

**DESIGN OF MONORAIL**

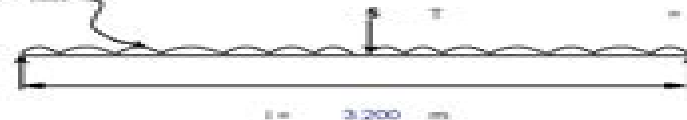
(3.0 T CAPACITY)

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

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

Therefore, TOTAL LOAD =  $\frac{5}{0.32}$  T (Ref. IS 807)  
Horizontal load = 10 % of Monorail capacity

Slw of beam  
0.046 T/m



Shear 5.07 T  
( Assuming load at support )

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

$$M_{ux} = \frac{4.06}{5.09} \times 1.5 = 6.09 \text{ Tm} \quad (LF = 1.2)$$

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

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

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 =  $\frac{100}{100}$  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 =  $\frac{1.0}{1.0} L$

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

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

# Monorail Design Guide As Per Eurocode

**Andrew W Beeby, R S Narayanan**



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

Proceedings of the Institution of Civil Engineers, 2001      **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      **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 Eurocode** H. Gulvanessian, Jean-Armand Calgaro, Milan Holický, 2012      **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 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 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

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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

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## Unveiling the Magic of Words: A Review of "**Monorail Design Guide As Per Eurocode**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Monorail Design Guide As Per Eurocode**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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