



## SECOND ANNOUNCEMENT

# Design of Piles in Europe

How did Eurocode 7 change daily practice?

International Symposium

28 and 29 April 2016, Leuven, Belgium

Almost 20 years ago, ETC3 organised an international seminar dedicated to European practice for the design of axially loaded piles. Since that time, Eurocode 7 has been published and in many countries the approach to the design of geotechnical works has been adapted. For pile design, Eurocode 7 gives a framework where design methods should fit in, but does not provide any precise rules. Many European countries carried out a lot of research work, including field and model tests as well as pile-soil models in order to adapt their national rules. In many cases the results of that scientific work have been integrated in new regulations described in the National Annexes, codes or recommendations. A real need exists to exchange information on how pile design has evolved in the different European countries. This includes axially or laterally loaded, individual piles or pile groups,...

The first objective of the symposium is to give the European geotechnical engineers the opportunity to familiarise themselves with those various national design methods. It will also give comprehensive comparison material for better understanding and further research works. Each country represented in the ETC3 committee is invited to elaborate a detailed report concerning their national design methods. These national reports will be published in the proceedings.

.../...



### INSIDE THIS ISSUE

Detailed programme.....	2
General information.....	5
Registration .....	7

## ETC3 MEMBERS & LIAISONS

### **Chairman:**

M. Bottiau (BE)

### **Secretary:**

N. Huybrechts (BE)

### **Members:**

G. Axelsson (SE), S. Burlon (FR), M. England (UK), C. Fernandez-Tadeo (ES), K. Gavin (IE), K. Gwizdala (PL), P. Hoelscher (NL), R. Hofmann (AT), J. Josifovski (FYRM), C. Kolev (BG), J. Kos (CZ), A. Le Kouby (FR), A. Mandolini (IT), M. Mets (EE), O. Møller (DK), C. Moormann (DE), A. Ponomaryov (RU), L. Prieto (ES), J. Pusztai (HU), J. Santos (PT), A. Simonsen (NO), R. Stoevelaar (NL), P. Tolla (FI), J.P. Volcke (FR)

### **Liaisons:**

T. Orr (ETC10), A. Mandolini (TC 212), A. Bond (CEN TC 250/SC 7), C. Moormann (CEN TC 250/SC 7/WG 1/EG 7), C. Gilbert (CEN TC 288), J. Powell (CEN TC 341/ISO TC 182)

## INTERNATIONAL ADVISORY COMMITTEE

### **The International advisory committee is composed of:**

The ETC3 Members and Liaisons

A. Gens, European Vice President of ISSMGE

R. Frank, President of ISSMGE

F. De Cock, Former ETC3 Chairman

## ORGANISING COMMITTEE

### **The organisation of the Symposium is under the leadership of the ETC3 chairman and composed of:**

N. Huybrechts and M. De Vos, Belgian Building Research Institute - BBRI

W. Maekelberg and J.F. Vanden Berghe, Vice Presidents of the Belgian Member Society of ISSMGE

M. Roovers, President of the Belgian Association of Foundation Contractors - ABEF

2

.../...

During the symposium, a thematic analysis of the National Reports will be presented, enabling a better comparison. Attention will also be paid to the evolution of the standardisation with regard to the execution of piles. Special attention will be paid to the requirements regarding concrete for deep foundations (CEN/TC 288, CEN/TC 104, EFFC-DFI Activities) and will be discussed.

In addition to that, keynote lectures and special contributions will address the evolution of pile design according to Eurocode 7 (CEN/TC 250/SC 7), the standardisation on pile testing in Europe (CEN/TC 341/ISO TC 182) and the practical application of static, dynamic and rapid load testing in pile design. Additional topics such as quality control, monitoring and new measuring techniques will be covered. Many outstanding speakers have confirmed their participation.

It is the strong hope of the ETC3 committee that knowledge and understanding of the various national design methods will help geotechnical engineers to interpret the results obtained, enlarge their view on pile behaviour and encourage, to some extent, a convergence of the European design rules.



The active participation of the chairmen of the relevant standardisation committees dealing with design, execution and testing of piles will certainly contribute to this objective.

Maurice Bottiau, ETC3 Chairman

## PROGRAMME

---

Wednesday 27 April 2016

---

18.30 - 20.00 Registration & Welcome Reception

---

---

## Thursday 28 April 2016

---

08.30 – 17.30 Registration

08.30 – 09.00 Coffee

09.00 – 09.15 Opening address  
*R. Frank, President of ISSMGE*

09.15 – 09.45 Overview of the ETC3 activities and market of the different pile types in Europe  
*M. Bottiau, Chairman ETC3 Piles*

09.45 – 10.15 Eurocode 7 – Actual situation of geotechnical design in Europe  
*A. Bond, Chairman CEN TC 250/SC 7*

10.15 – 10.45 Design of piles according to Eurocode 7 – Expected evolutions  
*C. Moormann, Convenor CEN TC 250/SC 7/WG 1/EG 7 Pile design*

10.45 – 11.15 Coffee break

Discussion Session 1 – Pile design based on calculation methods

*Discussion leader : A. Mandolini, Chairman TC 212 / University of Naples*

11.15 – 11.45 General Report – Calculation methods based on soil parameters  
*A. Ponomaryov, Perm National Research Polytechnic University*

11.45 – 12.15 General Report – Calculation methods based on direct derivation from in situ tests  
*A. Van Seters, Fugro / Convenor of CEN TC 250/SC 7/WG 3*

12.15 – 12.30 Discussion

12.30 – 13.30 Lunch

13.30 – 14.15 Keynote lecture – Design examples : Comparison of different national design methods  
*T. Orr, Trinity College / Chairman ETC10*

14.15 – 15.00 Keynote lecture – Recent experiences with static pile load testing on real job sites  
*W. Maekelberg, Tuc Rail*

15.00 – 15.30 Coffee break

Discussion Session 2 – Pile design based on pile load tests

*Discussion leader I. Hermansson, Palanalis*

15.30 – 15.50 General Report – Design methods based on static pile load tests  
*S. Burlon, Ifsttar*

15.50 – 16.10 General Report – Design methods based on rapid pile load tests  
*M. Brown, University of Dundee*

16.10 – 16.30 General Report – Design methods based on dynamic pile load tests  
*O. Klingmüller, GSP / TC 341/WG 7*

16.30 – 17.00 Discussion

17.00 – 17.30 Special lecture – Accounting for cyclic effects in the design of off shore piles according with Eurocode 7  
*A. Puech, Fugro*

19.15 – 23.00 Evening Banquet

---

## Friday 29 April 2016

---

08.30 – 12.30 Registration

08.30 – 09.00 Coffee

Discussion Session 3 – Structural capacity, material and execution related aspects and other loadings

*Discussion leader : G. Axelsson, ELU Konsult*

09.00 – 09.45 Keynote lecture – Execution of piles in Europe, standardisation issues and future perspectives  
*C. Gilbert, Systra / Chairman CEN TC 288*

09.45 – 10.30 General Report – Execution related aspects with special focus on materials and structural capacity  
*D. Selemetas, Skanska*

10.30 – 11.00 Coffee break

11.00 – 11.30 Keynote lecture – Concrete for deep foundations : Activities of Task Group EFFC/DFI & joint activities CEN TC 288/CEN TC 104  
*K. Beckhaus, Bauer*

11.30 – 12.00 Discussion

12.00 – 12.30 Special lecture – Deep foundations vs. soil improvement  
*S. Varaksin, Vice-chairman TC 211*

12.30 – 13.30 Lunch

Discussion Session 4 – Monitoring, quality control and testing practice

*Discussion leader P. Tolla, Finnish Transport Agency*

13.30 – 14.00 General Report  
*J. Powell, Geolabs / Chairman CEN TC 341 / ISO TC 182*

14.00 – 14.30 Keynote lecture – New advances and innovations in measurement techniques and quality control tools  
*N. Huybrechts, BBRI*

14.30 – 15.00 Discussion

15.00 – 15.30 Special lecture – R&D activities on pile foundations in Europe  
*Lecturer to be determined*

15.30 – 15.45 Conclusions and closing of the Symposium  
*M. Bottiau, Chairman ETC3*

---

## GENERAL INFORMATION

### Venue

#### **Hotel Park Inn by Radisson**

Martelarenlaan 36  
B-3010 Leuven  
Belgium

Phone: +32 (16) 61 66 00  
Fax: +32 (0) 16 61 67 00  
[www.parkinn.com/hotel-leuven](http://www.parkinn.com/hotel-leuven)  
Email: [info.leuven@rezidorparkinn.com](mailto:info.leuven@rezidorparkinn.com)

### How to reach

**Leuven is situated at 30 km east of Brussels.**

#### **By train:**

The Park Inn by Radisson Leuven lies just 20 metres from Leuven Central Station (connection by a pedestrian bridge).

Leuven Central Station offers many connections to all corners of Belgium.

From the train station Bruxelles-Midi (Thalys, Eurostar) and the Brussels city centre, it's only 25 minutes by train.

#### **By plane:**

Brussels International Airport is located 25 kilometres from Leuven. The direct train connection from the airport to the Park Inn by Radisson Leuven takes only 15 minutes.

#### **Car parking:**

The Park Inn by Radisson does not provide private parking. However, parking is available for a maximum of € 20 per day in the public parking garage under the hotel. During weekends, the cost is € 10 per day.

### Accommodation

A limited number of rooms at a reduced rate (single standard room : € 139/night, breakfast included) have been blocked until 26 February 2016 at the Hotel Park Inn by Radisson\*\*\*. To obtain the reduced rate, please mention "ISSMGE" when contacting the hotel or make your reservation via the following link :

<http://www.parkinn.com/hotel-leuven/hotel-deals/ISSMGE>

### Banquet

The banquet will take place in the old brewery of "Stella Artois".



**SYMPOSIUM  
WEBSITE**

[www.etc3.be/symposium2016](http://www.etc3.be/symposium2016)

**SYMPOSIUM  
SECRETARIAT**

Carine Godard  
Lozenberg 7  
B-1932 Sint-Stevens-Woluwe  
Belgium

Email: [carine.godard@bbri.be](mailto:carine.godard@bbri.be)  
Phone: +32 (0) 2 655 77 11  
Fax: +32 (0) 2 653 07 29



## *Publications*

The Proceedings of the symposium including the National Reports will be distributed to the participants upon their registration.

## *Official language*

The official language of the symposium (oral communications and papers) will be English.

## *Registration*

To register to the symposium, please duly fill in the registration form as soon as possible and send it to the symposium secretariat. Registration is also possible via the symposium website.

Registration fees include the access to the symposium, the welcome reception on Wednesday 27 April 2016, coffee breaks, lunches and one copy of the proceedings. The banquet on Thursday 28 April 2016 is optional.

Early bird registration till 31 December 2015.

GOLD  
SPONSOR





**ETC3 SYMPOSIUM "DESIGN OF PILES IN EUROPE"**  
**HOW DID EUROCODE 7 CHANGE DAILY PRACTICE ?**  
**28-29 APRIL 2016, LEUVEN (BELGIUM)**

**ETC3 - Piles**

**REGISTRATION FORM**

Mrs/Ms/Mr ..... Family Name: ..... First Name: .....

Organisation/Company: .....

Department: : ..... Function: .....

Address: .....

Postal Code: ..... City: ..... Country: .....

Phone: ..... Fax: ..... Email: .....

---

Welcome reception	Free
<input type="checkbox"/> Yes	
<input type="checkbox"/> No	

---

Symposium early bird registration (before 31 Dec 2015)	
<input type="checkbox"/> ISSMGE member	€ 375
<input type="checkbox"/> Non member	€ 450
<input type="checkbox"/> MSc and PhD Students	€ 250

Symposium late registration	
<input type="checkbox"/> ISSMGE member	€ 475
<input type="checkbox"/> Non member	€ 550
<input type="checkbox"/> MSc and PhD Students	€ 350

---

Banquet	
<input type="checkbox"/> Yes	€ 80
<input type="checkbox"/> No	-
<input type="checkbox"/> Accompanying person	€ 80

---

Sponsoring*	
<input type="checkbox"/> My company will sponsor the Symposium	
<input type="checkbox"/> Gold Sponsor	€ 2 500
<input type="checkbox"/> Silver Sponsor	€ 1 000

*\* Advantages linked to the sponsorship can be found on the symposium website ; the symposium secretariat will contact you for further information*

**PAYMENT :**

By bank transfer : I hereby forward the amount\* of € ..... (Ref. ETC3 2016 + Name of the participant) to the Belgian Member Society of ISSMGE, IBAN BE73 0013 9895 9460, BIC/SWIFT GEBABE BB (\* Bank charges to be added to the amount)

By credit card :

Visa       Eurocard-Mastercard       American Express

I hereby authorize the Belgian Member Society of ISSMGE to charge € ..... to my credit card.

Credit card number : .....      Cardholders' signature :

Expiration date : .....

Full name of cardholder as it appears on the card : .....

Date : .....      .....