

Welcome to EUPAVE's 10th workshop on Best Practices

Dowels and tie-bars in concrete pavements



Words of welcome and introduction to the workshop

By Luc Rens, Managing Director, EUPAVE



Our mission

EUPAVE's mission is

- to advocate and enable wider use of cement and concrete applications in European transport infrastructure by
 - engaging with EU, national and local decision makers,
 - disseminating technical know-how and communicating benefits and
 - promoting innovation and best practices in the sector.



EUPAVE's members

- Cembureau
- Cement&Beton Centrum
- FEBELCEM
- GOMACO
- InformationsZentrum Beton
- Holcim
- Oficemen
- Polish Cement Association
- VÖZ
- BETONSUISSE
- Britpave
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- Gütegemeinschaft Betonschutzwand & Gleitformbau e.V.





- Premcrete
- Somero
- Turkcimento
- Wirtgen















































EUPAVE's partners

- · AB-Roads
- Aannemingen Sico
- · Besix infra
- Colas Noord
- · Chem-crete
- Christian Paglia
- KWS Infra B.V.
- · Michael Darter
- MIT Mess- und Prüftechnik GmbH
- Otto Alte-Teigeler GmbH
- Otto Brentzel
- Robuco
- · Roos Groep
- · Sepehr Ghafari
- Specbea
- Stadsbader
- TRBA
- · Willemen Infra
- ZBS
- Zeta Industry



































Previous Workshops on Best Practices

1st workshop on Best Practices in Concrete Paving, 26 May 2015	Achieving and maintaining the evenness of concrete pavement
2nd workshop on BP in CP, 17 February 2016	Joints in concrete pavements
3 rd workshop on BP in CP, 23 February 2017	The right concrete mix for the right surface
13 th International Symposium on Concrete Roads, 2018	
4th workshop on BP in CP, 18 June 2019	Hydraulically Bound Base Layers and RCC pavements
5th workshop on BP in CP, 14 October 2020	Concrete Pavement Preservation
6 th workshop on BP in CP, 19 October 2021	Pervious concrete pavements: an overview of European experiences
7 th workshop on BP in CP, 19 October 2022	Concrete Overlays
8 th workshop on BP in CP, 19 April 2023	Outdoor industrial and heavy-duty concrete pavements
9th workshop on BP in CP, 22 May 2024	Non destructive auscultation and monitoring techniques for concrete pavements

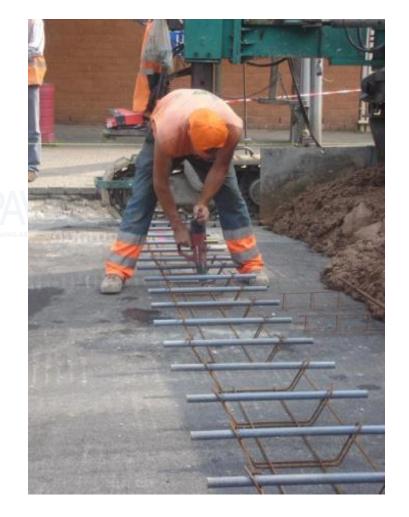






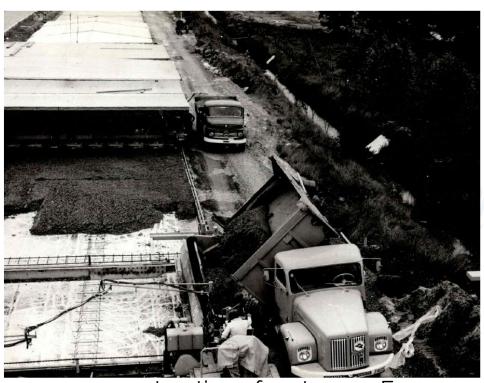
Dowels and tie-bars

- From a 1970's Belgian pavement course:
 - "No road builder today doubts the usefulness, and even the necessity, of inserting devices in the transverse and longitudinal joints to ensure load transfer. These devices guarantee the preservation of the evenness of the road surface and allow calculations to exclude loads in the corners, which would otherwise require significantly thicker plates. All this was confirmed by the AASHO Road Test...."





Dowels and tie-bars



 1972 – construction of motorway E3 Gent-Kortrijk in Belgium



■ 1974 - use of dowels



Dowels and load transfer

- Load transfer is a key aspect for comfortable and long-lasting concrete roads
- EUPAVE will organise a series of events (webinars, discussion workshops...) on this topic





















Programme

Moderation by Mr. Jeroen de Vrieze, Cement&Beton Centrum

13:30 - 14:00	Welcome coffee and registration
14:00 - 14:10	Words of welcome and introduction to the workshop By Luc Rens, Technical Director, EUPAVE
14:10 - 14:30	More than 50 years of reliable load transfer solutions in Europe By Dirk Brentzel, CEO, Otto Brentzel
14:30 - 14:50	Glass fibre reinforced products, are you ready for the future? By Tom Roos, CEO, Roos Groep
14:50 - 15:10	From design to practice By Anne Beeldens, Owner, AB-Roads
15:10 - 15:30	Coffee break
15:30 - 15:50	Never too late for dowels or tie-bars – the techniques of dowel bar retrofitting and cross stitching By Pascal Buys, Owner, Robuco
15:50 - 16:10	Standardisation of dowels – where are we now? By Luc Rens, Technical Director, EUPAVE
16:10 - 16:30	Q&A
16:30	Closing reception



Practical information

- All participants are muted & camera off
- Questions in the chatbox
- Presentation will be made available afterwards



More than 50 years of reliable load transfer solutions in Europe

By Dirk Brentzel, CEO, Otto Brentzel



Glass fibre reinforced products, are you ready for the future?

By Tom Roos, CEO, Roos Groep



From design to practice

By Anne Beeldens, Owner, AB-Roads



Coffee break



Never too late for dowels or tiebars – the techniques of dowel bar retrofitting and cross stitching

By Pascal Buys, Owner, Robuco



<u>Standardisation of dowels – where are we now?</u>

By Luc Rens, Technical Director, EUPAVE



Q/A



Acknowledgements

- All speakers for their tremendous efforts in preparing the presentations and the willingness to share their knowledge and experience with us
- All our Members & Partners for the support to our association
- YOU all, present today, live or online, for showing your interest in EUPAVE and the concrete pavement technology



Thank you for your participation

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