

# ■ **Project report - tunnel Vomp-Terfens, Tirol**



# FRANK Puddle flange

## A sealing system for drainage and drainage manholes



### Project report – tunnel Vomp-Terfens, Tirol

For the railway line between Munich and Verona several new tunnels are constructed in the section of Kufstein-Innsbruck. FRANK GmbH delivered more than 200 large sized puddle flanges 1200mm to seal the drainage manholes.

### Project data

Tunnel dimensions:  
Main tunnel 8,48 km long,  
rescue tunnel 5,89 km, 12  
crossways, 3 galleries, 3  
rescue manholes with con-  
nection galleries, two- and  
three rails railway tunnel,  
costs approx. 170 million  
Euro.

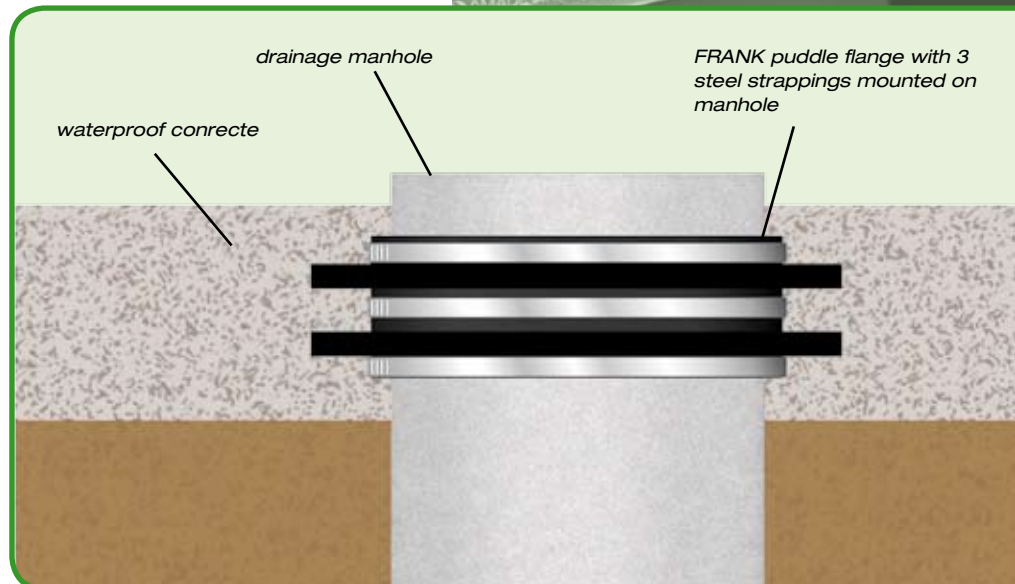
Constructor:  
*Brenner Eisenbahn GmbH*

Puddle flange:  
*FRANK GmbH,  
Mörfelden-Walldorf*

Planning:  
*Geoconsult GmbH  
Wals near Salzburg*

Construction supervision:  
*Konsortialgemeinschaft  
Bernhard + Partner*

Execution of construction  
work:  
*Arge Tunnel  
Vomp-Terfens  
Strabag, Züblin, Hochtief*



*Puddle flange mounted on manhole*

The puddle flange is an invention of Frank GmbH. More than 700.000 successful applications as sealing system in waterproof concrete for decades. The excellent results of pressure tests, made by an independent institute of material testing document the sealing function of the puddle flange.

Admissible pressure difference:  
from d 32 up to d 315 = 6bar  
from d 355 up to d 1400 = 1bar



*Manhole before pouring the waterproof concrete*