

# Bělotín – bypass construction

### high-speed communication R48

**country:** Czech Republic

**realization:** 2004 – 2007

**material:** Kortex® GT 600/50

..... 14.000 m<sup>2</sup>

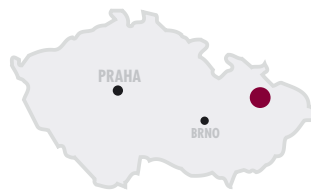


## KORTEX® GT

woven geotextile from high-strength PET for soil reinforcement, separation and filtration

### purpose of usage:

soil reinforcement in three layers to ensure the general stability of earth structure



High-speed road R48 is one part of further development of trans-European corridor No.VI. In future it will replace existing road I/48, which is the significant connecting line especially for long-distance transport (to Poland through border crossing Chotěbuz). Nowadays it also forms the only capacitive connection of Ostrava with the highway network.

Technical state and width parameters of this road are not satisfactory for existing traffic demands. The part from Bělotín to Rychaltice is in parameter of four-lane road without central strip (category S16). It resulted into series of very tragic accidents. In addition the road in this section had very bad surface.

Constructed road I/48 turns left near village Bělotín. It crosses the field-path, track 4D, brook Luka and pond by flyover bridge with length of bridging 580 metres. It further continues on South edge of Bělotín. It goes above the proposed road I/47 by another bridge and is connected with existing I/47 by left-handed curve.

In the direction to Bělotín the proposed road is connected to existing I/48 by branch lane. In opposite direction (from Bělotín to Nový Jičín) there is proposed one-way two-lane ramp No. 1, which will be liquidated during further realization of highway feeder road D47. Three sedimentary reservoirs (which will provide the taking away of leakage of petroleum and oil from passing vehicles) will be built in the area.

On the building site there is used woven polyester geotextile **Kortex® GT 600/50** for reinforcement of dump in front of and also behind the direction from Bělotín to Nový Jičín.

### Reinforcement was done in three layers:

- woven PET geotextile **Kortex® GT 600/50**
- 700mm made-up ground of overburden with very coarse fraction
- woven PET geotextile **Kortex® GT 600/50**
- 500 mm of overburden
- woven PET geotextile **Kortex® GT 600/50**

Placement of geotextile **Kortex® GT** was made in three weeks in the middle of November 2004.

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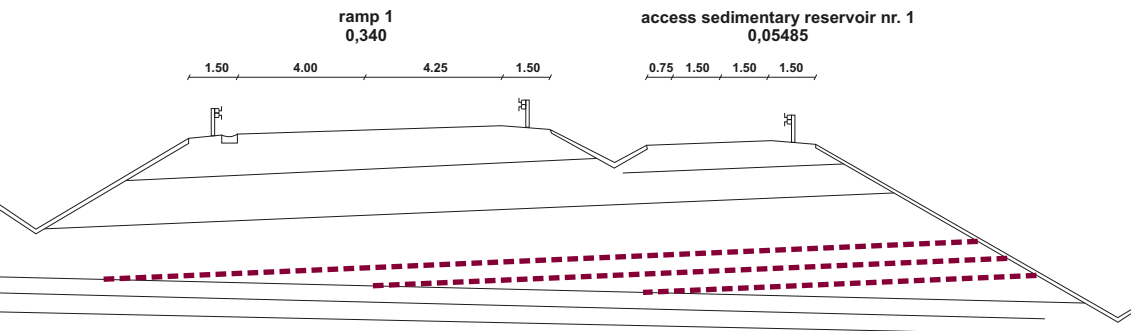




# KORDARNA

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## Cross section – 0,340



geotextile Kortex® GT 600/50



**investor:**

Ředitelství silnic a dálnic ČR, Praha

**designer:**

Dopravní stavby Projekce s.r.o.,  
Prostějov

**contractor:**

Sdružení  
pro realizaci stavby R48 Bělořín  
(Skanska DS, SSŽ, Strabag)

**engineer:**

Joint Venture  
(Nicholas O'Dwyer & Ltd.,  
Ireland; iproplan mbH, Germany)

**realization:**

01/2004 – 05/2007