

**DESIGN OF MONORAIL**

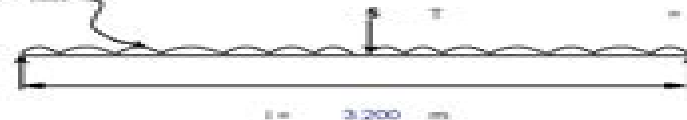
(3.0 T CAPACITY)

LOAD ON MONORAIL =  $\frac{3.0}{0.8}$  T  
weight of pulley + bucket ( 25% of capacity)

IMPACT FACTOR = 25 % = 1 (Ref. IS 800)

Therefore, TOTAL LOAD =  $\frac{3.0}{0.8}$  T  
Horizontal load = 10 % of Monorail capacity = 0.32 T (Ref. IS 807)

Slw of beam  
0.046 T/m



Shear 5.07 T  
( Assuming load at support )

$$M_x = \frac{5}{4.06} \times \frac{3.2}{1.5} = \frac{0.046}{8} \times \frac{3.20^2}{2} = 4.06 \text{ Tm}$$

$$M_{ux} = 4.06 \times \frac{1.5}{1.5} = 6.09 \text{ Tm} \quad (LF = 1.5)$$

$$M_y = (H \cdot l) = \frac{0.32}{4} \times \frac{3.20}{1.5} = 0.26 \text{ Tm}$$

$$M_{uy} = 0.26 \times \frac{1.5}{1.5} = 0.39 \text{ Tm} \quad (LF = 1.5)$$

Maximum shear  
( Assuming load at one end )

$$V_{max} = 5 + \frac{0.046}{2} \times 3.20 = 5.07 \text{ T}$$

Try section	ISMB 300	$f_y = \frac{250}{0.046}$ Mpa
Weight	49	Kg/m
$I_{xx}$	8990	cm <sup>4</sup>
$Z_{xx}$	599	cm <sup>3</sup>
$Z_{yy}$	69.5	cm <sup>3</sup>
$r^2$	13.1	mm
$r_{yy}$	28.6	mm
$t_f$	300	mm
$b_f$	140	mm
$t_w$	7.7	mm

Assumed reduced bending comp. stress  $f_{bd}$  for laterally unsupported condition = 100 N/mm<sup>2</sup>

$Z_p$  required as per CL.8.2.2 ( Pg 54 ) of IS 800 -2007

$$M_d = \phi_b \times Z_p \times f_{bd}$$

$\phi_b = 1$  for plastic / compact section

$$Z_p \text{ reqd} = \frac{6.09 \times 10^7}{1 \times 100} = 609000 \text{ mm}^3$$

Considering full torsional restraint at both ends of beams while flanges not restrained against warping, for normal loading effective length = 1.0 L

$$\frac{K_L}{r_{yy}} = \frac{3200}{28.6} = 111.89$$

$$\frac{t_f}{d} = \frac{300}{13.1} = 22.9$$

# Monorail Design Guide As Per Eurocode

**H. Gulvanessian, Jean-Armand  
Calgaro, Milan Holický**



## **Monorail Design Guide As Per Eurocode:**

**Proceedings of the Institution of Civil Engineers**, 2001      Designers' Guide to EN 1993-1-1 Leroy Gardner, D. A. Nethercot, 2005 After some 25 years in preparation the key parts of EN 1993 1 1 Eurocode 3 Design of steel structures General rules and rules for buildings have now been finalised Eurocode 3 covers many forms of steel construction and provides the most comprehensive and up to date set of design guidance currently available Throughout this book concentrates on the most commonly encountered aspects of structural steel design with an emphasis on the situation in buildings Much of its content is therefore devoted to the provisions of the Part 1 1 General rules and rules for buildings of EN 1993 This is however supplemented by material on loading joints and cold formed design For each of the principal aspects covered the book provides background to the structural behaviour explanation of the codified treatment including departure from existing practice BS 5950 and numerous worked examples This Guide should serve as the primary point of reference for designing steel structures to Eurocode 3 **BOOK JACKET**      *Designers' Guide to EN 1992-1-1 Eurocode 2: Design of Concrete Structures* Andrew W Beeby, R S Narayanan, 2005-09-30 Applies to the design of building and civil engineering structures in plain reinforced and pre stressed concrete The code for convenience referred to as EC2 is written in several parts EN 1992 1 1 EN 1992 1 2 EN 1992 2 and EN 1992 3      *Designer's Guide to EN 1990* H. Gulvanessian, Jean-Armand Calgaro, Milan Holický, 2002 General Requirements Principles of limit state design Basic variables Structural analysis and design assisted by testing Verification by the partial factor method Annex A1 normative Application for buildings Management of structural reliability for construction works Basis for partial factor design and reliability analysis Design assisted by testing Appendix A The Construction Products Directive 89 106 EEC Appendix B The Eurocode Suite Appendix C Basic statistical terms and techniques Appendix D National standard organizations      **Designers' Guide to EN 1994-1-1** Roger Paul Johnson, D. Anderson, 2004 EN 1994 1 1 also known as Eurocode 4 is a standard of the Eurocode suite This guide provides the user with guidance on the interpretation and use of EN 1994 1 1 through worked examples in relation to rules for buildings structural fire design and for bridges It is useful for civil and structural engineers code drafting committees and more      **Designers' Guide to Eurocode 4** Roger Paul Johnson, 2012 EN 1994 or Eurocode 4 specifies the principles and rules for safety serviceability and durability of composite steel and concrete structures      **Designers' Guide to Eurocode 4** Roger Paul Johnson, 2012 EN 1994 or Eurocode 4 specifies the principles and rules for safety serviceability and durability of composite steel and concrete structures      Designers' Guide to EN 1992-2. Eurocode 2 : Design of Concrete Structures. Part 2: Concrete Bridges Chris R Hendy, David A. Smith, 2007-01-08 Annotation Basis of design Materials Durability Structural analysis Ultimate limit states Serviceability limit states Detailing of reinforcement and prestressing tendons Detailing for members and particular rules Additional rules for precast concrete structures Design for the execution stages      Designers' Guide to EN 1994-2 Eurocode 4 C. R. Hendy, Roger Paul Johnson, 2006 EN 1994 2 is one standard of the Eurocode suite

describes the principles requirements for safety serviceability durability of composite steel concrete bridges This guide provides the user with guidance on the interpretation use of EN 1994 2 through worked examples in relation to the general rules the rules for bridges      **Designers' Guide to Eurocode 4** Roger P. Johnson,2011-12 EN 1994 or Eurocode 4 specifies the principles and rules for safety serviceability and durability of composite steel and concrete structures      Designers' Guide to EN 1993-2. Eurocode 3: Design of steel structures. Part 2: Steel bridges Chris R Hendy,C. J. Murphy,Haig Gulvanessian,2007-09-03 EN 1993 2 describes the principles and requirements for safety serviceability and durability of concrete bridges This guide provides the user with guidance on the interpretation and use of EN 1993 2 and also the relevant provisions in EN 1993 1 1 EN 1993 1 5 EN 1993 1 8 EN 1993 1 9 EN 1993 1 10 and EN 1993 1 11      Designers' Guide to Eurocode H. Gulvanessian,Jean-Armand Calgaro,Milan Holický,2012      Designers' Guide to EN 1994-1-1: 2026 Roger P. Johnson,Stephen J. Hicks,2025-11-30 This third edition of Designers Guide to Eurocode 4 Design of composite steel and concrete structures EN 1994 1 1 provides comprehensive guidance in the form of design aids indications for the most convenient design procedures and worked examples to Eurocode 4      Designers' Guide to EN 1992-1-1 and EN 1992-1-2 A. W. Beeby,R. S. Narayanan,2005 Eurocode 2 will apply to the design of building and civil engineering structures in plain reinforced and pre stressed concrete      **Designers' Guide to Eurocode 3: Design of Steel Buildings** Leroy Gardner,David Nethercot,Haig Gulvanessian,2011-09-08 Eurocode 3 covers many forms of steel construction and provides the most comprehensive and up to date set of design guidance currently available      **Designers' guide to EN 1992-2** C. R. Hendy,D. A. Smith,2007      *Worked Examples for the Design of Concrete Structures to Eurocode 2* Tony Threlfall,2013-06-20 This practical design guide illustrates through worked examples how Eurocode 2 may be used in practice Complete and detailed designs of six archetypal building and public utility structures are provided The book caters to students and engineers with little or no practical experience of design as well as to more experienced engineers who may be unfamiliar with Eurocode 2 Chapter 1 provides an introduction to the Structural Eurocodes with particular reference to actions on structures Chapter 2 describes the principles requirements and methods used for the design of members This is followed by worked examples for the following structures A multi storey office building with three forms of floor construction A basement to the office building with three types of foundations A free standing cantilever earth retaining wall A large underground service reservoir An open top rectangular tank on an elastic soil An open top cylindrical tank on an elastic soil In addition to the design of all the elements the analysis of each structure is fully explained This applies particularly to the design of the basement and the tanks bearing on elastic soils for which specially derived tables are included in appendices to the book The calculations are complemented by reinforcement drawings in accordance with the recommendations in the third edition 2006 of the Standard method of detailing structural concrete with commentaries on the bar arrangements This book can be used as a stand alone publication or as a more detailed companion to Reynolds s Reinforced Concrete Designer s

Handbook now in its 11th edition The comprehensive treatment of the designs and the variety of structures considered make this a unique and invaluable work     **Design Guidance : Eurocode 5** ,1998     **Designers' Guide to Eurocode 1** H. Gulvanessian, Paolo Formichi, Jean-Armand Calgaro, Eurocodes Expert (Organization), 2009 The design process of a bridge includes several steps One of the major steps is the determination of actions combinations of actions These actions are imposed loads due to traffic climatic actions actions due to water or soil subsidence construction loads accidental actions  
    *Designers' Guide to Eurocode 3* Leroy Gardner, 2011

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## **Table of Contents Monorail Design Guide As Per Eurocode**

1. Understanding the eBook Monorail Design Guide As Per Eurocode
  - The Rise of Digital Reading Monorail Design Guide As Per Eurocode
  - Advantages of eBooks Over Traditional Books
2. Identifying Monorail Design Guide As Per Eurocode
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Monorail Design Guide As Per Eurocode
  - User-Friendly Interface
4. Exploring eBook Recommendations from Monorail Design Guide As Per Eurocode
  - Personalized Recommendations
  - Monorail Design Guide As Per Eurocode User Reviews and Ratings
  - Monorail Design Guide As Per Eurocode and Bestseller Lists

5. Accessing Monorail Design Guide As Per Eurocode Free and Paid eBooks
  - Monorail Design Guide As Per Eurocode Public Domain eBooks
  - Monorail Design Guide As Per Eurocode eBook Subscription Services
  - Monorail Design Guide As Per Eurocode Budget-Friendly Options
6. Navigating Monorail Design Guide As Per Eurocode eBook Formats
  - ePub, PDF, MOBI, and More
  - Monorail Design Guide As Per Eurocode Compatibility with Devices
  - Monorail Design Guide As Per Eurocode Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Monorail Design Guide As Per Eurocode
  - Highlighting and Note-Taking Monorail Design Guide As Per Eurocode
  - Interactive Elements Monorail Design Guide As Per Eurocode
8. Staying Engaged with Monorail Design Guide As Per Eurocode
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Monorail Design Guide As Per Eurocode
9. Balancing eBooks and Physical Books Monorail Design Guide As Per Eurocode
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Monorail Design Guide As Per Eurocode
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Monorail Design Guide As Per Eurocode
  - Setting Reading Goals Monorail Design Guide As Per Eurocode
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Monorail Design Guide As Per Eurocode
  - Fact-Checking eBook Content of Monorail Design Guide As Per Eurocode
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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