



PL – Renovation of the Burakowski collector in Warsaw

In 2020, Amiblu finished the construction project in Warsaw, which involved the renovation of the 4,825-meter-long Burakowski Collector.

The Burakowski Collector was built and put into use around 1961. Due to the fact that it was already heavily corroded and there were numerous cracks causing leaks, MPWiK decided to repair it. The criteria for the selection of renovation technologies for individual sections of the collector in question were the durability of the renovation technology, resistance to external and internal loads, existing cracks and the general condition of the sewer. Moreover, in some sections, due to the new road surfaces, renovation technologies have been limited to methods that allow the construction of transmitting and receiving chambers only in green areas. The methods that were finally used in this project were CIPP, lining with basalt tiles, and mainly relining with the use of GRP modules.

Country City	Poland Warsaw
Year of construction	2019-2020
Application	Sewer
Total length	4825 m
Nominal diameter	DN 2750/3056 mm, DN 2846/3146 mm, DN 1183/1508 mm
Nominal pressure	PN 10 bar
Nominal stiffness	SN 10000 N/m ²
Technology	Flowtite, NC Line
Installation	Relining
Contractor	Blejkan
Client/Investor	MPWiK Warsaw

With the Amiblu NC Line modules, the wall thickness of the new panel was achieved to be as minimal as possible and the weight was significantly reduced compared to the corresponding modules made of other materials, which made them easier to transport, install and maneuver on site. GRP modules were used, the strength of which guarantees resistance to deformation due to external factors during storage, transport or assembly.

In the capital, it was also crucial to minimize the renovation time, reduce the use of ground space during the work, and limit traffic disruptions. Solid panels with a full-wall structure, resembling a round pipe, but with non-circular dimensions, i.e. DN2750/3056 mm, DN 2846/3146 mm or 1183/1508 mm, and full-wall egg panels, i.e. 1103/1824, were used.

For round collector threads, Amiblu Flowtite pipes with the following diameters were used: DN2886m, DN1692, DN1229, DN1800. For the

purposes of this project, the Amiblu factory in Gdańsk made appropriate adaptations of the production line and in January 2019 produced the required full-wall panel made of ECR continuous filament and resin, the so-called FullGlass (according to ITB-KOT-2018/0733 edition 2 of 2019). The results of the tested products confirmed the high parameters of the panels, and in some parameters, such as ring stiffness, meeting them several times above the level of standard SN10 panels.

The successful completion of the Burakowski Collector renovation project in Warsaw demonstrates Amiblu's ability to deliver durable, efficient, and sustainable solutions for complex infrastructure challenges, ensuring long-term reliability while minimizing disruption to the city.

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