

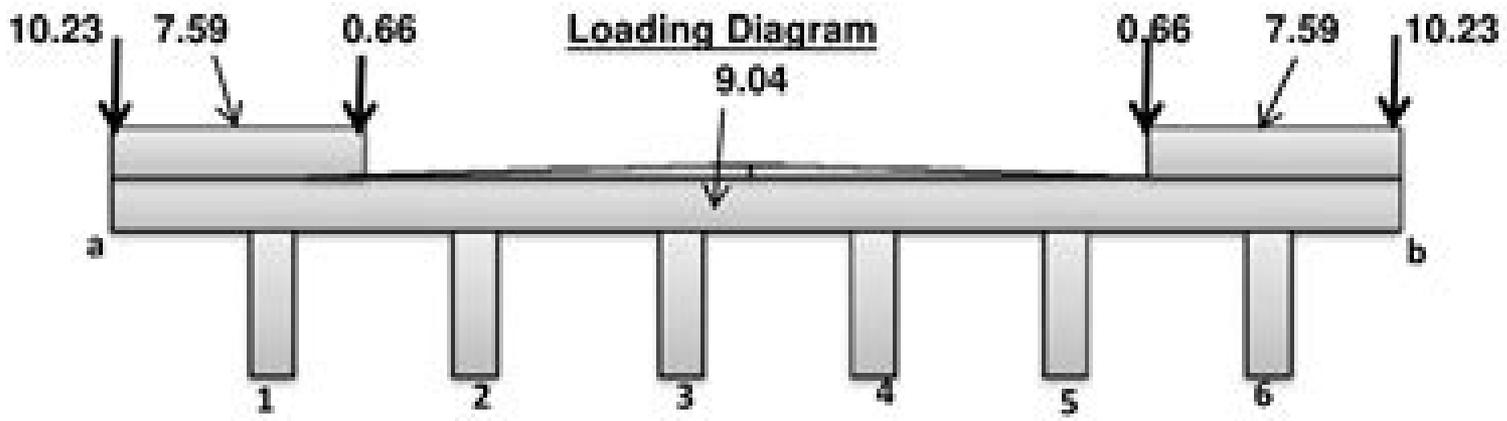
**DEAD LOADING**

Assumption: The analysis of dead load is carried out on the assumption that the slabs and kerb of uniform cross-section

BS 5400-4  
Cl. 4.2.2  
Cl. 4.2.3

ITEM	Unit wt (KN/m <sup>2</sup> )	Nominal Load	ULS			SLS		
			FL	F3	Load	FL	F3	Load
Slab	24	5.40	1.15	1.1	6.83	1.0	1.0	5.40
Surfacing	23	1.15	1.75	1.1	2.21	1.2	1.0	1.38
Kerb	24	6.00	1.15	1.1	7.59	1.0	1.0	6.00
Guardrails	0.5 kN/m	0.50	1.2	1.1	0.66	1.0	1.0	0.50
Crash Barrier		8.09	1.15	1.1	10.23	1.0	1.0	8.09

BS 5400-2  
Table 1  
Cl. 4.4, 5.5



**LIVE LOADING**

RDM Pt. 4

Standard highway loading consists of HA and HB loading  
HA is normal loading  
HB is abnormal loading

# Bridge Design Calculations

**Mike Jess**



## **Bridge Design Calculations:**

This book delves into Bridge Design Calculations. Bridge Design Calculations is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Bridge Design Calculations, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Bridge Design Calculations
  - Chapter 2: Essential Elements of Bridge Design Calculations
  - Chapter 3: Bridge Design Calculations in Everyday Life
  - Chapter 4: Bridge Design Calculations in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Bridge Design Calculations. This chapter will explore what Bridge Design Calculations is, why Bridge Design Calculations is vital, and how to effectively learn about Bridge Design Calculations.
3. In chapter 2, the author will delve into the foundational concepts of Bridge Design Calculations. The second chapter will elucidate the essential principles that need to be understood to grasp Bridge Design Calculations in its entirety.
4. In chapter 3, the author will examine the practical applications of Bridge Design Calculations in daily life. This chapter will showcase real-world examples of how Bridge Design Calculations can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Bridge Design Calculations in specific contexts. This chapter will explore how Bridge Design Calculations is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Bridge Design Calculations. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Bridge Design Calculations.

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