

# 7" I-BEAM SPAN TABLES

CLIENT:

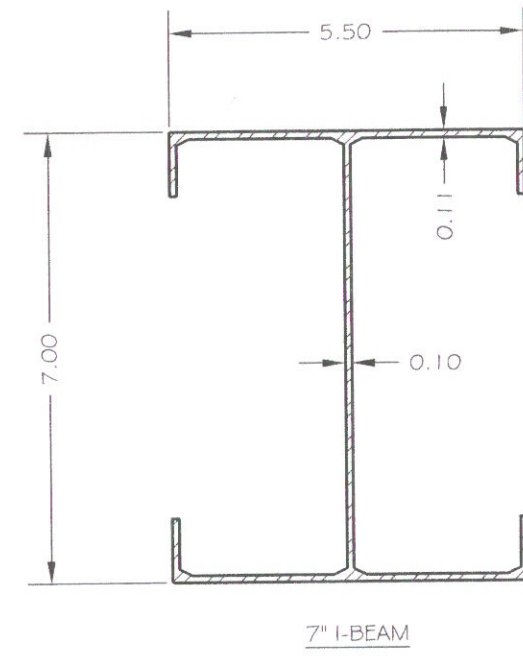


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**TABLE 1: ALLOWABLE BEAM SPANS FOR LIVE LOAD / SNOW LOAD / POSITIVE WIND LOAD**

LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN	LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN	LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN	LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN
10 PSF	20'-0"	8'-6"	20 PSF	17'-0"	8'-6"	30 PSF	16'-0"	8'-6"	40 PSF	14'-0"	8'-6"
	19'-0"	10'-6"		16'-0"	10'-6"		15'-0"	10'-6"		13'-0"	11'-0"
	18'-0"	12'-6"		15'-0"	13'-6"		14'-0"	12'-6"		12'-0"	14'-6"
	17'-0"	15'-6"		14'-0"	17'-0"		15'-6"	13'-0"		15'-6"	19'-6"
	16'-0"	19'-0"		13'-0"	21'-6"		12'-0"	19'-0"		11'-0"	19'-6"
	15'-0"	23'-6"		12'-0"	24'-0"		11'-0"	23'-6"		10'-0"	24'-0"
14'-0"	24'-0"										
50 PSF	13'-0"	8'-6"	60 PSF	13'-0"	7'-0"	70 PSF	12'-0"	8'-0"			
	12'-0"	11'-6"		12'-0"	9'-6"		11'-0"	11'-0"			
	11'-0"	15'-6"		11'-0"	13'-0"		10'-0"	15'-0"			
	10'-0"	21'-6"		10'-0"	18'-0"		9'-0"	21'-6"			
	9'-0"	24'-0"		9'-0"	24'-0"		8'-0"	24'-0"			



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PROJECT NAME:  
**STRUCTAL BUILDING SYSTEMS  
7" ALUMINUM I-BEAM  
SPAN TABLES**


- NOTES:
- 1 - ROOF PANEL SPAN DOES NOT INCLUDE MAX. 12" OVERHANG
  - 2 - ALLOWABLE BEAM SPANS BASED ON FULLY BRACED COMPRESSION FLANGE
  - 3 - DESIGN BASED ON 2005 ALUMINUM DESIGN MANUAL
  - 4 - BEAM ALLOY & TEMPER 6005-T6 WITH Ft<sub>u</sub> = 38 KSI AND Ft<sub>y</sub> = 35 KSI
  - 5 - BASED ON DEFLECTION LIMIT OF L/180 FOR DL+LL

**TABLE 2: ALLOWABLE BEAM SPANS FOR NEGATIVE (UPLIFT) WIND LOAD**

LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN	LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN	LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN	LOAD	MAX BEAM SPAN	MAX ROOF PANEL SPAN	
10 PSF	10'-6"	24'-0"	20 PSF	10'-6"	24'-0"	30 PSF	10'-6"	24'-0"	40 PSF	10'-6"	19'-0"	
										10'-0"	23'-0"	
										9'-0"	24'-0"	
50 PSF	10'-6"	14'-6"	60 PSF	10'-6"	7'-0"	70 PSF	10'-6"	11'-0"				
									10'-0"	9'-6"	10'-0"	13'-0"
									9'-0"	13'-0"	9'-0"	16'-6"
									8'-0"	18'-0"	8'-0"	21'-6"
											7'-0"	24'-0"

- NOTES:
- 1 - ROOF PANEL SPAN DOES NOT INCLUDE MAX. 12" OVERHANG
  - 2 - ALLOWABLE BEAM SPANS BASED ON COMPRESSION FLANGE BRACED AT MAXIMUM 10'-6" INTERVALS
  - 3 - DESIGN BASED ON 2005 ALUMINUM DESIGN MANUAL
  - 4 - BEAM ALLOY & TEMPER 6005-T6 WITH Ft<sub>u</sub> = 38 KSI AND Ft<sub>y</sub> = 35 KSI
  - 5 - BASED ON DEFLECTION LIMIT OF L/180 FOR DL+LL

SEAL:



7-14-10

DRAWING TITLE:  
**SPAN TABLES**

REVISIONS

NO.	DESCRIPTION

DRAWN BY: AS  
REVIEWED BY: AS  
SCALE: SEE PLAN  
DATE: 7-9-10

