



Key-Lock® mechanical joint



Ash Slurry Line using Bondstrand® 3412 Key-Lock lined GRE pipe

Ash slurry-hydromixture 1:1 (one part of water: one part of ash) transporting 167 t/h from Power Plant Drmno to disposal Cirikovac. Bondstrand 3412 Key-Lock lined DN 350 mm are layed on the edge of a disposal area. They are also used for outlet pipes to disposal. Pipeline for returning water DN 200 mm from disposal to Power Plant is installed on the ground.

Features and benefits

External corrosion resistance

Bondstrand pipe is not susceptible to corrosion which causes steel pipe to wear through due to corrosion/erosion cycle.

Internal abrasion resistance

Erosion from abrasive ash is minimized due to lack of corrosion in GRE. Steel pipe needs to be replaced frequently.

Advantages

- Abrasion resistant
- UV resistant
- Corrosion resistant
- Light weight material
- Reduction in installation costs and time
- Expected long term service life 30 years
- Maintenance free

Project

Ash slurry hydromixture transport, Kostolac, TE-KO Kostolac - Open Pit Mine Drmno, Serbia

Client

EPS – Electric Power Industry of Serbia

Pipe system

Bondstrand 3412 lined with Key-Lock mechanical joints

Diameter: 8 & 14 inch (200 & 350 mm)

Quantity: 8750 meter

Operating conditions

Operating pressure: 10 bar

Design pressure: 12 bar

Test pressure: 18 bar

Operating temperature: Ambient

Design temperature: Ambient

Installation date

April, 2010