

STEEL BEAM AND COLUMN ANALYSIS / CODE CHECK

Stress Code Check Per AISC 9th Edition Manual (ASD)

For W, S, M, and HP Shapes

Job Name:		Subject:	
Job Number:		Originator:	Checker:

Input Data:

Member Size:

Select: **W12x30**

Member Loadings:

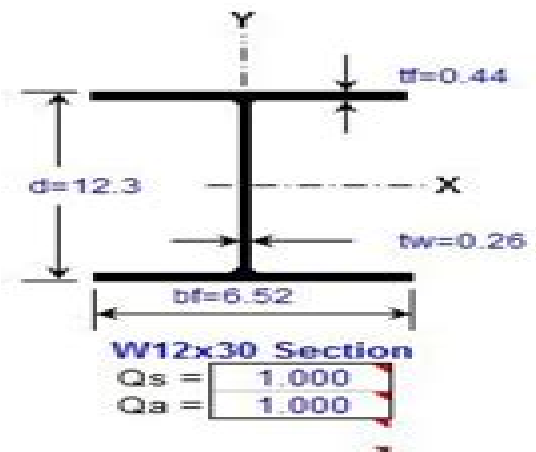
P = **10.00** kips
Mx = **25.00** ft-kips
My = **5.00** ft-kips

Design Parameters:

Fy = **36.00** ksi
Kx = **1.00**
Ky = **1.00**
Lx = **14.000** ft
Ly = **14.000** ft
Lb = **14.000** ft
Cb = **1.00**
Cmx = **0.85**
Cmy = **0.85**
ASIF = **1.000**

Member Properties:

A = **8.79** in.²
d = **12.300** in.
tw = **0.260** in.
bf = **6.520** in.
tf = **0.440** in.
rt = **1.730** in.
d/Af = **4.30**
Ix = **238.00** in.⁴
Sx = **38.60** in.³
rx = **5.210** in.
Iy = **20.30** in.⁴
Sy = **6.24** in.³
ry = **1.520** in.
J = **0.46** in.⁴
Cw = **719.0** in.⁶



Results:

For Axial Compression:

Kx*Lx/rx = **32.25**
Ky*Ly/ry = **110.53**
Cc = **126.10**
fa = **1.14** ksi
Fa = **11.60** ksi
Pa = **101.97** kips

For X-axis Bending:

Lc = **6.88** ft
Lu = **10.77** ft
Lb/rt = **97.11**
fbx = **7.77** ksi
Fbx = **16.61** ksi
Mrx = **53.43** ft-kips

For Y-axis Bending:

fby = **9.62** ksi
Fby = **27.00** ksi
Mry = **14.04** ft-kips

X-axis Euler Stress:

F_{ex} = **143.62** ksi

Y-axis Euler Stress:

F_{ey} = **12.22** ksi

Stress Ratio:

S.R. = **0.922** Eqn. H1-3

Comments:

Aisc Steel Manual Cheat Sheet

David Micnhimer



Aisc Steel Manual Cheat Sheet:

PPI PE Structural Bridges Practice Problems with Solutions - Practice Problems with Full Solutions for the NCEES PE Structural Engineering (SE) Exam David Micnhimer, 2021-08-18 David Micnhimer's PE Structural Bridges Practice Problems with Solutions STBR is a new book designed to help practice for Bridge questions on the PE Structural SE Exam. This book is a comprehensive review of different types of bridge questions you can encounter on the breadth portion of the exam. Features of this book: 77 multiple choice questions to test your knowledge of bridge design. Up to date with codes and references for the October 2021 PE Structural SE Exam. Complete solutions show you step by step how to solve problems.

Commentary on the 1968 Ed. of the Specification for the Design of Cold-formed Steel Structural Members American Iron and Steel Institute, 1970 *Handbook AISC Steel Teaching Pack*, 1991 Manual of Steel Construction American Institute of Steel Construction (New York, NY), 1970 Commentary on North American Specification for the Design of Cold-formed Steel Structural Members American Iron and Steel Institute, 2002 **Tables of Properties for Designing W, M, S, and HP Shapes, and Allowable Stress Design Selection** American Institute of Steel Construction, 1974 **Specifications and Codes** American Institute of Steel Construction, Nearly all of AISC's current specifications and codes are available for download as a PDF *Allowable Stress Design in Steel* American Institute of Steel Construction INC., 1990 **Solutions Manual to Accompany Structural Steel Design** Joseph E. Bowles, 1980 *Specification for the Design of Cold-formed Stainless Steel Structural Members: Commentary on the 1968 edition of the Specification for the design of cold-formed steel structural members*, 1970

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