



Amiblu®

Cooling water system for power plant Opole

As part of the project, two independent pipeline systems DN 3400, PN 10 and SN 10000 were made: For unit No. 5 with a total length of 505 m and for the block No. 6 with a length of 225 m together with fittings, supports and passages through the reinforced concrete walls.

Criteria:

- Low hydraulic resistance
- No corrosion or abrasion
- Long durability
- No maintenance

Country City	Poland Opole
Year of implementation	2015 - 2016
Use	Energy
Length	5 730 m
Nominal Diameter	DN 3400
Nominal Pressure	PN 10 bar
Nominal Stiffness	SN 10000 N/m ²
Technology	Flowtite
Installation Type	Open Trench
Investor	PGE S.A.

In March 2015, Amiblu received an order for the design and delivery of cooling water pipelines for the power plant Opole in southern Poland. Due to an expansion of the power plant, two independent cooling water systems were needed outside the engine room for the newly built power units No. 5 and 6. As part of the project, two independent pipeline systems DN 3400, PN 10 and SN 10,000 were constructed: for unit No. 5 with a total length of 505 m and for unit No. 6 spanning 225 m, both including fittings, supports and passages through reinforced concrete walls.

At the points where the axial forces act, thrust blocks and biaxial technology are used to transfer the axial forces. The installation was carried out in winter. Given the configuration of the cooling water pipelines beneath the roads, the investor proposed encasing the entire pipeline in concrete. Due to the expansion of the power plant by two new units, the investor also decided to build a new water treatment plant and a make-up water system for all blocks. In the years 2014-2018, Amiblu provided approx. 5 km of uni- and biaxial GRP pipes DN 300-1200 for all external water transport networks throughout the entire power plant.

Flowtite GRP DN3400 PN10 cooling water pipelines – exit from the engine room of unit No. 5

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