

Grundlagen der Projektierung von Tragwerken

Bases pour l'élaboration des projets de structures porteuses

Basi per la progettazione di strutture portanti

## Basis of Structural Design

# 260



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## FOREWORD

The present code SIA 260 is directed towards design engineers. Also addressed are owners and those involved in site supervision and the execution of construction works.

SIA 260 is part of the Swiss structural codes. It follows in general the European Standard EN 1990 *Basis of Structural Design*, while at the same time integrating the principles laid down in the code SIA 160 (1989).

The Swiss structural codes comprise the following:

- SIA 260 Basis of structural design
- SIA 261 Actions on structures
- SIA 262 Concrete structures
- SIA 263 Steel structures
- SIA 264 Composite steel and concrete structures
- SIA 265 Timber structures
- SIA 266 Masonry
- SIA 267 Geotechnical design.

It is planned to add to the Swiss structural codes a code *Conservation of structures*.

With SIA 260 the technical terms “basis of design“, “service criteria agreement“ and “structural concept“ have been introduced for the first time. The “basis of design“ contains the technical elements of the documents “service plan“ and “safety plan“ introduced in SIA 160 (1989).

Also new are the terms “record of construction“ and “report of remedial measures“. “Report on remedial measures“ replaces the term “final technical report“ introduced in the recommendation SIA 162/5.

Several terms defined in accordance with EN 1990 have not been used or used differently in Switzerland, e.g. “action effects“, “dimensioning situations“, “load case“, “reliability“, “robustness“ and “structural analysis“.

Various other terms have been used previously in Switzerland but are defined for the first time within the framework of the Swiss structural codes, e.g. “capacity design“, “conceptual design“, “configuration“, “deformation capacity“, “ductility“, “integration“ and “observational method“.

Project Management Swisscodes

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Abbreviations of organisations represented in Commission SIA 160

|       |   |
|-------|---|
| ASTRA | Swiss Federal Roads Authority                   |
| BAV   | Federal Office of Transport                     |
| EPFL  | Swiss Federal Institute of Technology, Lausanne |
| ETHZ  | Swiss Federal Institute of Technology, Zurich   |

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## Project Management Swisscodes (at the same time Drafting Panel for the code SIA 260)

Prof. Dr. Peter Marti, dipl. Ing. ETH, Zurich  
Dr. Ulrich Vollenweider, dipl. Ing. ETH, Zurich  
Dr. Paul Lüchinger, dipl. Ing. ETH, Zurich  
Prof. Dr. Viktor Sigrist, dipl. Ing. ETH, Hamburg

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## Commission SIA 160 "Actions on Structures"

|                 |  |                     |
|-----------------|--|---------------------|
| <b>Chairman</b> | Prof. Thomas Vogel, dipl. Ing. ETH, Zurich       | ETHZ                |
| <b>Members</b>  | Michel Donzel, dipl. Ing. ETH, Berne             | ASTRA               |
|                 | Toni Eder, dipl. Ing. ETH, Berne                 | BAV                 |
|                 | Prof. Dr. Michael H. Faber, dipl. Ing., Zurich   | ETHZ                |
|                 | André Flückiger, dipl. Ing. ETH, Aigle           | Contractor          |
|                 | Prof. Dr. Tullio Frangi, dipl. Ing. ETH, Muttenz | FH                  |
|                 | Prof. Dr. Manfred Hirt, dipl. Ing. ETH, Lausanne | EPFL                |
|                 | Andreas Keller, dipl. Ing. ETH, Berne            | Consulting Engineer |
|                 | Dr. Jean-Paul Lebet, dipl. Ing. ETH, Lausanne    | EPFL                |
|                 | Dr. Paul Lüchinger, dipl. Ing. ETH, Zurich       | Consulting Engineer |
|                 | Andreas Steiger, dipl. Ing. ETH, Luzern          | Consulting Engineer |
|                 | Ulrich G. Stiefel, dipl. Ing. ETH, Basle         | Consulting Engineer |
|                 | Dr. Rudolf Vogt, dipl. Ing. ETH, Zurich          | Consulting Engineer |
|                 | Dr. Thomas Wenk, dipl. Ing. ETH, Zurich          | Consulting Engineer |
|                 | Prof. Dr. Bruno Zimmerli, dipl. Ing. ETH, Horw   | FH                  |
|                 | Klaus Zimmermann, dipl. Ing. ETH, Berne          | Consultant          |
| <b>Minutes</b>  | Reto Bargähr, dipl. Ing. ETH, Zurich             | ETHZ                |

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## Acceptance and coming into force

The central committee for codes and regulations accepted the present code SIA 260 on 1 October 2002.

It comes into force on 1 January 2003.

It replaces Sections 0 to 3 of the code SIA 160 *Actions on Structures* of 1 June 1989.

## Interim regulations

Up to 30 June 2004 the code SIA 160, Edition 1989, can still be used, but only together with the structural codes which refer to it.

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