



ABS Pipe Systems

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ABS

ABS (Acrylonitrile - Butadiene - Styrene) is a modern thermoplastic polymer found in everyday applications such as construction site safety helmets.

Piping Systems manufactured from this polymer display outstanding properties and so makes ABS pipes the first choice for many of the most demanding piping applications. ABS pipe and fittings are designed and manufactured by Eurapipe to suit extreme climatic conditions.

Both the **DURAFLO** and the **FREEFLO** piping systems are manufactured from ABS polymer.

ENVIRONMENTAL ADVANTAGE

The use of ABS contributes positively to the environment as it takes approximately one sixth of the energy to manufacture compared to metal products. This has direct savings in green house gas emissions.

Additionally ABS is lead and chlorine free and can be readily recycled.



IMPACT STRENGTH

The butadiene constituent in ABS affords unrivalled resistance to impact. This means that **DURAFLO** and **FREEFLO** ABS Piping Systems may be used in more critical applications where other types of plastics could not be considered.

CHEMICAL RESISTANCE

DURAFLO and **FREEFLO** ABS is unaffected by both internal and external chemical attack by a wide range of acids, alkalis, ground water salts and other environmental factors.

ABRASION RESISTANCE

DURAFLO and **FREEFLO** ABS offers outstanding resistance to abrasion and erosion from aggressive slurries, which can rapidly damage steel or other traditional pipe materials.

WEATHER RESISTANCE

DURAFLO and **FREEFLO** ABS is one of the most weather resistant polymers available today. Successful field tests have been completed on piping systems having been exposed to weathering for over 30 years.



NON-TOXIC/TAINT FREE

The ABS formulation contains no harmful metallic stabilizers and it has been widely used for many years in piping systems for high purity water, medical preparations, food products and soft drinks.

DURAFLO and **FREEFLO** ABS systems are ideal for potable cold water. They conform to World Health Organisation, E.E.C. and AS 4020 requirements for potable water reticulation and distribution.



EXCEPTIONALLY SMOOTH BORE

DURAFLO and **FREEFLO** ABS does not suffer from internal corrosion and provides a smooth bore for the life of the piping system.

The smooth bore does not support the formation of scale and slime as do cement based lined products.

SIZE AND PRESSURE RANGE

DURAFLO and **FREEFLO** ABS piping systems are manufactured in sizes ranging from 15mm to 900mm. Standard pressure ratings at 20°C start at 450 KPa and go to 2000 KPa (PN4.5 to PN 20). Refer to EURAPIPE for further details.



TEMPERATURE RANGE

A great advantage of **DURAFLO** and **FREEFLO** ABS over other plastic systems is its ability to perform over a wide temperature range from -30°C to +70°C. This makes **DURAFLO** and **FREEFLO** ABS very versatile and capable of handling a wide variety of fluids from refrigerants to moderately hot corrosive liquids

LIGHT WEIGHT

ABS is one-sixth the weight of steel systems, making **DURAFLO** and **FREEFLO** easy to handle and install. This reduces the cost of installation, handling and transport .

JOINING SYSTEMS

Cold Solvent Weld Joining

The **DURAFLO** size range also utilizes the proven traditional method of joining ABS pipes, cold solvent cement welding, which provides an homogenous bond between pipes and fittings (SWJ).

Elastomeric Seal Joining



Both the **FREEFLO** and **DURAFLO** size ranges utilise an elastomeric seal joining systems (Rubber Ring Joint, or RRJ).

Other Joint Systems

Other joint systems are also available as standard for both **DURAFLO** and **FREEFLO** systems and are detailed further in this catalogue.