



STORA ENSO Gruvön chose Alvenius TP-pipes, as industrial sewage pipeline, for the new soda recovery boiler.

Alvenius TP-pipes – sewage pipeline within the pulp and paper industry

Case study: STORA ENSO GRUVÖN

The Board of STORA ENSO decided in the summer of 1998 to invest in a new soda recovery boiler at STORA ENSO Paperboard in Grums Sweden. The new soda recovery boiler will replace two old boilers for a total investment of SEK 600-700 million. When the project started, called T5, the planning and installation of new sewage pipeline from the boiler commenced.

The project group decided that the pipeline for industrial sewage water should be in a material superior to stainless steel or concrete pipes. STORA ENSO Gruvön chose Alvenius TP-pipes – thermo-plastic coated steelpipes with quick coupling system.



STORA ENSO Gruvön has a yearly capacity of 520 000 tonnes fluting and craft paper.



Tees are installed along the pipeline as manholes for inspection.

Alvenius TP-pipes for transport of corrosive media



The 330 meter sewage pipeline will at a malfunction be exposed to the aggressive and very corrosive sewage water from the boiler. Alvenius TP-pipes are proven to be suitable for this type of application.

Under normal working conditions there will be water from the boiler entering the pipeline. The water temperature will then be 20-55°C (68-131°F) and normal pH 7-8. Should a malfunction occur in the boiler operation, the pH will drop to 3-5. Alvenius TP-pipes are proven to be suitable for this type of application.

The total length of the pipeline is 330 meters (1080 ft). Along the pipeline, tees will be used as manholes for inspection and a standard end cap, with quick coupling, used for sealing in-between inspection periods.

Responsible for the installation of all the pipes and tubes to and from the new boiler was the construction company NCC.

INSTALLED PRODUCTS

Internal and external thermo-plastic coated steelpipes and fittings.

Pipes	Type Victaulic
Dim	406 mm (16 inch)
Length	5,8 m/pipe (19 ft/pipe)
Bends	90°
Tees	
End caps	
Quick couplings	Victaulic ST77



The TP-pipes were supplied on pallets. Each pipe is packed separately and is therefore protected against transport damage.



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