

Subject to priorities defined by the Technical Council and the Presidium, the results of <i>fib</i> 's work in Commissions and Task Groups are published in a continuously numbered series of technical publications called 'Bulletins'. The following categories are used:	
category	minimum approval procedure required prior to publication
Technical Report	approved by a Task Group and the Chairpersons of the Commission
State-of-Art Report	approved by a Commission
Manual, Guide (to good practice) or Recommendation	approved by the Technical Council of <i>fib</i>
Model Code	approved by the General Assembly of <i>fib</i>
Any publication not having met the above requirements will be clearly identified as preliminary draft.	
This Bulletin N° 61 was approved as a “Technical Report” by Task Group 1.1 in January 2011.	

This report was written by Working Party 1.1.3, Design examples for the application of strut-and-tie models, in *fib* Task Group 1.1, Design Applications. The Working Party consisted of the following members:

Karl-Heinz Reineck (Convenor; Univ. of Stuttgart, Germany)

Jão F. Almeida (JSJ Consultoria e Projectos Lda, Portugal), Carlos Bajo (Ferrovia Agromán SA, Spain), Sebastian Dieste Ballestrino (FHECOR Ingenieros Consultores, Spain), Stathis N. Bousias (Univ. of Patras, Greece), Jose M. Camara (Inst. Superior Tecnico, Portugal), Hugo Corres Peiretti (ETS de Ingenieros de Caminos, Spain), Ľudovít Fillo (Slovak Technical Univ., Slovakia), Stein Atle Haugerud (Dr. techn. Olav Olsen a.s., Norway), Toshio Ichihashi (Taisei Corporation, Japan), Milan Kalny (Pontex s.r.o., Czech Republic), Dan Kuchma (Univ. of Illinois, USA), Miguel Lourenço (JSJ Consultoria e Projectos Lda, Portugal), Duc Thanh Nguyen (Danang City, Vietnam), Fabrizio Palmisano (PPV Consulting, Italy), Santiago Pérez-Fadon (Ferrovia - Agromán, Spain), Hiroshi Shiratani (Taisei Corporation, Japan), Jean-Marc Voumard (VSL, Switzerland)

Short biographical summaries for the authors are given on pages 217-219.

Contact information for Task Group members can be found in the *fib* Directory or through the online services on the *fib* website, www.fib-international.org.

Cover image: see Example 3

© fédération internationale du béton (*fib*), 2011

Although the International Federation for Structural Concrete *fib* – fédération internationale du béton – does its best to ensure that any information given is accurate, no liability or responsibility of any kind (including liability for negligence) is accepted in this respect by the organisation, its members, servants or agents.

All rights reserved. No part of this publication may be reproduced, modified, translated, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission.

First published in 2011 by the International Federation for Structural Concrete (*fib*)

Postal address: Case Postale 88, CH-1015 Lausanne, Switzerland

Street address: Federal Institute of Technology Lausanne – EPFL, Section Génie Civil

Tel +41 21 693 2747 • Fax +41 21 693 6245

fib@epfl.ch • www.fib-international.org

ISSN 1562-3610

ISBN 978-2-88394-101-4

Printed by DCC Document Competence Center Siegmars Kästl e.K., Germany