

# Car Park 2019/2

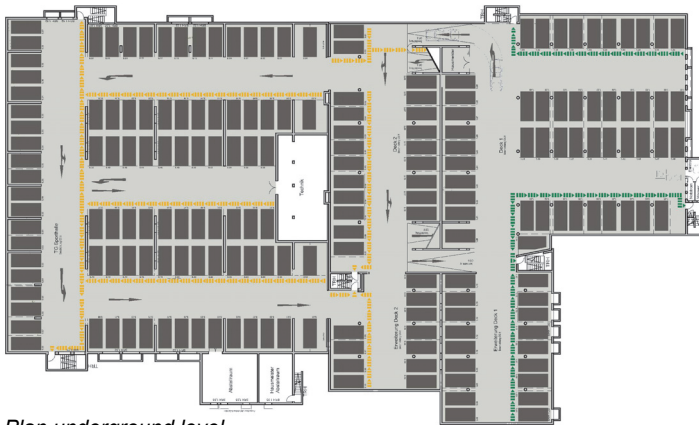
## Restoration of underground car park of the vocational training school Reutlingen

The original underground car park of vocational training school is a reinforced concrete structure dating from 1979 which originally had 184 parking spaces. It was extended in 1991 and today, after the repair, a total of 284 car and 24 motorcycle parking spaces are available.

The structure showed considerable carbonation and chloride damage, which was formed from the cracks in the mastic asphalt of the two open decks also from leaking joints, cracks and non-functioning drainage.

After removing the mastic asphalt, the concrete containing chloride was removed by means of ultra high pressure water jets. Leaky expansion joints were sealed with waterproof profiles. A screed falls was laid, a drainage system and a surface protection system were installed in the roofed areas. A new colour concept and charging stations for electric vehicles were also implemented.

The repair took place in several construction phases, coordinated within the school holidays.



Plan underground level



Reinforced concrete beam before restoration



Corroding steel beam before restoration



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Open deck after renovation

**Client:**

County Reutlingen

**Planning services AMP:**

General planner

**Building contractor:**

Ed. Züblin AG, Bauwerksinstandsetzung

**Car park information:**

Number of parking bays:	308
Parking bay width:	2,30 m
Gross car park area:	7.980 m <sup>2</sup>
Net Building cost:	1.902.000 €
Build begin date :	July 2018
Opening date:	December 2019



External view of car park



Underground level after restoration