References

Drainage system for heat and power station



Uponor involvement

VipLiner jacking drainage module VL-PD DN630mm L=1 m with cross-axial slots (240 slots of 150x1.5mm) – 895 modules

Drainage system for heat and power station

Slotted drainage VipLiner module made by Uponor Infra has been chosen to build a drainage system for heat and power station of Gdynia.

The heat and power plant in Gdynia struggled with choking drainage ducts and the resultant elevated level of ground water, which would lead to flooding of the underground levels of the facility. The construction of a classic drainage system using excavation methods was seriously challenged and even impossible in many places due to collisions with numerous underground systems as well as the protective zones of overhead power lines. As a result, a decision was taken to build a new drainage network in the trenchless technology with the use of jacking drainage VipLiner DN630mm modules from Uponor Infra.

Project Facts:

Location
Gdynia, Poland

Completion
2016

Building Type
Industrial

Product systems
Drainage, Tailor made constructions,
Industrial pipes

Project Type
New building

Partners

Designer:
Dr Eng. Marcin Blockus (Ingeo Sp.z o.o, Gdynia)
Investor:
EDF Polska S.A. Gdynia Heat and Power Station
Contractor:
Przedsiębiorstwo Budownictwa Ogólnego i Robót Inżynieryjnych "INŻYNIERIA" Sp. z o.o. Płońsk

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VipLiner drainage modules feature solid polyethylene (PE) pipes with smooth inner and outer surfaces. Due to their strength characteristics, special technology and geometry of their outer layer grooving, the modules can be used for trenchless drainage systems which lower the level of ground waters. VipLiner 1-metre drain module have slots made using a water jet cutter. 240 slots of 150mm x 1.5mm in size are spaced in perpendicular along the axis. Their cross-section has a wedge shape, with the narrower opening at the inner surface. Such cross-sectional geometry creates a natural reverse filter, ensuring that the soil surrounding the drain pipe is not washed away.

This world-first method is innovative and patented!

Slotted drainage VipLiner module has been awarded the TYTAN 2016 Award in the ‘Product of the Year’ category during the XIV International Conference "Trenchless Engineering" in Krakow.

Drainage system for heat and power station









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