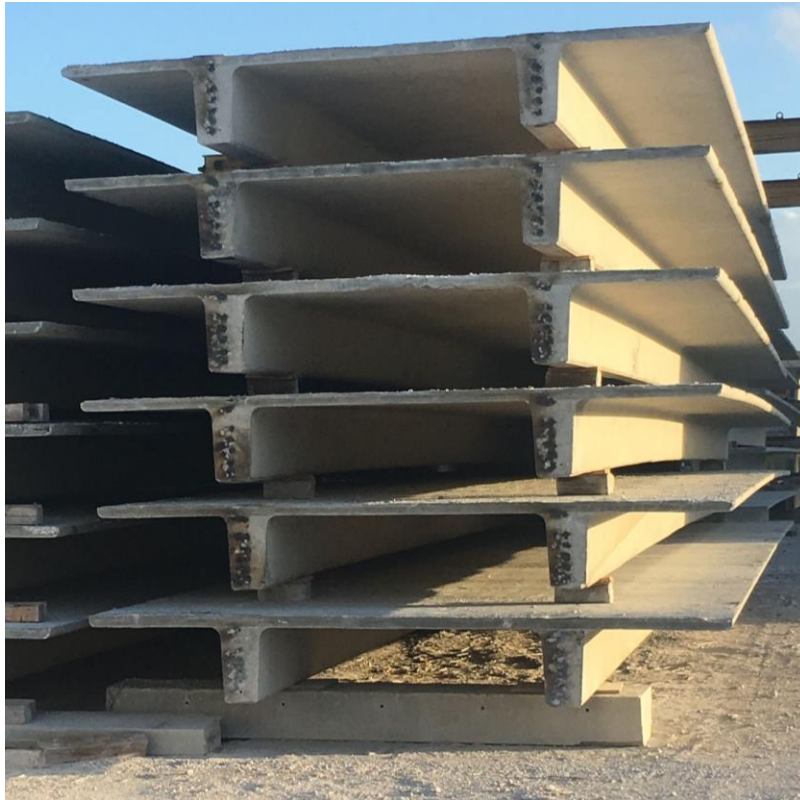




SPI STRUCTURAL
PRESTRESSED
INDUSTRIES, INC.



DOUBLE TEES LOAD TABLES

11405 N.W. 112th Court Medley, FL 33178

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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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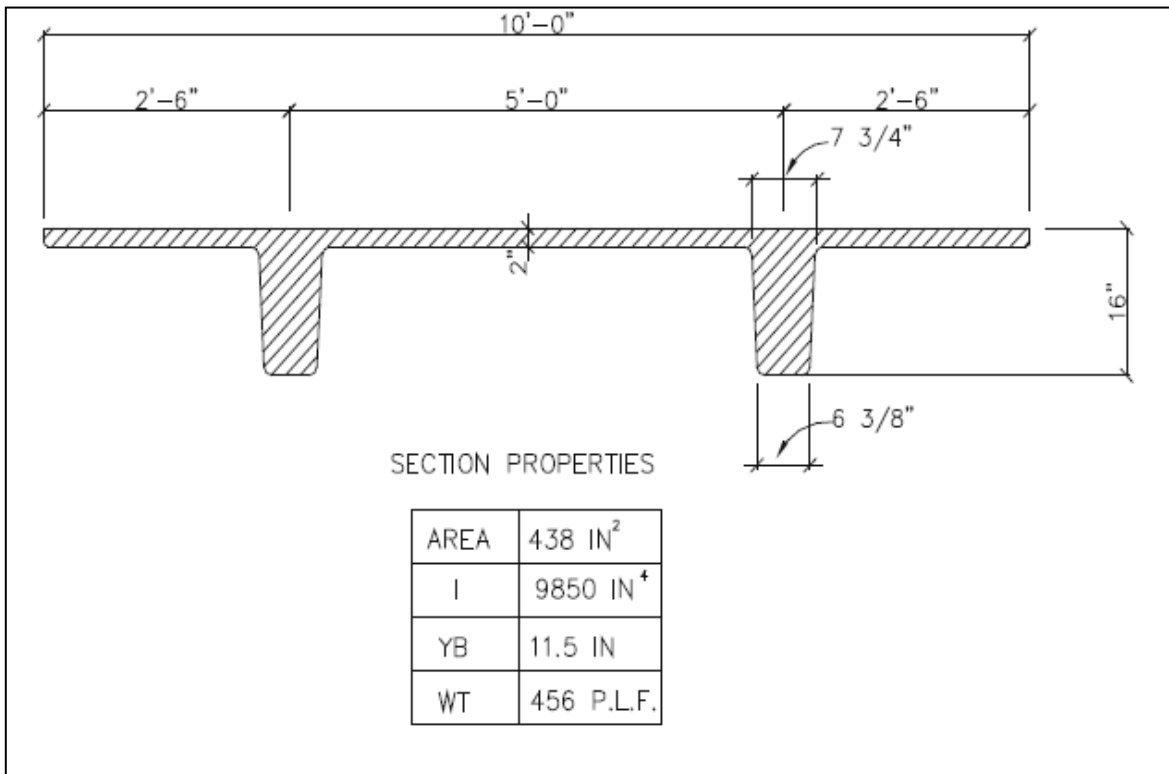


FOR SPANS AND LOADS NOT SHOWN IN TABLES CONTACT SPI ENGINEERING. CHECK WITH SPI ENGINEERING DEPARTMENT FOR CASES OF HIGH WIND UPLIFT.

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

11405 NW 112th Court Medley, Florida 33178
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16" PRESTRESSED ROOF DOUBLE TEE 10'-0" WIDE



STRAND PATTERN	SPAN (ft)															
	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
4-PL+ TOP	115	85	60	55	50											
6-1PL + TOP					90	75	60	55	50							
8-1PT+ TOP								75	65	60	50					
10-1PT+ TOP											65	55	50			
12-1PT+ TOP													65	55	50	
12-2PT+TOP															55	50

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

1. Prestressed Concrete: $f'_c=6000$ psi.
2. Service loads in the shaded boxes represent members with $f'_c > 4000$ psi and cambers over 2.75".
3. 20 psf of the allowable superimposed service load is considered dead load.
4. Loads are based on ACI 318-19.

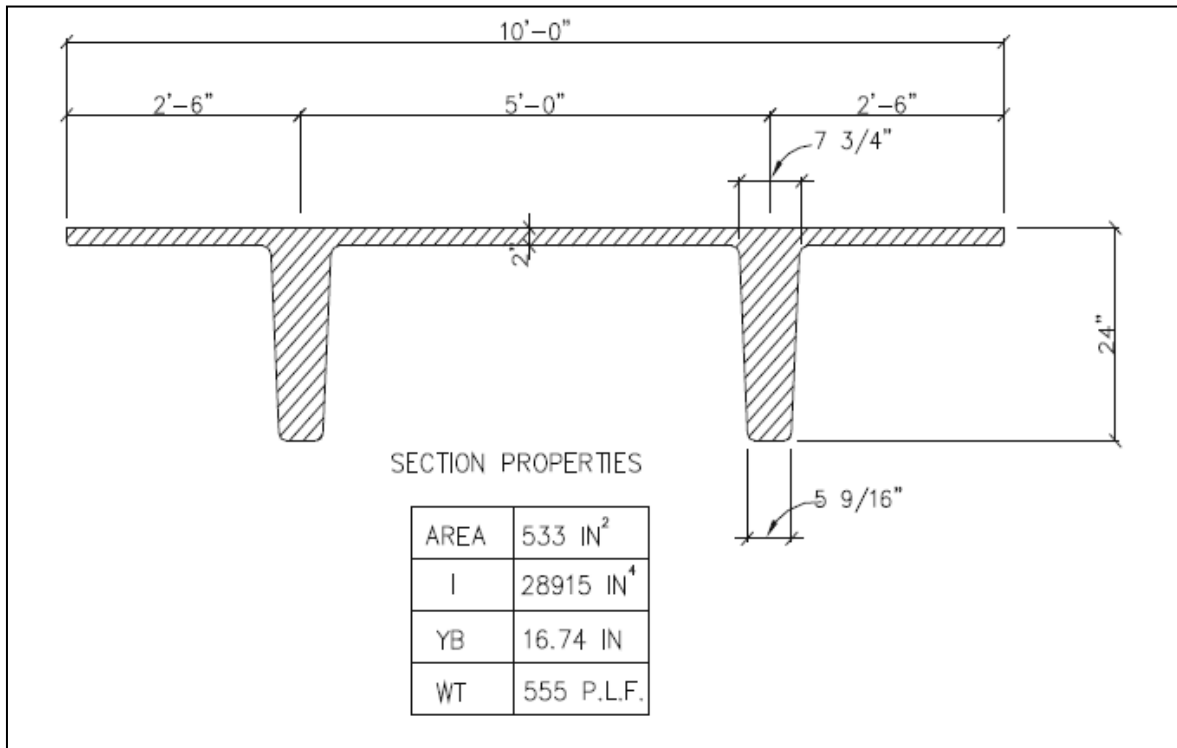


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24" PRESTRESSED ROOF DOUBLE TEE 10'-0" WIDE



STRAND PATTERN	SPAN (ft)															
	50	52	54	56	58	60	62	64	66	68	70	72	73	74	75	76
8-1PL+ TOP	55	50														
10-1PL + TOP		65	60	55	50											
12-1PT+ TOP					60	55	50									
14-1PT+ TOP							60	55	50							
16-2PT+ TOP								60	55	50						
18-2PT + TOP										65	60					
18-2PT + TOP*												55	50	45		
18-2PT+TOP**												65	60	55	50	45

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

1. Prestressed Concrete: $f_c=6000$ psi., $*f_c=7000$ psi, $**f_c=8000$ psi.
2. Service loads in the shaded boxes represent members with $f_c > 4500$ psi and cambers over 2.75".
3. 20 psf of the allowable superimposed service load is considered dead load.
4. Loads are based on ACI 318-19.



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With respect to the load tables provided on this website, the information and data presented are intended to assist designers in determining applicable prestressed members. They should not be construed as express or implied warranties of suitability. The data does not account for unusual loads or stresses. Designers are encouraged to consult S.P.I.'s Engineering Department for project-specific information.

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