

BeamChek v2004 licensed to: Jeffrey Smith Reg # 4151-65031

MUTO MCAULIFFE

**BEAM 1**

Date: 3/25/13

Selection

W 12x 26 36 ksi Wide Flange Steel

Lateral Support at: Lc = 6.9 ft max.

Conditions

Actual Size is 6-1/2 x 12-1/4 in.,

Min Bearing Length R1= 1.2 in. R2= 1.2 in. DL Defl 0.09 in Suggested Camber 0.13 in

Data

Beam Span	13.0 ft	Reaction 1 LL	10400 #	Reaction 2 LL	10400 #
Beam Wt per ft	26.0 #	Reaction 1 TL	15769 #	Reaction 2 TL	15769 #
Bm Wt Included	338 #	Maximum V	15769 #		
Max Moment	51249 #	Max V (Reduced)	N/A		
TL Max Defl	L / 240	TL Actual Defl	L / 593		
LL Max Defl	L / 360	LL Actual Defl	L / 899		

Attributes

	Section (in <sup>2</sup> )	Shear (in <sup>2</sup> )	TL Defl (in)	LL Defl
Actual	33.40	2.81	0.26	0.17
Critical	25.88	1.10	0.65	0.43
Status	OK	OK	OK	OK
Ratio	77%	39%	40%	40%

Values

	Fb (psi)	Fv (psi)	E (psi x mil)
Base Value Fy	36000	36000	29.0
Base Adjusted	23760	14400	29.0

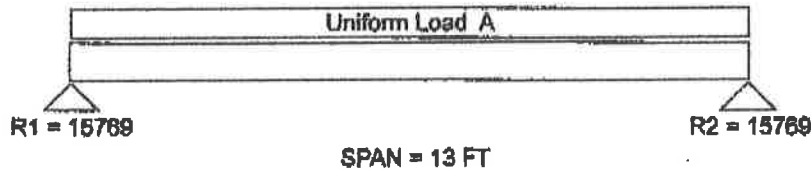
Adjustments

YP Factor, Lc	0.68	0.40	
---------------	------	------	--

Loads

Uniform LL: 1600

Uniform TL: 2400 = A



Uniform and partial uniform loads are lbs per lineal ft.