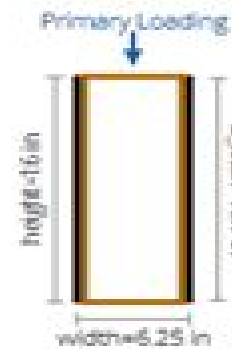


## Summary

■ Steel Plate ■ Wood



► Moment Utilization

$$M/M' = 28\,200 \text{ lb}\cdot\text{ft} / 81\,900 \text{ lb}\cdot\text{ft}$$

34%

► Shear Utilization

$$V/V' = 4\,510 \text{ lb} / 15\,500 \text{ lb}$$

29%

► Bearing Utilization

$$R/R' = 4\,510 \text{ lb} / 12\,200 \text{ lb}$$

37%

► Minimum Bearing Length (End Supports)

$$\ell_{b,min,end} = 1.11 \text{ in}$$

► Governing Live / Short-Term Deflection

$$\delta_{ST} = -0.168 \text{ in (L/1790)}$$

20%

► Governing Long-Term Deflection

$$\delta_{LT} = -0.235 \text{ in (L/1270)}$$

24%

Reactions:



# Manual Flitch Beam Calculation

**August W. Domel, Jr.**



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A Manual of Machine Design Frank Castle, 1919      A Manual of Civil Engineering Practice F. Noel Taylor, 1911      **A Manual of Carpentry and Joinery** J. W. Riley, 1905      Structural Defects Reference Manual for Low-Rise Buildings Michael F. Atkinson, 2014-04-21 The Structural Defects Reference Manual for Low Rise Buildings has been written to assist professionals and students involved in building construction to identify causes of structural failure Each chapter carefully addresses design materials and workmanship factors which contribute to structural defects The main structural elements roofs wall      *Flitch Plate and Steel I-beams*, 1981      **Audel Complete Building Construction** Mark Richard Miller, Rex Miller, Eugene Leger, 2005-01-28 You can build on this foundation Whether construction is your livelihood or you re just planning a home addition you need to know the latest about materials methods and more From locating the structure on the site to installing roof shingles this book helps you make responsible decisions about every stage of building construction Fully updated with information about available resources new materials and recent code changes it helps you build cost effective energy efficient structures with confidence Understand how different types of lots covenants and zoning will affect structure placement Consider the Air Freezing Index and Degree Days when planning foundations Look at the pros and cons of welded wire fabric in concrete work Explore low E window glass heat mirror and switchable glazings Find out what insulation and ventilation procedures are most effective Learn about the properties of Gypsonite TM and FiberBond TM in interior construction Handle the radon hazard and other environmental issues      **Manual, Inspection Department, Bureau of Aircraft Production ...** United States. Bureau of Aircraft Production, 1918      **Applied Structural Steel Design** Leonard Spiegel, George F. Limbrunner, 1986 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine      Home Improvements Manual Reader's Digest Editors, 1982      *Reader's Digest Home Improvements Manual*, 1992-03 This is one of the Reader s Digest practical do it yourself guides It was conceived to complement our Complete Do it yourself Manual Millions of people have used that book to accomplish at minimum cost many home improvement jobs and repairs that would otherwise have required the services of professionals This book is our answer It is a total book of the house      **Transactions of the ASAE.** American Society of Agricultural Engineers, 1972      **Modern Carpentry** Frederick Thomas Hodgson, 1914      English Mechanic and Mirror of Science, 1883      **English Mechanic and World of Science**, 1883      **Felder's Comprehensive, 2005 Edition** Nick Felder, 2005-07-14 Every industry has its standard professional directory advertising has its Black Book manufacturing its Thomas s Register except that is for architecture and design and construction While there are dozens of smaller directories each addressing a specific market niche none speak to all three industries in a comprehensive way And larger product directories like Sweets are advertising driven and therefore incomplete Felder s Comprehensive is the first pan industry guide of its kind and it is many times more comprehensive than the nearest competitor It is an annual desk reference

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Timber Engineering Ernest Norman Carmichael,1984 This book provides an introduction to timber engineering aimed at the student engineer or at the practitioner who needs an introduction or a refresher course on design in a material with which he is unfamiliar      **Van Nostrand's Eclectic Engineering Magazine** ,1870

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