

Fire safety and fire resistant design of steel structures for buildings
according to Eurocode 3

Steel Design 2

Fire

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Colophon

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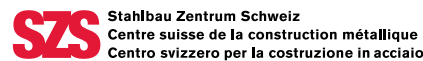
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The text is based on the (English) EN version of the Eurocodes using default and/or recommended values. Where a country can make a national choice – or when non-contradictory complementary information may be used – this is indicated by the following symbol: **NA**. Separate annexes contain the national choices for Belgium, Luxembourg, The Netherlands and Switzerland. These annexes – as well as any errata, corrections and additions to this textbook – can be downloaded free of charge from the websites of the (national) organisations.

Fire is the second textbook in the Steel Design series. Previously published is *Structural basics* (Steel Design 1).

Illustrations

All unnamed photographs and all drawings come from the archive of Bouwen met Staal.

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Structural basics

Steel Design 1



Structural basics

This textbook covers the design and analysis of steel structures for buildings according to EN 1990 (Eurocode 0), EN 1991 (Eurocode 1) and EN 1993 (Eurocode 3). It is effective as a textbook for students and as a reference guide to the Eurocodes 0, 1 and 3 for practising structural engineers.

The text is based on the (English) EN version of the Eurocodes using default and/or recommended values. Where a country can make a national choice – or when non-contradictory complementary information may be used – this is indicated by a symbol (black square). Separate annexes contain (for now) the national choices for Belgium, Luxembourg, The Netherlands and Switzerland. These annexes can be downloaded free of charge from the websites of the (national) organisations as well as any errata, corrections and additions to this textbook.

H.H. Snijder and H.M.G.M. Steenbergen, *Structural basics. Analysis and design of steel structures for buildings according to Eurocode 0, 1 and 3 (Steel Design 1)*, published by Bouwen met Staal, Zoetermeer 2019, ISBN 979-90-72830-98-2, format 23x25 cm, 272 p.

Also available as e-book at Wiley / Ernst & Sohn with ISBN 978-34-33610-69-5.

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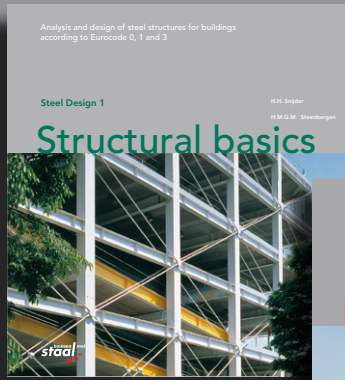
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Steel Design series



Steel Design 1



Steel Design 2



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Education and high quality textbooks are crucial to developing an interest in steel structures and their benefits for clients, architects and designers. However, despite the need to inspire the industry's next generation, many textbooks on steel structures are commissioned on a low budget, resulting in material that lacks imagination and tends to feature, at best, moderate illustrations. These textbooks are usually intended for high school and university level students, as well as designers who are not yet specialised in steel and steel construction. Therefore, it is vital that lecturers have access to up-to-date books that offer clear and concise explanations, while inspiring readers about the possibilities of steel through beautiful graphics and images.

Steel Design is a set of English textbooks translated from the original Dutch that are based on the EN version of Eurocode with differences in nationally defined parameters included in an annex. These textbooks are intended for high-school and university level students. The content is applicable to designers who are not specialised in steel and steel construction.

World Steel Association

worldsteel has supported the development of study material related to steel in construction since 2018. This allows future architects and designers to take advantage of steel products and their features that support designs that meet the circular economy principles.

A separate opt-in programme has been developed called 'constructsteel.org' and is able to be joined by steel producers and construction industry related organisations upon application. This programme focusses on the construction market sector exclusively to promote steel and steel products.

Please see www.worldsteel.org and www.constructsteel.org for further details about the steel industry and specifically the construction market.