



# Guidelines for the Design of Shield Tunnel Lining

Working Group No. 2, International Tunnelling Association

**Abstract**—These guidelines, prepared by Working Group 2 (Research) of the International Tunnelling Association, are presented in three parts: Part I describes the outline of the procedure of design. Part II presents the detailed design methods. Part III provides references, including examples of design. Because the methods of designing shield tunnel linings vary, the guidelines do not recommend that priority be given to any one method. Rather, this report presents the basic concepts of shield tunnel linings, in order to provide reference and guidance in designing tunnel linings. © 2000 Published by Elsevier Science Ltd. All rights reserved.

## Preface

Although these guidelines present the basic concepts of shield tunnel lining, they do not supersede relevant specifications relevant to each country and each project. The aim of the guidelines is to promote advances in the design of shield tunnels in accordance with the objectives of the International Tunnelling Association prescribed in Section II of the Statutes of the ITA (ITA 1976).

Work on the guidelines began at the meeting of ITA Working Group 2 – Research in Amsterdam in 1993. After much study, discussion and investigation, the guidelines were completed in December 1999.

The guidelines consist of three parts:

Part I outlines the shield tunnel design procedure.

Part II presents the detailed design methods.

Part III provides references, including examples of shield tunnel design.

Because there are various competent methods of designing shield tunnel linings, these guidelines give no priority to any specific method. Rather, they introduce design methods generally and widely used throughout the world.

Shield tunnels are usually excavated in soft ground rather than in rock. The parameters of linings, such as dimension and strength of material, are subject not only to ground conditions but also to construction conditions.

The practice of designing tunnel linings requires much experience, practical and theoretical knowledge. It is therefore not expected that these guidelines will cover every point of tunnel lining design, but instead will provide basic knowledge useful to design practitioners. It is hoped that this knowledge

will be continuously improved through progress in tunnelling technology.

As Vice-Animateur of ITA Working Group 2, I wish to acknowledge the important contributions of the following persons: M. Yano Leblais, who led the study as Animateur; Professor Andre Assis and Professor E. Eisenstein, who guided our study as Tutors; working group members Herr Dr. Harald Wagner, Professor Teodor Iltis, Dr. Birger Schmidt, Signor Piergiorgio Grassi, all of whom contributed greatly to the study; and members of Research and Development Committee of the Japan Tunnelling Association, chaired by Professor Toru Kondo, who prepared the draft of the guidelines.

For the International Tunnelling Association,

—YOSHINOBU HIRO TAKANO

Vice-Animateur, ITA Working Group 2,

“Research”

## Part I: Outline of Shield Tunnel Lining Design Procedure

Following the planning works for the tunnel, the lining of a shield tunnel is designed according to the following sequence, as a rule:

1. Adherence to specification, code or standard. The tunnel to be constructed should be designed according to the appropriate specification standard, code or standards, which are determined by the persons in charge of the project or decided by discussion between these persons and the designers.
2. Decision on inner dimension of tunnel. The inner diameter of the tunnel to be designed should be decided in consideration of the space that is demanded by the functions of the tunnel. This space is determined by:
  - The construction gauge and car gauge, in the case of railway tunnels;

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# Guidelines For Tunnel Lining Design

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