



## Revitalization of Jiřího z Poděbrad metro station (CZ)

### Sheet Waterproofing

<b>Country</b>	Czech Republic
<b>Type</b>	Metro Station
<b>Client</b>	Praha transport authority DPP
<b>Main Contractor</b>	Strabag, AŽD Praha
<b>Execution of the work</b>	Renesco a.s.
<b>Designer</b>	Metroprojekt Praha a.s.
<b>Construction Period</b>	2023

## Project Description

Revitalization of the Jiřího z Poděbrad metro station on the A line in Prague 3. As part of the renovation, the station will become barrier-free. A new exit from the station will include elevators from the platform to the street level in Vinohradská Street. The station and its vestibule will also acquire more efficient lighting, wiring, and air conditioning. This work will be carried out with full metro operation most of the time, with only sporadic disruptions. For technical reasons, two elevators will be needed with a transfer partway in the journey. The first shaft will reach a depth of 31 meters. Work will then continue for a nearly 60-meter-long transfer corridor above the platform ceiling. Another shaft of 19-meter depth will be excavated for a second pair of elevators. The total depth of the shafts and related work will be more or less 50 meters below the surface of the square. Interesting facts from the revitalization of Jiřího z Poděbrady metro station: As part of the revitalization of the Jiřího z Poděbrady metro station, extensive remediation of leaks took place on a total area of approximately 8,000m<sup>2</sup>, approximately 1,400m<sup>2</sup> of slatted ceilings were replaced, over 3,000m<sup>2</sup> of aluminium cladding was removed, cleaned or replaced, approximately 1,600m<sup>2</sup> of stone cladding was replaced, installed more than 90 new electrical switchboards and more than 31 kilometres of cable bridges.

## Scope of Service

Supply & install of the waterproofing system for the shafts, cross-passages and transfer tunnels.

- Polypropylene (PP) protection geotextile of 800g/m<sup>2</sup>
- PVC-P based sheet waterproofing membrane system with 3.1mm thickness including a signal layer.
- Expansion & construction joint water barriers of 500mm width, 6 ribs and with 4 x 6mm injection hoses for possible chemical remedial grouting
- Sealing of 18 pcs of cable ducts using stainless steel flanges with a diameter of 250 mm
- Connection to the existing stations using adhesive tapes and epoxy glue in locations of prefabricated segments.



1. Waterproofing Installation, invert
2. Cable ducts using stainless steel flanges
3. Existing Escalator