

## Reference

# Perfect protection for septic tanks

### Client:

Abwasserzweckverband Ermstal,  
Metzingen

### Site:

Metzingen sewage treatment plant

### KAEFER services

Durable, energy-efficient new cover for 2 septic tanks with  
a total surface area of 2,100 m<sup>2</sup>.

### Zeitraum

2nd half of 2014

The sewage treatment plant in Metzingen went into service in 1975 and processes some 12 million m<sup>3</sup> of sewage a year from 5 neighbouring municipalities. In 2014 KAEFER was contracted to refurbish the insulation and the outer shell of two septic tanks in Metzingen. Once the old insulation and the cladding had been removed, our technicians fitted a new custom-built support system to which they then attached the insulation, consisting of two layers of mineral wool encased in fibreglass. The new outer shell is made of continuous panels of aluminium sheeting and is attached to a system of rails designed specially by KAEFER, so that the new insulation is protected durably and reliably from wind and weather.

### > Heat insulation



### > Cold insulation



### > Noise protection



### > Fire protection



### > Scaffolding



## Scope of work

- > Replacement of insulation, framework and outer shell on 2 septic tanks in Metzingen
- > Optimisation of the insulation for the septic tanks, which have a constant interior temperature of +35 °C
- > Scaffolding to enable execution of the work

## Implementation

- > 2,100 m<sup>2</sup> of insulation, consisting of 160 mm of mineral wool in two layers
- > Prefabrication and assembly of the framework
- > Outer shell in continuous panels of 1 mm coated aluminium sheet
- > Stable and flexible rail system prefabricated in house

## Customer benefits

- > The precisely dimensioned and carefully fitted insulation reduces energy losses and so continuously cuts operating costs
- > The system of supports and cladding makes the new insulation particularly durable, low-maintenance and resistant to wind and weather
- > The flexible system adapts to any irregularities on the surface of the concrete structure



Our locations  
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Are you interested in more examples of our  
services? A selection of references is available  
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