

CRANE BEAM DESIGN

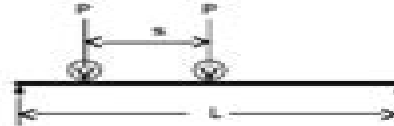
An Educational Tool to aid in Crane Runway Beam Design in accordance with AISC 9th Edition ASD and AISC 3rd Edition LRFD.
(Ref. AISC Steel Design Guide Series - Design Guide 7 "Industrial Buildings")

Project Name: AISC Design Guide 7
Project Description: Example 98.1.2 LRFD
Company: AISC
Designed By: CSD Date: 3/26/2006

SINGLE CRANE WITH TWO WHEELS PER END TRUCK

Crane Data

Crane Capacity		<u>20.0</u>	Tons
Bridge Weight	Wt. b	<u>57.2</u>	kips
Trolley + Hoist Weight	Wt. t+h	<u>10.6</u>	kips
Max. Wheel Load	P	<u>38.1</u>	kips
Wheel Spacing	s	<u>12.00</u>	ft.
Vertical Impact		<u>25</u>	% (Input 25% for cab-operated cranes, 10% for pendant operated cranes)



Crane Runway

Runway Span Length L 30.00 ft. Crane Rail Weight = 60.0 lb/ft

Runway Deflection Criteria

Vertical Deflection * L / 600 0.60 in. $l_{x \text{ req'd.}} = 3371.3$ in.
Horizontal Deflection L / 400 0.90 in. $l_{y \text{ req'd.}} = 149.2$ in.

* Does NOT include Vertical Impact or Girder and Rail Weight.

Crane Runway Design

AISC Design Procedure LRFD (ASD or LRFD)

Forces

Max. Vertical Load	P v	<u>69.05</u>	kips / wheel (includes impact)
Max. Horizontal Load	P h **	<u>4.05</u>	kips / wheel / side
** Total Horizontal Force is 20% of the sum of weights of the lifted load and crane trolley, exclusive of other parts of crane.			
Bending Moment	M _x	<u>680.27</u>	kip-ft. (includes impact and girder and rail weight)
Bending Moment	M _y	<u>38.86</u>	kip-ft.
Shear	V _x	<u>113.20</u>	kips

Crane Runway Beam (Note: VALID for ASTM A6 rolled shapes ONLY)

Crane Beam Type *** W
*** W indicates W Shape and WC indicates W Shape + Cap Channel

Crane Beam Designation W24x131
Beam Weight Wt. 131.0 lb/ft
Yield Stress F_y 36.0 ksi

Deflection Checks

Vertical - Moment of Inertia X-X $I_x = 4000.0$ in.⁴ o.k.
Horizontal - Top Flange Moment of Inertia Y-Y $I_{y \text{ top}} = 171.7$ in.⁴ o.k.

Summary Stress Checks

Check Bending about the X-X Axis	CSR =	<u>0.875</u>	o.k.
Check Bending about the Y-Y Axis in the top flange	CSR =	<u>0.360</u>	o.k.
Check Biaxial Bending in the top flange	CSR =	<u>1.236</u>	n.g.
Check Shear about the X-X Axis	CSR =	<u>0.399</u>	o.k.
Check Web Sidesway Buckling	CSR =	<u>0.222</u>	o.k.

GENERAL NOTES

This program is applicable to only rolled W shapes and W shapes with Channel Caps.

In addition to the general crane beam design above, the following design checks **MUST** be made:

- Design for cyclic loading (Fatigue).
- Design of welds attaching cap channel to w shape beam.
- Design of crane beam end connections and bearing stiffeners.
- Design of crane rail attachment to crane beam.

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**American Institute of Steel
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,2009 **Structural Engineering Handbook, Fifth Edition** Mustafa Mahamid, Edwin H. Gaylord, Charles N. Gaylord, 2020-04-17 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The industry standard guide to structural engineering fully updated for the latest advances and regulations For 50 years this internationally renowned handbook has been the go to reference for structural engineering specifications codes technologies and procedures Featuring contributions from a variety of experts the book has been revised to align with the codes that govern structural design and materials including IBC ASCE 7 ASCE 37 ACI AISC AASHTO NDS and TMS Concise practical and user friendly this one of a kind resource contains real world examples and detailed descriptions of today's design methods Structural Engineering Handbook Fifth Edition covers Computer applications in structural engineering Earthquake engineering Fatigue brittle fracture and lamellar tearing Soil mechanics and foundations Design of steel structural and composite members Plastic design of steel frames Design of cold formed steel structural members Design of aluminum structural members Design of reinforced and prestressed concrete structural members Masonry construction and timber structures Arches and rigid frames Bridges and girder boxes Building design and considerations Industrial and tall buildings Thin shell concrete structures Special structures and nonbuilding structures *Structural Steel Designer's Handbook, Sixth Edition* Roger L. Brockenbrough, 2019-10-25 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or

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Tubular Structures XVI Amin Heidarpour, Xiao-Ling Zhao, 2017-11-13 Tubular Structures XVI contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 16th International Symposium on Tubular Structures ISTS16 Melbourne Australia 4 6 December 2017 The International Symposium on Tubular Structures ISTS has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for presentation and discussion of research developments and applications in this field Various key and emerging subjects in the field of hollow structural sections are covered such as

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Metal Building Systems 3E (PB) Alexander Newman, 2014-09-22 The most complete up to date metal building systems guide Fully revised for the latest building codes and industry trends Metal Building Systems Third Edition explains how to select specify and design preengineered buildings with confidence In this book a practicing structural engineer goes beyond manufacturer supplied specifications to provide impartial and objective information that can save you money and time A new chapter on anchor bolts and embedments many new illustrations plus new and updated design examples are included in this practical reference End of chapter review questions reinforce the material presented This is an essential resource for architects engineers construction specifiers design professionals facility managers building officials and contractors working with metal building systems **COMPREHENSIVE COVERAGE INCLUDES** Structural loads and design methods Structural system selection criteria Primary framing Secondary framing girts and purlins Metal roofing Wall materials Insulation The process of buying a metal building Common problems and failures Lateral drift and vertical deflections Foundation design Anchor bolts and embedments Current design trends Reroofing and renovations Specifying crane buildings Avoiding construction problems

Load & Resistance Factor Design: Connections American Institute of Steel Construction, 1994

Engineering Journal , 2007

Structural Engineering SE All-in-One Exam Guide: Breadth and Depth Dave K. Adams, 2017-03-08 Complete coverage of every objective for the Structural Engineering SE exam Take the 16 hour Structural Engineering SE exam with confidence using this effective self study resource Written by a former member of the NCEES exam development and grading committees Structural Engineering SE All in One Exam Guide Breadth and Depth offers clear explanations real world examples and test preparation strategies A complete practice exam is included containing both multiple choice and essay questions buildings and bridges that are accurate to the format tone and content of the live exam Coverage includes Vertical and lateral components Building and bridge codes Computer modeling and verification Construction administration Structural analysis Reinforced and prestressed concrete design Masonry design Foundation and retaining wall design Structural and cold formed steel design Timber design Seismic analysis and design Wind analysis and design Bridge design

California Code of Regulations , 2013 This document is Part 2 of 12 parts of the official triennial compilation and publication of the adoptions amendments and repeal of administrative regulations to

California Code of Regulations Title 24 also referred to as the California Building Standards Code This part is known as the California Building Code Preface **Detailing for Steel Construction** ,2002 *Load & Resistance Factor Design*
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