September 2008

Wavin PPR

System Data Sheet

System description

Wavin PPR is a hot and cold water supply system suitable for sanitary and potable water applications and floor heating systems. The pipes and injection moulded fittings are made of Polypropylene Random (PPR) type 3. They are jointed by fusion welding, ensuring a homogeneous, all plastic system.

Wavin offers various PPR systems like Wavin Ekoplastik, Wavin BOR^{plus} and Wavin Tigris. These systems vary in product range and colour, but all carry the same features and benefits.

System benefits

- Complete plastic system
  Jointed by fusion welding, ensuring a homogeneous, all plastic system.
- Suitable for carrying drinking water
  In full compliance with the international standards for the use of plastic material for carrying drinking water.
- Resistant to corrosion and abrasion
  Allowing high flow speeds of the transported liquids.
- High chemical resistance
- Reduced thermal losses
  Low thermal conductivity coefficient.
- Low noise level
  The material's elasticity and high insulation capacity mean a considerable sound reduction in the installation, including water hammer effects.
- Easy to handle, easy to install
  The low weight of the system makes it ideal not only for traditional installations, but also for modular installations and prefab walls.
- Smooth internal surface
  Limestone or other deposits cannot form and head loss is reduced to a minimum.

Documentation

The following documentation on Wavin PPR system are available:

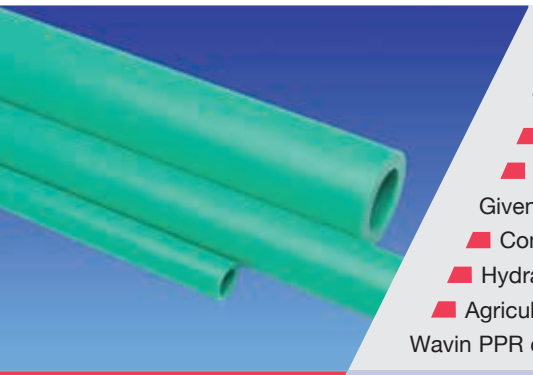
- Wavin Ekoplastik PPR Product Guide (2008)
- Wavin Ekoplastik PPR Installation Manual (2008)
- Wavin BOR^{plus} Product Guide (2005)

FUSION WELDING SYSTEM FOR PLUMBING AND HEATING

Intelligent Solutions for Plumbing and Heating projects

Wavin PPR

Fusion Welding System for Plumbing And Heating



Applications

Wavin PPR systems are designed for sanitary and heating applications, such as:

- Water systems (hot and cold drinking water)
- Floor heating systems

Given its good chemical resistance, the system can also be used for the following applications:

- Compressed air systems (airconditioning)
- Hydraulic works in residential, industrial and public projects
- Agriculture and horticulture (watering systems for greenhouses and gardens).

Wavin PPR can be used both in assembly of new installations or for repairs of existing systems.

Range

Wavin PPR offers complete ranges of pipes and fittings in the dimensions 16, 20, 25, 32, 40, 50, 63, 75, 90 and 110mm. Pipes are available in PN10, PN16 and PN20 pressure classes. All fittings are manufactured in the highest PN20 pressure range.

Category	Product	Dimensions (mm)
Pipes	■ Coil	16 - 110
	■ Straight length	16 - 110
	■ Stabipipe with intermediate aluminium layer to reduce thermal expansion	16 - 110
Fittings	■ All-plastic fittings	16 - 110
	■ Combined fittings with brass, nickel-coated threads for threaded joints	
	■ Combined fittings for flanged joints	
Valves	■ Ball valves	20 - 63
	■ Straight valves	
Reducers	■ Compensation pipe	16 - 40
	■ Crossover pipe	16 - 40
	■ Tools (welding and cutting devices)	

Electrofusion options are available for connections where access is difficult

Product specifications

Raw material
Type 3 Polypropylene (PPR)

Jointing method
Fusion welding

Density (g/cm^3)
0.9

Yield point in tension (MPa)
25 - 26

Elongation at max. yield point in tension (%)
10 - 15

E-bend modulus (N / mm^2)
850 - 900

Thermal expansion coefficient (mm / m K)
Regular pipes : 0.12
Stabipipe : 0.05

Thermal conductivity coefficient (W / m K)
0.24

Quality requirements

Wavin PPR system components are produced in compliance with requirements of the EN 15874 standard. The company meets the quality requirements according to ISO 9001. Various certificates of conformity with the European norm EN 15874 and other local standards are available.

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Above Ground Projects