

Some buildings require bay spacing more than 10m in order to have a greater clear space at the interior of the building in Multi-Span buildings. Such a situation can be handled by providing *jack beams* (see clause 4.2.) that support the intermediate frames without interior columns. Thus the exterior columns will have bay spacing of say 6m while the interior columns are spaced at 12m. Intermediate frames allow the purlin to span for 6m as shown in the Figure next page.



Estimation of economical bay spacing:

Example No. 1

Building Length = 70m
 No. of Interior bays = $(70-12)/8 = 7.25$ Use 7 @ 8m
 Size of End bays = $(70-8x7)/2 = 7m$
 Bay Spacing: 1 @ 7 + 7 @ 8 + 1 @ 7

Example No. 2

Building Length = 130m --- Needs an expansion joint
 No. of Interior bays = $(130-24)/8 = 13.25$ Use 14 @ 7.5m
 Size of End bays = $(130-14x7.5)/4 = 6.25m$
 Bay Spacing: 1 @ 6.25 + 7 @ 7.5 + 1 @ 6.25 + Exp. Jt + 1 @ 6.25 + 7 @ 7.5 + 1 @ 6.25

Zamil Steel Design Manual

**American Institute of Steel
Construction**

Zamil Steel Design Manual:

Design, Fabrication and Economy of Metal Structures Károly Jármai,József Farkas,2013-03-15 These are the proceedings of the International Conference on Design Fabrication and Economy of Metal Structures held on 24 26 April 2013 in Miskolc Hungary which contain 99 papers covering Structural optimization Thin walled structures Stability Fatigue Frames Fire Fabrication Welding technology Applications Steel concrete composite Special problems The authors are from 23 different countries ensuring that the themes covered are of worldwide interest and importance The International Institute of Welding IIW the International Society of Structural and Multidisciplinary Optimization ISSMO the T MOP 4 2 1 B 10 2 KONV 2010 0001 project entitled Increasing the quality of higher education through the development of research development and innovation program at the University of Miskolc supported by the European Union co financed by the European Social Fund and many other sponsors helped organizers to collect these valuable studies the results of which will provoke discussion and provide an important reference for civil and mechanical engineers architects researchers and structural designers and fabricators as well as managers in a range of industries including building transport shipbuilding aircraft chemical and offshore engineering

ACI Manual of Concrete Practice ,1998 *Moody's OTC Unlisted Manual*,1987 **International Journal of Computers & Applications** ,2002 *Steel Design for Engineers and Architects* D.

Fanella,R. Amon,B. Knobloch,A. Mazumder,2012-02-25 In 1989 the American Institute of Steel Construction published the ninth edition of the Manual of Steel Construction which contains the Specification for Structural Steel Buildings Allowable Stress Design ASD and Plastic Design This current specification is completely revised in format and partly in content compared to the last one which was published in 1978 In addition to the new specification the ninth edition of the Manual contains completely new and revised design aids The second edition of this book is geared to the efficient use of the aforementioned manual To that effect all of the formulas tables and explanatory material are specifically referenced to the appropriate parts of the AISCM Tables and figures from the Manual as well as some material from the Standard Specifications for Highway Bridges published by the American Association of State Highway and Transportation Officials AASHTO and from the Design of Welded Structures published by the James F Lincoln Arc Welding Foundation have been reproduced here with the permission of these organizations for the convenience of the reader The revisions which led to the second edition of this book were performed by the first two authors who are both experienced educators and practitioners

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Unified Design of Steel Structures with Study

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Middle East Economic Digest ,2004-10 Load & Resistance Factor Design ,1998 **Manual of Steel Construction** American Institute of Steel Construction,2005 *Sweet's Catalog File* ,1985 **Steel Design for Engineers and Architects** D. Fanella,R. Amon,B. Knobloch,A. Mazumder,2012-12-06 In 1989 the American Institute of Steel Construction published the ninth edition of the Manual of Steel Construction which contains the Specification for Structural Steel Buildings Allowable Stress Design ASD and Plastic Design This current specification is completely revised in format and partly in content compared to the last one which was published in 1978 In addition to the new specification the ninth edition of the Manual contains completely new and revised design aids The second edition of this book is geared to the efficient use of the afore mentioned manual To that effect all of the formulas tables and explanatory material are specifically referenced to the appropriate parts of the AISCM Tables and figures from the Manual as well as some material from the Standard Specifications for Highway Bridges published by the American Association of State Highway and Transportation Officials AASHTO and from the Design of Welded Structures published by the James F Lincoln Arc Welding Foundation have been reproduced here with the permission of these organizations for the convenience of the reader The revisions which led to the second edition of this book were performed by the first two authors who are both experienced educators and practitioners

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