



ABS Duraflo Pipe Systems

Overview

ABS Duraflo pipe systems have a unique blend of properties that are highly suited to condenser and chilled water application. As a result Duraflo ABS has been successfully installed in many of Australia's prime commercial and institutional developments.

ABS is a high performance thermoplastic which has been used in piping applications since the 1950's and in Australia since the 1970's.

Duraflo ABS Pipe Systems have the following proven capabilities:

- High Impact Strength
- Corrosion Free
- Low Thermal Conductivity
- Low Embodied Energy
- Lightweight
- Smooth Bore
- 50 Year Design Life
- Quick Installation



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Design

The design of HVAC system requires the selection of materials that will perform through out the life of the building. The corrosion free nature of ABS means the pipe system performance will not alter from day one. Rusting pipes (inside and outside) are a think of the past. Flow rates can be assumed to stay the same.

Installation

The solvent weld jointing process is quick and easy to complete and requires a lower set of skills to those required for more traditional materials. Combine the speed of welding with the light weight of the material and need for less equipment and special skills and the installer will achieve significant savings in time and costs.



Operations & Maintenance

From the facility management perspective ABS will help keep operating costs low. Pumping performance and flows through the smooth bore pipes will be maintained. Pipe work will not need to be painted, even external pipe work can be left in its natural state – ABS has high UV resilience and maintains high impact.

Prefabrication

Many contractors have taken advantage of the light weight of ABS which allows the prefabrication of flanged pipe spools and headers in the workshop and relocation to plant rooms and roof top cooling towers. The adoption of BIM in the industry will aid this means of delivery. Accurate drawings allowing more off site prefabrication and minimal on site closure works.



Pre-insulation

ABS is an ideal pipe system for chilled water applications it has a very low coefficient of conductivity. This was key to the design of The KFLO range of preinsulated ABS. KFLO incorporates the advantages of Duraflo ABS with a high performance pre insulation jacket and a unique no gaps welding design (requires no gap kits).



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