



Key-Lock® mechanical Joint



Drainage Water Line using Bondstrand® 3400 GRE pipe

Economic association “Thermal Power Plants and Mines Kostolac” Ltd. is an energy company operating as part of the Electric Power Industry of Serbia. The company’s basic activity is production of thermal electricity but also produces coal for thermal power plant.

TE KO “Kostolac” Ltd. consists of the following production capacities:

- Open Pit Mine “Ćirikovac”
- Open Pit Mine “Drmno”
- Thermal Power Plant “Kostolac A”
- Thermal Power Plant “Kostolac B”

“Drmno” Open Pit Mine has been in use since 1987 and is now the main coal production facility in the Kostolac coal basin. Projected production capacity of this mine is 6.5 million tons of coal per annum in the first phase and 9 million tons of coal per annum in the second phase of development. Five DCD (Dredge-Conveyor-Dispenser) systems for overburden production and one dredge-conveyor-depot system for coal production are deployed at this Open Pit Mine.

To maintain workable conditions for digging machines, the ground water level must be controlled. The water coming from the wells is transported to the disposal area: Danube River. Part of the drain water pipeline was constructed with Bondstrand pipe. The pipeline is suspended, laid on embankment. Six access chambers are located on the pipeline route for making connections with pipes from the water wells, and 42 water wells are connected to this pipeline.

- Key-Lock joints provide easy and fast assembly
- UV resistance and corrosion resistance of pipes are advantages for pipelines laid on ground surface

Project

Water transport from water wells to disposal area at the Open Pit Mine “Drmno”, “Thermal Power Plants and Open-Pit Mines Kostolac” Ltd - Kostolac, Serbia

Client

EPS – Electric Power Industry of Serbia

Pipe system

Bondstrand 3412 unlined with Key-Lock mechanical joints

Diameter: 24 and 32 inch (600 and 800 mm)

Quantity: 800 meter

Operating conditions

Operating pressure: 10 bar

Design pressure: 12 bar

Test pressure: 18 bar

Operating temperature: Ambient

Design temperature: Ambient

Installation date

September 2009