

# CEILING SPAN TABLE

ALLOWABLE CEILING SPANS BASED ON A 4 PSF UNIFORM LOAD															
Web Depth	Flange Ht.	Part #	Thickness (mil)	Deflection Limit L/240						Deflection Limit L/360					
				Unbraced			Mid-Span Braced			Unbraced			Mid-Span Braced		
				12	16	24	12	16	24	12	16	24	12	16	24
1 5/8"	1 1/4"	162S125-	18	7' 2"	6' 7"	5' 10"	8' 2"	7' 5"	6' 6"	7' 2"	6' 6"	5' 8"	7' 2"	6' 6"	5' 8"
			27	8' 7"	7' 10"	7' 0"	9' 7"	8' 9"	7' 7"	8' 5"	7' 7"	6' 8"	8' 5"	7' 7"	6' 8"
			30	8' 11"	8' 2"	7' 3"	9' 11"	9' 0"	7' 10"	8' 8"	7' 10"	6' 10"	8' 8"	7' 10"	6' 10"
	1 3/8"	162S137-	27	9' 5"	8' 7"	7' 7"	10' 3"	9' 3"	8' 1"	8' 11"	8' 1"	7' 1"	8' 11"	8' 1"	7' 1"
			30	10' 3"	9' 5"	8' 3"	10' 5"	9' 5"	8' 3"	9' 1"	8' 3"	7' 2"	9' 1"	8' 3"	7' 2"
			33	10' 8"	9' 9"	8' 6"	10' 9"	9' 9"	8' 6"	9' 4"	8' 6"	7' 5"	9' 4"	8' 6"	7' 5"
	1 5/8"	162S162-	33	11' 3"	10' 3"	8' 11"	11' 3"	10' 3"	8' 11"	9' 10"	8' 11"	7' 10"	9' 10"	8' 11"	7' 10"
			18	8' 5"	7' 9"	6' 10"	11' 4"	10' 3"	9' 0"	8' 5"	7' 9"	6' 10"	9' 10"	9' 0"	7' 10"
			27	9' 8"	8' 11"	7' 11"	13' 3"	12' 1"	10' 6"	9' 8"	8' 11"	7' 11"	11' 7"	10' 6"	9' 2"
2 1/2"	1 1/4"	250S125-	30	10' 0"	9' 3"	8' 3"	13' 9"	12' 5"	10' 10"	10' 0"	9' 3"	8' 3"	12' 0"	10' 10"	9' 6"
			33	10' 5"	9' 7"	8' 7"	14' 2"	12' 10"	11' 3"	10' 5"	9' 7"	8' 7"	12' 4"	11' 3"	9' 10"
			43	11' 9"	10' 9"	9' 6"	15' 5"	14' 0"	12' 3"	11' 9"	10' 9"	9' 6"	13' 6"	12' 3"	10' 8"
	1 3/8"	250S137-	27	10' 11"	10' 1"	9' 1"	14' 0"	12' 8"	11' 1"	10' 11"	10' 1"	9' 1"	12' 2"	11' 1"	9' 8"
			30	11' 4"	10' 6"	9' 4"	14' 5"	13' 1"	11' 5"	11' 4"	10' 6"	9' 4"	12' 7"	11' 5"	10' 0"
			33	11' 9"	10' 10"	9' 8"	14' 11"	13' 6"	11' 10"	11' 9"	10' 10"	9' 8"	13' 0"	11' 10"	10' 4"
	1 5/8"	250S162-	43	13' 2"	12' 1"	10' 9"	16' 2"	14' 8"	12' 10"	13' 2"	12' 1"	10' 9"	14' 2"	12' 10"	11' 2"
			33	13' 5"	12' 5"	11' 1"	15' 8"	14' 2"	12' 5"	13' 5"	12' 5"	10' 10"	13' 8"	12' 5"	10' 10"
			43	14' 11"	13' 9"	12' 3"	17' 0"	15' 5"	13' 6"	14' 10"	13' 6"	11' 9"	14' 10"	13' 6"	11' 9"
3 1/2"	1 1/4"	350S125-	-18	9' 1"	8' 5"	7' 6"	12' 6"	11' 5"	10' 0"	9' 1"	8' 5"	7' 6"	12' 6"	11' 5"	10' 0"
			27	10' 6"	9' 8"	8' 8"	14' 10"	13' 8"	12' 3"	10' 6"	9' 8"	8' 8"	14' 10"	13' 8"	11' 11"
			30	10' 10"	10' 0"	9' 0"	15' 4"	14' 2"	12' 8"	10' 10"	10' 0"	9' 0"	15' 4"	14' 1"	12' 4"
	1 3/8"	350S137-	33	11' 3"	10' 5"	9' 3"	15' 11"	14' 8"	13' 1"	11' 3"	10' 5"	9' 3"	15' 11"	14' 7"	12' 9"
			43	12' 6"	11' 6"	10' 3"	17' 6"	16' 2"	14' 5"	12' 6"	11' 6"	10' 3"	17' 6"	15' 11"	13' 11"
			27	11' 10"	11' 0"	9' 10"	17' 0"	15' 8"	14' 1"	11' 10"	11' 0"	9' 10"	15' 10"	14' 4"	12' 6"
	1 5/8"	350S162-	30	12' 3"	11' 4"	10' 2"	17' 6"	16' 2"	14' 6"	12' 3"	11' 4"	10' 2"	16' 4"	14' 10"	12' 11"
			33	12' 9"	11' 9"	10' 6"	18' 1"	16' 9"	15' 0"	12' 9"	11' 9"	10' 6"	16' 10"	15' 4"	13' 4"
			43	14' 1"	12' 11"	11' 6"	19' 9"	18' 3"	16' 4"	14' 1"	12' 11"	11' 6"	18' 4"	16' 8"	14' 6"
3 5/8"	1 1/4"	362S125-	18	9' 2"	8' 6"	7' 7"	12' 7"	11' 7"	10' 1"	9' 2"	8' 6"	7' 7"	12' 7"	11' 7"	10' 1"
			27	10' 7"	9' 9"	8' 9"	14' 11"	13' 10"	12' 5"	10' 7"	9' 9"	8' 9"	14' 11"	13' 10"	12' 3"
			30	10' 11"	10' 1"	9' 1"	15' 5"	14' 3"	12' 9"	10' 11"	10' 1"	9' 1"	15' 5"	14' 3"	12' 8"
	1 3/8"	362S137-	33	11' 4"	10' 6"	9' 5"	16' 1"	14' 10"	13' 3"	11' 4"	10' 6"	9' 5"	16' 1"	14' 10"	13' 1"
			43	12' 8"	11' 7"	10' 4"	17' 8"	16' 4"	14' 7"	12' 8"	11' 7"	10' 4"	17' 8"	16' 4"	14' 3"
			27	12' 0"	11' 1"	9' 11"	17' 1"	15' 10"	14' 2"	12' 0"	11' 1"	9' 11"	16' 3"	14' 9"	12' 11"
	1 5/8"	362S162-	30	12' 5"	11' 5"	10' 3"	17' 8"	16' 4"	14' 8"	12' 5"	11' 5"	10' 3"	16' 9"	15' 3"	13' 3"
			33	12' 10"	11' 10"	10' 7"	18' 3"	16' 10"	15' 2"	12' 10"	11' 10"	10' 7"	17' 4"	15' 9"	13' 9"
			43	14' 2"	13' 1"	11' 8"	20' 0"	18' 5"	16' 6"	14' 2"	13' 1"	11' 8"	18' 10"	17' 1"	14' 11"
4"	1 1/4"	400S125-	18	9' 5" e	8' 9" e	7' 10" e	13' 0" e	11' 11" e	10' 6" e	9' 5" e	8' 9" e	7' 10" e	13' 0" e	11' 11" e	10' 6" e
			27	10' 10"	10' 0"	9' 0"	15' 4"	14' 2"	12' 9"	10' 10"	10' 0"	9' 0"	15' 4"	14' 2"	12' 9"
			30	11' 3"	10' 5"	9' 3"	15' 11"	14' 8"	13' 1"	11' 3"	10' 5"	9' 3"	15' 11"	14' 8"	13' 1"
	1 3/8"	400S137-	33	11' 8"	10' 9"	9' 7"	16' 6"	15' 3"	13' 7"	11' 8"	10' 9"	9' 7"	16' 6"	15' 3"	13' 7"
			43	12' 11"	11' 11"	10' 7"	18' 2"	16' 9"	14' 11"	12' 11"	11' 11"	10' 7"	18' 2"	16' 9"	14' 11"
			27	12' 3"	11' 4"	10' 2"	17' 6"	16' 3"	14' 7"	12' 3"	11' 4"	10' 2"	17' 6"	15' 11"	13' 11"
	1 5/8"	400S162-	30	12' 8"	11' 9"	10' 6"	18' 1"	16' 9"	15' 0"	12' 8"	11' 9"	10' 6"	18' 1"	16' 5"	14' 4"
			33	13' 2"	12' 2"	10' 11"	18' 8"	17' 4"	15' 6"	13' 2"	12' 2"	10' 11"	18' 8"	17' 0"	14' 10"
			43	14' 7"	13' 5"	11' 11"	20' 6"	18' 11"	16' 11"	14' 7"	13' 5"	11' 11"	20' 4"	18' 6"	16' 2"
5 1/2"	1 1/4"	550S125-	27	12' 0"	11' 2"	10' 1"	17' 5"	16' 0"	14' 4"	12' 0"	11' 2"	10' 1"	17' 5"	16' 0"	14' 4"
			30	12' 5"	11' 6"	10' 4"	17' 10"	16' 7"	14' 10"	12' 5"	11' 6"	10' 4"	17' 10"	16' 7"	14' 10"
			33	12' 10"	11' 10"	10' 8"	18' 5"	17' 1"	15' 4"	12' 10"	11' 10"	10' 8"	18' 5"	17' 1"	15' 4"
	1 3/8"	550S137-	43	14' 1"	13' 0"	11' 7"	19' 11"	18' 5"	16' 6"	14' 1"	13' 0"	11' 7"	19' 11"	18' 5"	16' 6"
			27	13' 7"	12' 7"	11' 4"	19' 8"	18' 3"	16' 6"	13' 7"	12' 7"	11' 4"	19' 8"	18' 3"	16' 6"
			30	14' 0"	13' 0"	11' 8"	20' 2"	18' 9"	16' 11"	14' 0"	13' 0"	11' 8"	20' 2"	18' 9"	16' 11"
	1 5/8"	550S162-	33	14' 5"	13' 5"	12' 0"	20' 9"	19' 3"	17' 5"	14' 5"	13' 5"	12' 0"	20' 9"	19' 3"	17' 5"
			43	15' 10"	14' 7"	13' 1"	22' 6"	20' 10"	18' 8"	15' 10"	14' 7"	13' 1"	22' 6"	20' 10"	18' 8"
			33	16' 5"	15' 3"	13' 8"	23' 8"	22' 0"	19' 10"	16' 5"	15' 3"	13' 8"	23' 8"	22' 0"	19' 10"
6"	1 1/4"	600S125-	27	12' 4" e	11' 5" e	10' 4" e	17' 10" e	16' 5" e	14' 8" e	12' 4" e	11' 5" e	10' 4" e	17' 10" e	16' 5" e	14' 8" e
			30	12' 9"	11' 9"	10' 7"	18' 4"	17' 0"	15' 2"	12' 9"	11' 9"	10' 7"	18' 4"	17' 0"	15' 2"
			33	13' 2"	12' 2"	10' 11"	18' 10"	17' 6"	15' 9"	13' 2"	12' 2"	10' 11"	18' 10"	17' 6"	15' 9"
	1 3/8"	600S137-	43	14' 5"	13' 3"	11' 10"	20' 5"	18' 11"	16' 11"	14' 5"	13' 3"	11' 10"	20' 5"	18' 11"	16' 11"
			27	13' 11" e	12' 11" e	11' 8" e	20' 1" e	18' 7" e	16' 8" e	13' 11" e	12' 11" e	11' 8" e	20' 1" e	18' 7" e	16' 8" e
			30	14' 4"	13' 4"	12' 0"	20' 9"	19' 2"	17' 2"	14' 4"	13' 4"	12' 0"	20' 9"	19' 2"	17' 2"
	1 5/8"	600S162-	33	14' 10"	13' 9"	12' 4"	21' 4"	19' 9"	17' 9"	14' 10"	13' 9"	12' 4"	21' 4"	19' 9"	17' 9"
			43	16' 2"	14' 11"	13' 4"	23' 0"	21' 4"	19' 2"	16' 2"	14' 11"	13' 4"	23' 0"	21' 4"	19' 2"
			33	16' 10"	15' 7"	14' 0"	24' 4"	22' 7"	20' 4"	16' 10"	15' 7"	14' 0"	24' 4"	22' 7"	20' 4"
43	18' 4"	16' 11"	15' 2"	26' 2"	24' 3"	21' 10"	18' 4"	16' 11"	15' 2"	26' 2"	24' 3"	21' 10"			

## CEILING SPAN TABLE NOTES

- For unbraced sections, allowable moment based on NASPEC section C3.1.2 with  $KyLy = KtLt$  = listed span.  
For mid-span braced sections, allowable moment based on NASPEC C3.1.2 with  $KyLy = KtLt$  = (listed span)/2
- For spans listed with "e", web stiffeners are required at end reactions.
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punch-outs. If web punch-outs occur near supports members must be checked for reduced shear and web crippling in accordance with the 2001 NASPEC.
- Values are for simple span conditions.

# CEILING SPAN TABLE

## ALLOWABLE CEILING SPANS BASED ON A 6 PSF UNIFORM LOAD

Web Depth	Flange Ht.	Part #	Thickness (mil)	Deflection Limit L/240						Deflection Limit L/360					
				Unbraced			Mid-Span Braced			Unbraced			Mid-Span Braced		
				12	16	24	12	16	24	12	16	24	12	16	24
1 5/8"	1 1/4"	162S125-	18	6' 4"	5' 10"	5' 1"	7' 2"	6' 6"	5' 8"	6' 3"	5' 8"	4' 11"	6' 3"	5' 8"	4' 11"
			27	7' 7"	7' 0"	6' 3"	8' 5"	7' 7"	6' 8"	7' 4"	6' 8"	5' 10"	7' 4"	6' 8"	5' 10"
			30	7' 11"	7' 3"	6' 6"	8' 8"	7' 10"	6' 10"	7' 7"	6' 10"	6' 0"	7' 7"	6' 10"	6' 0"
	1 3/8"	162S137-	27	8' 4"	7' 7"	6' 9"	8' 11"	8' 1"	7' 10"	7' 1"	7' 10"	7' 1"	6' 2"	7' 10"	7' 1"
			30	8' 10"	8' 0"	7' 0"	8' 10"	8' 0"	7' 0"	7' 8"	7' 0"	6' 1"	7' 8"	7' 0"	6' 1"
			33	9' 1"	8' 3"	7' 2"	9' 1"	8' 3"	7' 2"	7' 11"	7' 2"	6' 3"	7' 11"	7' 2"	6' 3"
	1 5/8"	162S162-	33	9' 4"	8' 6"	7' 5"	9' 4"	8' 6"	7' 5"	8' 2"	7' 5"	6' 6"	8' 2"	7' 5"	6' 6"
			33	9' 10"	8' 11"	7' 10"	9' 10"	8' 11"	7' 10"	8' 7"	7' 10"	6' 10"	8' 7"	7' 10"	6' 10"
			33	9' 10"	8' 11"	7' 10"	9' 10"	8' 11"	7' 10"	8' 7"	7' 10"	6' 10"	8' 7"	7' 10"	6' 10"
2 1/2"	1 1/4"	250S125-	18	7' 6"	6' 10"	6' 1"	9' 10"	9' 0"	7' 9"	7' 6"	6' 10"	6' 1"	8' 7"	7' 10"	6' 10"
			27	8' 7"	7' 11"	7' 1"	11' 7"	10' 6"	9' 2"	8' 7"	7' 11"	7' 1"	10' 2"	9' 2"	8' 0"
			30	8' 11"	8' 3"	7' 4"	12' 0"	10' 10"	9' 6"	8' 11"	8' 3"	7' 4"	10' 5"	9' 6"	8' 3"
			33	9' 3"	8' 7"	7' 7"	12' 4"	11' 3"	9' 10"	9' 3"	8' 7"	7' 7"	10' 10"	9' 10"	8' 7"
	1 3/8"	250S137-	27	10' 5"	9' 6"	8' 5"	13' 6"	12' 3"	10' 8"	10' 5"	9' 6"	8' 5"	11' 9"	10' 8"	9' 4"
			30	10' 5"	9' 6"	8' 5"	13' 6"	12' 3"	10' 8"	10' 5"	9' 6"	8' 5"	11' 9"	10' 8"	9' 4"
			33	10' 5"	9' 6"	8' 5"	13' 6"	12' 3"	10' 8"	10' 5"	9' 6"	8' 5"	11' 9"	10' 8"	9' 4"
			33	10' 5"	9' 6"	8' 5"	13' 6"	12' 3"	10' 8"	10' 5"	9' 6"	8' 5"	11' 9"	10' 8"	9' 4"
	1 5/8"	250S162-	27	9' 10"	9' 1"	8' 2"	12' 2"	11' 1"	9' 8"	9' 10"	9' 1"	8' 2"	10' 8"	9' 8"	8' 5"
			30	10' 2"	9' 4"	8' 5"	12' 7"	11' 5"	10' 0"	10' 2"	9' 4"	8' 5"	11' 0"	10' 0"	8' 9"
			33	10' 6"	9' 8"	8' 8"	13' 0"	11' 10"	10' 4"	10' 6"	9' 8"	8' 8"	11' 4"	10' 4"	9' 0"
			43	11' 8"	10' 9"	9' 7"	14' 2"	12' 10"	11' 2"	11' 8"	10' 9"	9' 7"	12' 4"	11' 2"	9' 9"
3 1/2"	1 1/4"	350S125-	-18	8' 2"	7' 6"	6' 7"	11' 0"	10' 0"	8' 6 e"	8' 2"	7' 6"	6' 7"	11' 0"	10' 0"	8' 6 e"
			27	9' 5"	8' 8"	7' 9"	13' 3"	12' 3"	10' 8"	9' 5"	8' 8"	7' 9"	13' 2"	11' 11"	10' 5"
			30	9' 8"	9' 0"	8' 0"	13' 8"	12' 8"	11' 3"	9' 8"	9' 0"	8' 0"	13' 7"	12' 4"	10' 9"
			33	10' 1"	9' 3"	8' 4"	14' 2"	13' 1"	11' 8"	10' 1"	9' 3"	8' 4"	14' 0"	12' 9"	11' 1"
	1 3/8"	350S137-	27	11' 1"	10' 3"	9' 1"	15' 7"	14' 5"	12' 10"	11' 1"	10' 3"	9' 1"	15' 3"	13' 11"	12' 2"
			30	11' 1"	10' 3"	9' 1"	15' 7"	14' 5"	12' 10"	11' 1"	10' 3"	9' 1"	15' 3"	13' 11"	12' 2"
			33	11' 1"	10' 3"	9' 1"	15' 7"	14' 5"	12' 10"	11' 1"	10' 3"	9' 1"	15' 3"	13' 11"	12' 2"
			43	12' 6"	11' 7"	10' 4"	17' 8"	16' 4"	14' 6"	12' 6"	11' 7"	10' 4"	16' 0"	14' 6"	12' 8"
	1 5/8"	350S162-	33	13' 0"	12' 0"	10' 9"	17' 8"	16' 1"	14' 0"	13' 0"	12' 0"	10' 9"	15' 5"	14' 0"	12' 3"
			43	14' 3"	13' 1"	11' 9"	19' 3"	17' 6"	15' 3"	14' 3"	13' 1"	11' 9"	16' 9"	15' 0"	13' 4"
			33	13' 0"	12' 0"	10' 9"	17' 8"	16' 1"	14' 0"	13' 0"	12' 0"	10' 9"	15' 5"	14' 0"	12' 3"
			43	14' 3"	13' 1"	11' 9"	19' 3"	17' 6"	15' 3"	14' 3"	13' 1"	11' 9"	16' 9"	15' 0"	13' 4"
3 5/8"	1 1/4"	362S125-	18	8' 3"	7' 7"	6' 8"	11' 2"	10' 1"	8' 8 e"	8' 3"	7' 7"	6' 8"	11' 2"	10' 1"	8' 8 e"
			27	9' 6"	8' 9"	7' 10"	13' 5"	12' 5"	10' 10"	9' 6"	8' 9"	7' 10"	13' 5"	12' 3"	10' 9"
			30	9' 9"	9' 1"	8' 1"	13' 10"	12' 9"	11' 5"	9' 9"	9' 1"	8' 1"	13' 10"	12' 8"	11' 1"
			33	10' 2"	9' 5"	8' 5"	14' 4"	13' 3"	11' 10"	10' 2"	9' 5"	8' 5"	14' 4"	13' 1"	11' 5"
	1 3/8"	362S137-	27	11' 3"	10' 4"	9' 2"	15' 9"	14' 7"	13' 0"	11' 3"	10' 4"	9' 2"	15' 9"	14' 3"	12' 6"
			30	11' 3"	10' 4"	9' 2"	15' 9"	14' 7"	13' 0"	11' 3"	10' 4"	9' 2"	15' 9"	14' 3"	12' 6"
			33	11' 3"	10' 4"	9' 2"	15' 9"	14' 7"	13' 0"	11' 3"	10' 4"	9' 2"	15' 9"	14' 3"	12' 6"
			43	12' 8"	11' 8"	10' 5"	17' 10"	16' 6"	14' 9"	12' 8"	11' 8"	10' 5"	16' 5"	14' 11"	13' 1"
	1 5/8"	362S162-	33	13' 1"	12' 1"	10' 10"	18' 2"	16' 6"	14' 5"	13' 1"	12' 1"	10' 10"	18' 10"	16' 5"	14' 5"
			43	14' 4"	13' 3"	11' 10"	19' 9"	17' 11"	15' 8"	14' 4"	13' 3"	11' 10"	17' 3"	15' 8"	13' 8"
			33	13' 1"	12' 1"	10' 10"	18' 2"	16' 6"	14' 5"	13' 1"	12' 1"	10' 10"	18' 10"	16' 5"	14' 5"
			43	14' 4"	13' 3"	11' 10"	19' 9"	17' 11"	15' 8"	14' 4"	13' 3"	11' 10"	17' 3"	15' 8"	13' 8"
4"	1 1/4"	400S125-	18	8' 6 e"	7' 10 e"	6' 11 e"	11' 6 e"	10' 6 e"	9' 0 e"	8' 6 e"	7' 10 e"	6' 11 e"	11' 6 e"	10' 6 e"	9' 0 e"
			27	9' 9"	9' 0"	8' 0"	13' 9"	12' 9"	11' 2"	9' 9"	9' 0"	8' 0"	13' 9"	12' 9"	11' 2"
			30	10' 1"	9' 3"	8' 4"	14' 2"	13' 1"	11' 9"	10' 1"	9' 3"	8' 4"	14' 2"	13' 1"	11' 9"
			43	11' 6"	10' 7"	9' 6"	16' 2"	14' 11"	13' 4"	11' 6"	10' 7"	9' 6"	16' 2"	14' 11"	13' 4"
	1 3/8"	400S137-	27	11' 0"	10' 2"	9' 2"	15' 9"	14' 7"	12' 11"	11' 0"	10' 2"	9' 2"	15' 4"	13' 11"	12' 2"
			30	11' 4"	10' 6"	9' 5"	16' 3"	15' 0"	13' 4"	11' 4"	10' 6"	9' 5"	15' 10"	14' 4"	12' 6"
			33	11' 9"	10' 11"	9' 9"	16' 9"	15' 6"	13' 10"	11' 9"	10' 11"	9' 9"	16' 4"	14' 10"	12' 11"
			43	13' 0"	11' 11"	10' 8"	18' 3"	16' 11"	15' 2"	13' 0"	11' 11"	10' 8"	17' 9"	16' 2"	14' 1"
	1 5/8"	400S162-	33	13' 5"	12' 5"	11' 1"	19' 2"	17' 9"	15' 6"	13' 5"	12' 5"	11' 1"	17' 1"	15' 6"	13' 7"
			43	14' 9"	13' 7"	12' 2"	20' 10"	19' 3"	16' 11"	14' 9"	13' 7"	12' 2"	18' 7"	16' 11"	14' 9"
			33	13' 5"	12' 5"	11' 1"	19' 2"	17' 9"	15' 6"	13' 5"	12' 5"	11' 1"	17' 1"	15' 6"	13' 7"
			43	14' 9"	13' 7"	12' 2"	20' 10"	19' 3"	16' 11"	14' 9"	13' 7"	12' 2"	18' 7"	16' 11"	14' 9"
5 1/2"	1 1/4"	550S125-	27	10' 10"	10' 0"	9' 1"	15' 6"	14' 4"	12' 10"	10' 10"	10' 0"	9' 1"	15' 6"	14' 4"	12' 10"
			30	11' 2"	10' 4"	9' 3"	16' 1"	14' 10"	13' 3"	11' 2"	10' 4"	9' 3"	16' 1"	14' 10"	13' 3"
			33	11' 6"	10' 8"	9' 7"	16' 6"	15' 4"	13' 9"	11' 6"	10' 8"	9' 7"	16' 6"	15' 4"	13' 9"
			43	12' 7"	11' 7"	10' 4"	17' 10"	16' 6"	14' 10"	12' 7"	11' 7"	10' 4"	17' 10"	16' 6"	14' 10"
	1 3/8"	550S137-	27	12' 3"	11' 4"	10' 3"	17' 9"	16' 6"	14' 11"	12' 3"	11' 4"	10' 3"	17' 9"	16' 6"	14' 11"
			30	12' 7"	11' 8"	10' 6"	18' 2"	16' 11"	15' 3"	12' 7"	11' 8"	10' 6"	18' 2"	16' 11"	15' 3"
			33	13' 0"	12' 0"	10' 10"	18' 8"	17' 4"	15' 8"	13' 0"	12' 0"	10' 10"	18' 8"	17' 4"	15' 8"
			43	14' 2"	13' 1"	11' 8"	20' 2"	18' 8"	16' 10"	14' 2"	13' 1"	11' 8"	20' 2"	18' 8"	16' 10"
	1 5/8"	550S162-	33	14' 9"	13' 8"	12' 4"	21' 4"	19' 10"	17' 11"	14' 9"	13' 8"	12' 4"	21' 4"	19' 10"	17' 5"
			43	16' 0"	14' 10"	13' 4"	23' 0"	21' 4"	19' 2"	16' 0"	14' 10"	13' 4"	23' 0"	21' 4"	18' 11"
			33	14' 9"	13' 8"	12' 4"	21' 4"	19' 10"	17' 11"	14' 9"	13' 8"	12' 4"	21' 4"	19' 10"	17' 5"
			43	16' 0"	14' 10"	13' 4"	23' 0"	21' 4"	19' 2"	16' 0"	14' 10"	13' 4"	23' 0"	21' 4"	18' 11"
6"	1 1/4"	600S125-	27	11' 1 e"	10' 4 e"	9' 3 e"	15' 11 e"	14' 8 e"	13' 2 e"	11' 1 e"	10' 4 e"	9' 3 e"	15' 11 e"	14' 8 e"	13' 2 e"
			30	11' 5"	10' 7"	9' 6"	16' 6"	15' 2"	13' 7"	11' 5"	10' 7"	9' 6"	16' 6"	15' 2"	13' 7"
			33	11' 9"	10' 11"	9' 10"	17' 0"	15' 9"	14' 1"	11' 9"	10' 11"	9' 10"	17' 0"	15' 9"	14' 1"
			43	12' 10"	11' 10"	10' 7"	18' 3"	16' 11"	15' 3"	12' 10"	10' 7"	11' 10"	10' 7"	18' 3"	16' 11"
	1 3/8"	600S137-	27	12' 7 e"	11' 8 e"	10' 6 e"	18' 0 e"	16' 8 e"	14' 11 e"	12' 7 e"	11' 8 e"	10' 6 e"	18' 0 e"	16' 8 e"	14' 11 e"
			30	12' 11"	12' 0"	10' 9"	18' 7"	17' 2"	15' 5"	12' 11"	12' 0"	10' 9"	18' 7"	17' 2"	15' 5"
			33	13' 4"	12' 4"	11' 1"	19' 2"	17' 9"	15' 11"	13' 4"	12' 4"	11' 1"	19' 2"	17' 9"	15' 11"
			43	14' 6"	13' 4"	12' 0"	20' 8"	19' 2"	17' 3"	14' 6"	13' 4"	12' 0"	20' 8"	19' 2"	17' 3"
	1 5/8"	600S162-	33	15' 2"	14' 0"	12' 8"	21' 11"	20' 4"	18' 4"	15' 2"	14' 0"	12' 8"	21' 11"	20' 4"	18' 4"
			43	16' 5"	15' 2"	13' 8"	23' 7"	21' 10"	19' 8"	16' 5"	15' 2"	13' 8"	23' 7"	21' 10"	19' 8"
			33	15' 2"	14' 0"	12' 8"	21' 11"	20' 4"	18' 4"	15' 2"	14' 0"	12' 8"	21' 11"	20' 4"	18' 4"
			43	16' 5"	15' 2"	13' 8"	23' 7"	21' 10"	19' 8"	16' 5"	15' 2"	13' 8"	23' 7"	21' 10"	19' 8"

### CEILING SPAN TABLE NOTES

- For unbraced sections, allowable moment based on NASPEC section C3.1.2 with  $K_y L_y = K_t L_t =$  listed span.  
For mid-span braced sections, allowable moment based on NASPEC C3.1.2 with  $K_y L_y = K_t L_t =$  (listed span)/2
- For spans listed with "e", web stiffeners are required at end reactions.
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punchouts. If web punchouts occur near supports members must be checked for reduced shear and web crippling in accordance with the 2001 NASPEC.
- Values are for simple span conditions.

# CEILING SPAN TABLE

## ALLOWABLE CEILING SPANS BASED ON A 13 PSF UNIFORM LOAD

Web Depth	Flange Ht.	Part #	Thickness (mils)	Deflection Limit L/240						Deflection Limit L/360								
				Unbraced			Mid-Span Braced			Unbraced			Mid-Span Braced					
				12	16	24	12	16	24	12	16	24	12	16	24			
1 5/8"	1 1/4"	162S125-	18	5' 0"	4' 6"	3' 10"	5' 6"	4' 11"	4' 0"	4' 10"	4' 4"	3' 10"	4' 10"	4' 4"	3' 10"			
			27	6' 1"	5' 6"	4' 9"	6' 6"	5' 11"	5' 2"	5' 8"	5' 2"	4' 6"	5' 8"	5' 2"	4' 6"			
			30	6' 4"	5' 10"	5' 0"	6' 8"	6' 1"	5' 3"	5' 10"	5' 3"	4' 7"	5' 10"	5' 3"	4' 7"			
	1 3/8"	162S137-	27	6' 7"	6' 1"	5' 4"	6' 11"	6' 3"	5' 6"	6' 0"	5' 6"	4' 9"	6' 0"	5' 6"	4' 9"			
			30	6' 9"	6' 2"	5' 5"	6' 9"	6' 2"	5' 5"	5' 11"	5' 5"	4' 8"	5' 11"	5' 5"	4' 8"			
			33	7' 0"	6' 4"	5' 7"	7' 0"	6' 4"	5' 7"	6' 1"	5' 7"	4' 10"	6' 1"	5' 7"	4' 10"			
	1 5/8"	162S162-	33	7' 3"	6' 7"	5' 9"	7' 3"	6' 7"	5' 9"	6' 4"	5' 9"	5' 0"	6' 4"	5' 9"	5' 0"			
			33	7' 7"	6' 11"	6' 0"	7' 7"	6' 11"	6' 0"	6' 8"	6' 0"	5' 3"	6' 8"	6' 0"	5' 3"			
			2 1/2"	1 1/4"	250S125-	18	6' 0"	5' 6"	4' 10" e	7' 7"	6' 8" e	5' 7" e	6' 0"	5' 6"	4' 10" e	6' 8"	6' 0" e	5' 3" e
27	6' 11"	6' 5"				5' 9"	9' 0"	8' 2"	6' 10"	6' 11"	6' 5"	5' 9"	7' 10"	7' 1"	6' 2"			
30	7' 2"	6' 8"				5' 11"	9' 3"	8' 5"	7' 3"	7' 2"	6' 8"	5' 11"	8' 1"	7' 4"	6' 5"			
33	7' 5"	6' 10"				6' 2"	9' 7"	8' 8"	7' 7"	7' 5"	6' 10"	6' 2"	8' 4"	7' 7"	6' 7"			
1 3/8"	250S137-	27		8' 3"	7' 7"	6' 9"	10' 5"	9' 5"	8' 3"	8' 3"	7' 7"	6' 9"	9' 1"	8' 3"	7' 2"			
		30		8' 0"	7' 5"	6' 7"	9' 5"	8' 7"	7' 6"	8' 0"	7' 5"	6' 6"	8' 3"	7' 6"	6' 6"			
		33		8' 3"	7' 7"	6' 10"	9' 9"	8' 10"	7' 8"	8' 3"	7' 7"	6' 9"	8' 6"	7' 8"	6' 9"			
		43		9' 4"	8' 7"	7' 8"	10' 11"	9' 11"	8' 8"	9' 4"	8' 7"	7' 7"	9' 6"	8' 8"	7' 7"			
1 5/8"	250S162-	33		9' 9"	9' 0"	8' 0"	10' 7"	9' 7"	8' 4"	9' 2"	8' 4"	7' 4"	9' 2"	8' 4"	7' 4"			
		43		10' 8"	9' 10"	8' 9"	11' 6"	10' 5"	9' 1"	10' 0"	9' 1"	7' 11"	10' 0"	9' 1"	7' 11"			
		3 1/2"		1 1/4"	350S125-	18	6' 5"	5' 11" e	5' 3" e	8' 3" e	7' 4" e	6' 1" e	6' 5"	5' 11" e	5' 3" e	8' 3" e	7' 4" e	6' 1" e
						27	7' 7"	7' 0"	6' 3"	10' 4"	9' 3"	7' 9"	7' 7"	7' 0"	6' 3"	10' 2"	9' 3"	7' 9"
30	7' 10"		7' 3"			6' 6"	10' 11"	9' 10"	8' 4"	7' 10"	7' 3"	6' 6"	10' 6"	9' 6"	8' 4"			
33	8' 2"		7' 6"			6' 8"	11' 5"	10' 5"	8' 11"	8' 2"	7' 6"	6' 8"	10' 10"	9' 10"	8' 7"			
1 3/8"	350S137-		27	8' 11"	8' 3"	7' 4"	12' 7"	11' 6"	10' 0"	8' 11"	8' 3"	7' 4"	11' 10"	10' 9"	9' 4"			
			30	8' 8"	8' 0"	7' 2"	11' 11"	10' 7"	8' 10" e	8' 8"	8' 0"	7' 2"	10' 8"	9' 8"	8' 5"			
			33	8' 11"	8' 3"	7' 5"	12' 5"	11' 2"	9' 5"	8' 11"	8' 3"	7' 5"	11' 0"	10' 0"	8' 9"			
			43	9' 3"	8' 6"	7' 8"	12' 11"	11' 9"	10' 0"	9' 3"	8' 6"	7' 8"	11' 4"	10' 4"	9' 0"			
1 5/8"	350S162-		33	10' 1"	9' 4"	8' 4"	14' 2"	12' 10"	11' 3"	10' 1"	9' 4"	8' 4"	12' 4"	11' 3"	9' 10"			
			43	10' 6"	9' 9"	8' 9"	13' 8"	12' 5"	10' 10"	10' 6"	9' 9"	8' 9"	11' 11"	10' 10"	9' 5"			
			43	11' 6"	10' 7"	9' 6"	14' 10"	13' 6"	11' 9"	11' 6"	10' 7"	9' 6"	13' 0"	11' 9"	10' 3"			
			3 5/8"	1 1/4"	362S125-	18	6' 6"	6' 0" e	5' 3" e	8' 4" e	7' 5" e	6' 2" e	6' 6"	6' 0" e	5' 3" e	8' 4" e	7' 5" e	6' 2" e
27	7' 8"	7' 1"				6' 4"	10' 6"	9' 5"	7' 11"	7' 8"	7' 1"	6' 4"	10' 5"	9' 5"	7' 11"			
30	7' 11"	7' 4"				6' 6"	11' 1"	10' 0"	8' 5"	7' 11"	7' 4"	6' 6"	10' 9"	9' 9"	8' 5"			
33	8' 2"	7' 7"				6' 9"	11' 6"	10' 6"	9' 0"	8' 2"	7' 7"	6' 9"	11' 2"	10' 1"	8' 10"			
1 3/8"	362S137-	27		9' 0"	8' 4"	7' 5"	12' 8"	11' 8"	10' 2"	9' 0"	8' 4"	7' 5"	12' 2"	11' 0"	9' 8"			
		30		8' 9"	8' 1"	7' 3"	12' 1"	10' 9"	9' 0" e	8' 9"	8' 1"	7' 3"	10' 11"	9' 11"	8' 8"			
		33		9' 0"	8' 4"	7' 6"	12' 7"	11' 4"	9' 7"	9' 0"	8' 4"	7' 6"	11' 4"	10' 3"	9' 0"			
		43		9' 4"	8' 7"	7' 9"	13' 1"	11' 10"	10' 2"	9' 4"	8' 7"	7' 9"	11' 8"	10' 7"	9' 3"			
1 5/8"	362S162-	33		10' 2"	9' 5"	8' 5"	14' 5"	13' 2"	11' 5"	10' 2"	9' 5"	8' 5"	12' 8"	11' 6"	10' 1"			
		43		10' 7"	9' 10"	8' 10"	14' 0"	12' 9"	11' 1"	10' 7"	9' 10"	8' 10"	12' 3"	11' 1"	9' 8"			
		43		11' 7"	10' 9"	9' 7"	15' 3"	13' 10"	12' 1"	11' 7"	10' 9"	9' 7"	13' 4"	12' 1"	10' 7"			
		4"		1 1/4"	400S125-	18	6' 9" e	6' 2" e	5' 5" e	8' 9" e	7' 9" e	6' 6" e	6' 9" e	6' 2" e	5' 5" e	8' 9" e	7' 9" e	6' 6" e
27	7' 10"		7' 3"			6' 6"	10' 11"	9' 10"	8' 3"	7' 10"	7' 3"	6' 6"	10' 11"	9' 10"	8' 3"			
30	8' 2"		7' 6"			6' 8"	11' 6"	10' 4"	8' 10"	8' 2"	7' 6"	6' 8"	11' 6"	10' 4"	8' 10"			
33	8' 5"		7' 9"			6' 11"	11' 11"	10' 11"	9' 5"	8' 5"	7' 9"	6' 11"	11' 11"	10' 11"	9' 5"			
1 3/8"	400S137-		27	8' 11"	8' 3"	7' 5"	12' 7"	11' 3"	9' 5" e	8' 11"	8' 3"	7' 5"	11' 10"	10' 9"	9' 5" e			
			30	9' 3"	8' 6"	7' 8"	13' 1"	11' 10"	10' 1"	9' 3"	8' 6"	7' 8"	12' 2"	11' 1"	9' 8"			
			33	9' 6"	8' 10"	7' 11"	13' 6"	12' 4"	10' 7"	9' 6"	8' 10"	7' 11"	12' 7"	11' 5"	10' 0"			
			43	10' 5"	9' 8"	8' 7"	14' 10"	13' 7"	11' 10"	10' 5"	9' 8"	8' 7"	13' 9"	12' 6"	10' 11"			
1 5/8"	400S162-		33	10' 11"	10' 1"	9' 1"	15' 2"	13' 9"	11' 8"	10' 11"	10' 1"	9' 1"	13' 3"	12' 0"	10' 6"			
			43	11' 11"	11' 0"	9' 10"	16' 6"	14' 11"	13' 1"	11' 11"	11' 0"	9' 10"	14' 5"	13' 1"	11' 5"			
			5 1/2"	1 1/4"	550S125-	27	8' 10"	8' 3"	7' 4"	12' 7"	11' 7"	10' 1" e	8' 10"	8' 3"	7' 4"	12' 7"	11' 7"	10' 1" e
						30	9' 1"	8' 5"	7' 7"	13' 0"	12' 0"	10' 7" e	9' 1"	8' 5"	7' 7"	13' 0"	12' 0"	10' 7" e
33	9' 4"	8' 8"				7' 10"	13' 5"	12' 5"	11' 1"	9' 4"	8' 8"	7' 10"	13' 5"	12' 5"	11' 1"			
43	10' 2"	9' 5"				8' 5"	14' 6"	13' 6"	12' 1"	10' 2"	9' 5"	8' 5"	14' 6"	13' 6"	12' 1"			
1 3/8"	550S137-	27		10' 0"	9' 4"	8' 5" e	14' 7"	13' 6" e	11' 10" e	10' 0"	9' 4"	8' 5" e	14' 7"	13' 6" e	11' 10" e			
		30		10' 3"	9' 7"	8' 7"	14' 11"	13' 10"	12' 3" e	10' 3"	9' 7"	8' 7"	14' 11"	13' 10"	12' 3" e			
		33		10' 7"	9' 10"	8' 10"	15' 4"	14' 3"	12' 8" e	10' 7"	9' 10"	8' 10"	15' 4"	14' 3"	12' 8" e			
		43		11' 5"	10' 7"	9' 6"	16' 5"	15' 3"	13' 8"	11' 5"	10' 7"	9' 6"	16' 5"	15' 3"	13' 8"			
1 5/8"	550S162-	33		12' 1"	11' 2"	10' 1"	17' 6"	16' 2"	14' 2" e	12' 1"	11' 2"	10' 1"	16' 11"	15' 5"	13' 5" e			
		43		13' 0"	12' 1"	10' 10"	18' 9"	17' 5"	15' 5"	13' 0"	12' 1"	10' 10"	18' 5"	16' 9"	14' 8"			
		6"		1 1/4"	600S125-	27	9' 1" e	8' 5" e	7' 6" e	12' 10" e	11' 11" e	10' 5" e	9' 1" e	8' 5" e	7' 6" e	12' 10" e	11' 11" e	10' 5" e
						30	9' 4"	8' 8"	7' 9"	13' 3"	12' 3"	10' 11" e	9' 4"	8' 8"	7' 9"	13' 3"	12' 3"	10' 11" e
33	9' 7"		8' 11"			8' 0"	13' 9"	12' 9"	11' 4"	9' 7"	8' 11"	8' 0"	13' 9"	12' 9"	11' 4"			
43	10' 5"		9' 7"			8' 7"	14' 11"	13' 10"	12' 5"	10' 5"	9' 7"	8' 7"	14' 11"	13' 10"	12' 5"			
1 3/8"	600S137-		27	10' 3" e	9' 6" e	8' 6" e	14' 8" e	13' 6" e	11' 10" e	10' 3" e	9' 6" e	8' 6" e	14' 8" e	13' 6" e	11' 10" e			
			30	10' 7"	9' 10"	8' 9"	15' 1"	14' 0"	12' 4" e	10' 7"	9' 10"	8' 9"	15' 1"	14' 0"	12' 4" e			
			33	10' 10"	10' 1"	9' 1"	15' 7"	14' 5"	12' 10" e	10' 10"	10' 1"	9' 1"	15' 7"	14' 5"	12' 10" e			
			43	11' 9"	10' 10"	9' 9"	16' 10"	15' 8"	14' 1"	11' 9"	10' 10"	9' 9"	16' 10"	15' 8"	14' 1"			
1 5/8"	600S162-		33	12' 5"	11' 6"	10' 4"	18' 0"	16' 8"	14' 9" e	12' 5"	11' 6"	10' 4"	18' 0"	16' 8"	14' 5" e			
			43	13' 4"	12' 4"	11' 1"	19' 3"	17' 10"	16' 0"	13' 4"	12' 4"	11' 1"	19' 3"	17' 10"	16' 0"			

"e" Web stiffeners required at supports