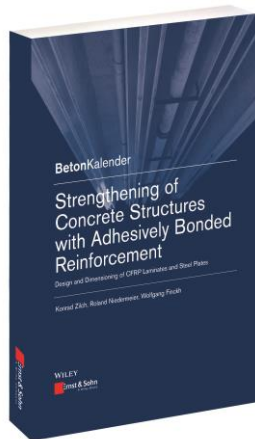


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## Strengthening of Concrete Structures with Adhesively Bonded Reinforcement

Design and Dimensioning of CFRP Laminates and Steel Plates

**The design and use of externally bonded CFRP strips, CF sheets and steel plates according to the German DAfStb guideline, which supplements the Eurocode. With design examples covering fatigue, creep, serviceability and ultimate limit state analysis for slabs, beams and columns.**

June 2014

158 pages, 171 figures,  
8 tables, Softcover.

ISBN: 978-3-433-03086-8  
49,90 €\*

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\* Prices incl. VAT plus shipping costs.

The explanations and background information provided are mainly based on the new German guideline "Strengthening of Concrete Members with Adhesively Bonded Reinforcement" by the German Committee for Structural Concrete (DAfStb). This is the first European guideline to regulate this topic in the form of a supplement to the Eurocode. As it is planned to produce a document in a future Eurocode 2, the DAfStb guideline serves as a starting point. The authors are extensively involved in the planning, design, operation and inspection of buildings for preservation and reconstruction, and in the updating of European Technical Approval Guidelines (ETAGs) and design rules.

Selected chapters from the German concrete yearbook are now being published in the new English "Beton-Kalender Series" for the benefit of an international audience.

Since it was founded in 1906, the Ernst & Sohn "Beton-Kalender" has been supporting developments in reinforced and prestressed concrete. The aim was to publish a yearbook to reflect progress in "ferro-concrete" structures until - as the book's first editor, Fritz von Emperger (1862-1942), expressed it - the "tempestuous development" in this form of construction came to an end.

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The publishing house Ernst & Sohn was founded in 1851 in Berlin/Germany. Today, Ernst & Sohn is one of the most well-known publishers in the field of civil engineering in German-speaking areas. One of its most famous titles is Beton-Kalender [Concrete Yearbook] which was first published in 1906. The publishing program of Ernst & Sohn consists of 11 professional journals and many books in German and English with the emphasis on reinforced concrete and steel structures, structural design and calculation, building physics, geotechnics and standardization supplies specialized knowledge for the learning and training of civil engineers in planning and execution. Structurae.de, the International Database for Civil and Structural Engineering with over 63,000 structures and about 180,000 images is available in German, English and French. Another online publication of Ernst & Sohn is the German language magazine for civil engineers and interested laypersons, [www.momentum-magazin.de](http://www.momentum-magazin.de). Ernst & Sohn is a subsidiary of the publishing group WILEY.

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