



municipal concrete roads

according to actual german standards

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main standards for concrete roads

contractual documents:

- ZTV Beton-StB „Zusätzliche technische Vertragsbedingungen“
(additional terms of contract)
- TL Beton-StB „Technische Lieferbedingungen“
(terms of delivery of building materials“)

main standards for concrete roads

contractual documents:

- ZTV Beton-StB „Zusätzliche technische Vertragsbedingungen“
(additional terms of contract)
 - standards and regulations for the execution of concrete roads
- TL Beton-StB „Technische Lieferbedingungen“
(terms of delivery of building materials)
 - quality and technical properties of building materials

main standards for concrete roads



Forschungsgesellschaft für Straßen- und Verkehrswesen



Arbeitsgruppe Betonbauweisen

**Zusätzliche Technische
Vertragsbedingungen und Richtlinien
für den Bau von Tragschichten
mit hydraulischen Bindemitteln
und Fahrbahndecken aus Beton**

R 1

ZTV Beton-StB 07

Ausgabe 2007

Forschungsgesellschaft für Straßen- und Verkehrswesen



Arbeitsgruppe Betonbauweisen

**Technische Lieferbedingungen
für Baustoffe und Baustoffgemische
für Tragschichten mit hydraulischen
Bindemitteln und Fahrbahndecken
aus Beton**

R 1

TL Beton-StB 07

Ausgabe 2007

main standards for concrete roads



.....composed mainly for concrete highways!







RHENUS
LOGISTICS
CO-PACKER
ALBINGSTRASSE 100

ab
albin borer ag

EDWIN

carhant

OUTLET CITY

the outlet

café



2007: first german roundabout in concrete

...standards became an important issue!



2007: first german roundabout in concrete



...standards became an important issue!

- Roads outside of highways can also be heavy loaded (most roundabouts are heavy loaded!)
- The use of the more durable concrete instead of asphalt became more and more common in some regions of germany.
- Concrete was increasingly used in roundabouts, bus traffic areas, intersections and parking areas for heavy loaded Trucks.

2007: first german roundabout in concrete

...standards became an important issue!

Code of practice for the planning, design and construction of concrete traffic areas

Merkblatt
für
Planung, Konstruktion und Bau
von Verkehrsflächen aus Beton

M VaB

Teil 1
Kreisverkehre, Busverkehrsflächen
und Rastanlagen

R 2

2013:
roundabouts,
bus traffic areas,
service areas on highways

Ausgabe 2013

Merkblatt
für
Planung, Konstruktion und Bau
von Verkehrsflächen aus Beton

M VaB

Teil 2
Stadt- und Landstraßen
sowie plangleiche Knotenpunkte mit
Hinweisen zur Baulichen Erhaltung

R 2

2015:
city roads, country roads
intersections, structural
maintenance

Ausgabe 2015

concrete roads (not in highways)

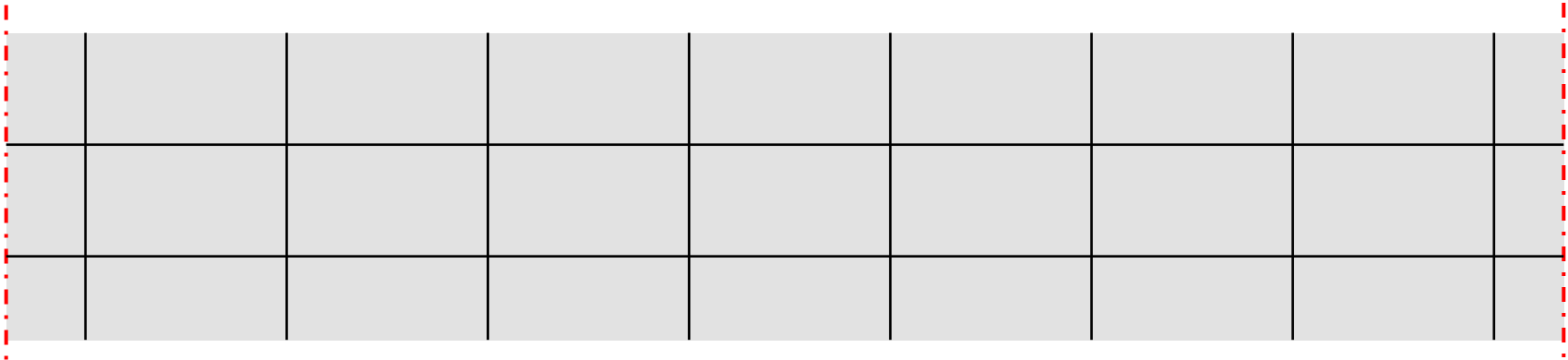
...revision and combination in 2026



highways and municipal roads in concrete - what is the difference?

➤ the design of the joint system can be much more complicated

joint system of a usual highway construction...



highways and municipal roads in concrete

- what is the difference?

- the design of the joint system can be much more complicated
- ...and in a random concrete roundabout...



highways and municipal roads in concrete - what is the difference?

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- using readymixed concrete requires a special pattern of testing and contractual acceptance

highways and municipal roads in concrete - what is the difference?



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highways and municipal roads in concrete

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- machinery and equipment are very different and must be properly tailored for every single project
- using readymixed concrete requires a special pattern of testing and contractual acceptance
- The number of designers and contractors with sufficient knowledge is still limited (technical guidance is necessary!)

highways and municipal roads in concrete - what is the difference?



- The number of designers and contractors with sufficient knowledge is still limited (technical guidance is necessary!)

Unfortunately this also applies to the technical representatives of the client!



main standards for concrete roads

use of Concrete instead of asphalt still increases

- The use of concrete in municipal roads is basically established and increasing.
- Standards and contractual documents are available.
- The coming new versions of
 - the main standards
 - and of the Leaflet „Code of practice for the planning, design and construction of concrete traffic areas”

Contain both coordinated instructions and regulations für concrete roads outside of highways.

Thank you for your kind attention

...and if you have a question not everyone should listen to:

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