

## Objektbericht *Project Report*

### Public observatory Teplice/CZ

### Titanium zinc domes in exposed position

Integration into the landscape instead of dominating technology. This was the main idea behind the modernization and expansion of the observatory in the North Bohemian city of Teplice. Above the natural stone base, untreated wood facades rise up, crowned by two striking domes. The wooden construction of the two observation towers was given a roof covering of RHEINZINK-prePATINA blue-grey over an area of 200 m<sup>2</sup>. In the course of time, the domes, as well as the wood of the facade, will develop a natural patina, allowing the observatory to visually "grow" more and more into the wooded surroundings.



Natural stones, wood and titanium zinc characterize the view of the modernized observatory of Teplice. Like the facades, the domes develop a natural patina over the course of their lifetime, integrating the building harmoniously into the landscape on the top of the mountain. Photo: Rheinzink

### Exposed position

The exposed location on a mountain peak was a further argument in favour of titanium zinc, because even under intensive weathering the roof covering will fulfil its function permanently and maintenance-free. Hail had been particularly damaging to the previous aluminium roofing. The northwest tower was so badly damaged that its roof dome had to be completely replaced. The new construction, including the roof covering, was prefabricated and placed on the building as a whole. The tinsmith cut conical shares from 670 mm wide coils and processed them into standing seam roofing on the 5 m diameter dome.



Conical titanium zinc shares for the domes and the elegant curve of the opening wings provide a functional, but also visually exciting architecture. A special challenge was the (impact-)rainproof connection of the movable wings to the rotating dome. Photo: Rheinzink

### Opening wing

The south-east tower proved to be less damaged. Thus, the old construction was re-covered on site. Special challenges on both domes were the opening wings for the observation slit, which were clad with titanium zinc. On the one hand, they must seal the dome opening so that it is wind- and driving rain-proof, but on the other hand, they must also leave enough clearance for the wings to open. The tinsmith companies have also solved this detail convincingly, so that the modernized Teplice

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Observatory can now offer public astronomical observations again.

Project: Conversion and extension of the public observatory Teplice/CZ

Client: District of Ústí nad Labem

Architect: atelier AVN s.r.o., Usti nad Labem/CZ

Plumbing: Krolan s.r.o., Praha and Roman Zíka, Teplice (one dome each)

Material: 200 m<sup>2</sup> RHEINZINK-prePATINA blue-grey, double standing seam system

Construction period: 2016-2018

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