



TP-PIPES

for strength and durability



An economical and equally good alternative to stainless steel piping

Alvenius light-weight steel pipe system, inside and outside surface thermo-plastic coated, combine the strength of steel and the resistance of thermo-plastic to a wide variety of corrosive media.

The pipes are connected using Alvenius well known quick-couplings or flanges which eliminate expensive welding and makes it possible to quickly exchange single pipe lengths and fittings.

The system is suitable for high-pressure applications ranging from 360 psi to 1000 psi (25-70 bar).

The characteristics of thermo-plastic

Extremely good adhesion - no risk of scaling or cracking.

Elongation at break, 800 %.

Good resistance to chemicals, especially acids and alkalies.

Excellent weather resistant properties.

Good corrosion protecting characteristics.

Dielectric resistance.

Safe working temperature continuous in air +150°F/65°C.

Difficult to ignite building material.



Stockholm Subway, chose the Alvenius thermo-plastic coated pipe system for fire hydrant pipes.

Method of coating

The untreated steel surfaces are sand blasted to a coatable finish. The pipes are heated to the temperature for coating.

The pipes are coated using fluidised bed or electrostatic coating methods.

The thickness of film applied is 20-30 mil/500-700 microns.



Stora Enso, Gruvön, Sweden chose Alvenius TP-pipes, as industrial sewage pipeline, for the new soda recovery boiler.



The city of Lidingö, Sweden, uses the Alvenius thermo-plastic coated pipe system for distribution of potable water. The pipe system complies with the requirements of the customer, regarding lifetime, flexibility and the water quality.

Pepsi-Cola Budapest. A first-class soft-drink requires pure water of highest quality. The pipe surface must under no circumstances affect the quality of the water. In order to maintain a high and even quality of the final product, Pepsi-Cola has chosen Alvenius thermo-plastic coated pipe system for the most critical section of the plant, i.e. the pipeline between the purification and the mixers.



Alvenius thermo-plastic coated pipe system at the heap leaching plant at the Bulghah gold mine in Saudi Arabia.

Range of applications

Alvenius thermo-plastic coated pipe system will be found in various types of industry, where primarily stainless steel has been the traditional material for pipes that are subjected to extreme exposure.

For example:

- Mining and mineral processing
- Chemical industry
- Municipal water industry
- Paper and cellulose industries
- Food stuffs industry
- Off-shore
- Foundation tubes

The pipes can be used as process and cooling water pipes, effluent and drainage pipes, high pressure pipes, fire fighting pipes. Special dimensions and designs available on request.

TESTS AND CERTIFICATES

General tests

Salt spray testing to ASTM B-117/85.

Accelerated weathering testing to ASTM G53-88.

Electrical resistance to BS 476: 5 (1979), 6 (1989), 7 (1987).

Fire tests and fire fume certificates

United Kingdom: BS476 Pt.5-7

NES 713

USA: NFPA 258

France: NF C20-453-454

NF P 92-501

Water and food contact approvals

EU: Directive 90/128/eec

United Kingdom: WRC BS 6920

DWI

Germany: EU rules 89/109/EWG and

BGA

Hong Kong: Office of the water authority

- potable water

Belgium: NBN S-29-001

France: Directive DGS and standard

AFNOR XP P 41-250-1/2/3

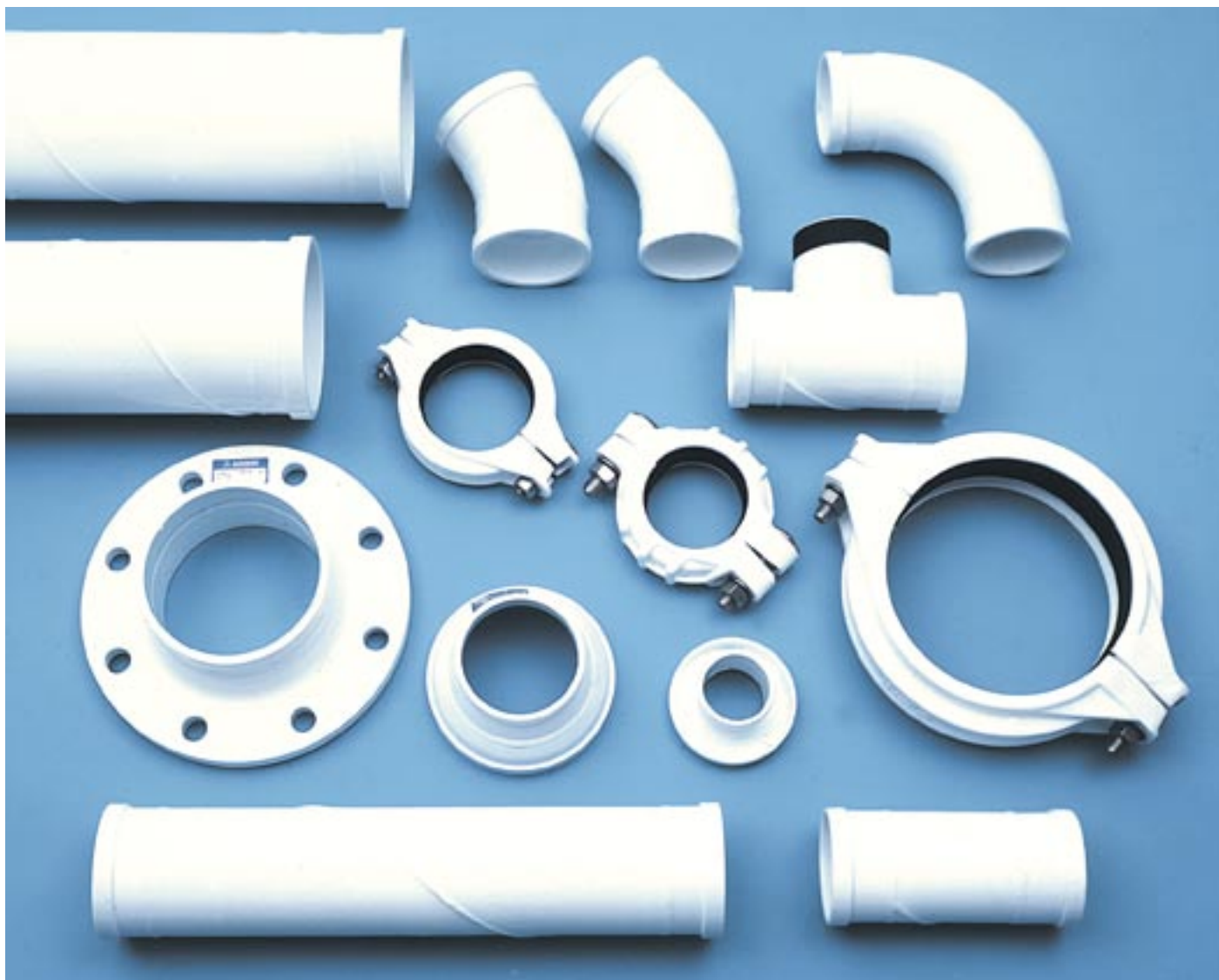


Alvenius PED approved

The Alvenius standard product range is approved according to PED 97/23/EC.

The PED approval has been integrated with the certified Quality Management System.

Complete range of products Ø 89-610 mm



ALVENIUS®

AB Alvenius Industrier
Box 550, SE-631 07 Eskilstuna, Sweden
Phone: +46 16-166500, Fax: +46 16-122634
E-mail: info@alvenius.se
Web Site: www.alvenius.se



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