



(PP) Polypropylene pipes and fittings with o-ring, for sewage
(PP) Polypropylene rohre und fittings mit o-ring für Hausabfluss



Pipes

ATLAS-PLUS pipes are manufactured at 40, 50, 75, 100, 110, 125 and 160 mm external dimensions and 150, 250, 500, 750, 1000, 1500, 2000 and 3000 mm lengths, covering all applications. All pipes are also available in single and double coupling type. **Also, Interplast, as an innovative manufacturer in the sector of plumbing systems, manufactures polypropylene sewage pipes and fittings in a 100mm size, with the purpose of satisfying a relevant request by technicians, installers and customers.**

Certifications

MIRTEC Greece

Guarantee

10 years covered by GENERALLI insurance company, to a sum of up to 3,000,000.

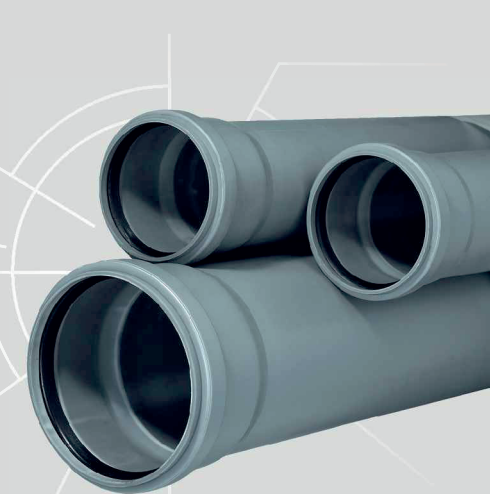
Fittings

ATLAS-PLUS fittings include a wide range of bends (15°, 30°, 45°, 67°, 80°, 87°), simple half-'T' (45°, 67°-30°, 87°-30'), contracting half-'T' (45°, 67°-30', 87°-30'), Trident (Ø) (67°-30'), contracting Ø (67°-30'), flow control fittings, simple couplings, couplings with terminal, reducing sleeves, corner bathtub connection couplings with brass nut, plugs, at 40, 50, 75, 100, 125 and 160 mm.

ATLAS-PLUS Rubber Rings

The excellent watertightness of the ATLAS-PLUS sewage pipe and fitting network is achieved by means of the top quality specially designed elastic rings (their specifications are in compliance with German standard DIN 4060 and European standard EN 681-I-hardness 60 Shore A), which are installed inside the sockets during the production of the pipes.

Their manufacturing material is a special type elastomer of German manufacture, with a practically limitless lifespan, even in a corrosive high temperature environment, without losing its initial elasticity even after 50 years of non-stop operation of the installation at high temperatures. Interplast provides installers with a special lubricant to be used on the elastic when the pipes are connected.



Properties - Advantages Atlas-Plus

The inner and outer surface of the Atlas-Plus pipes and fittings is smooth and sleek, and at the same time hard enough to prevent scratches; they are characterized by their increased rigidity and great tolerance to even extremely low temperatures. In more detail, the advantages that make the Aqua-Plus pipes and fittings the ideal solution for sewage systems are the following:

- Perfect water tightness due to connections of individual sections with sockets incorporated with high quality elastic watertightening rings.
- **Easy and simple installation** in extremely short time.
- **Excellent chemical resistance** to all corrosive wastewater circulating in sewages, even at very high temperatures (hot drainage).
- **Satisfactory reduction of noise levels** and limited transmission which results in the noise-free operation of the installation.
- **Resistance to any type of external mechanical stress, scuffmarks, impacts**, even at very low temperatures.
- **Resistance to breaking and cracking**, even in cases of earthquakes and/or micro-settlement of buildings.
- **High impact strength**, therefore resilience at storage, transportation and use in the installation.
- **Safety in case of fire due to material fire resistance.** The flame is not maintained and it does not spread. **In line with fire safety regulation DIN 4102 B1.**
- **Absorption of thermal linear expansions** from the sockets with the elastic rings.
- **Resistance to ageing** from solar radiation for externally installed pipes and fittings.
- **Packaging of pipes and fittings** in special cases, which prevent the creation of oval-shape phenomena under the pressure of the weight of the super incumbent pipes.
- **Adhesive or other watertighting agents are not required** at the connections.
- **Guaranteed lifespan for pipes, fittings and elastic rings** of over 50 years of non-stop operation for wastewater up to 90°C.
- **Full compliance with the specifications** of European standard EN 1451 and German standards DIN 19560-10 and DIN 4102-1.

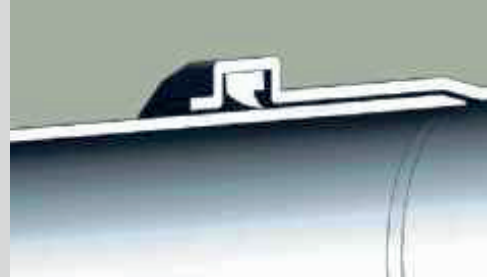




Atlas-Plus Socket Design

The special design of the pipe socket finish and the fittings of the Atlas-Plus system, in combination with the special design of the elastic rings, **offer total watertightness of the sewage system during the consecutive contractions-expansions, even at inversed flow conditions.**

The square finish of the Atlas-Plus socket "secures" the elastic ring and does not allow its extraction from the socket and simultaneously allows the easy installation of the pipe.



Polypropylene and the Environment

Polypropylene is considered an ecological and is recommended by all relevant organizations as a "green" structural element. According to a European Union ruling, PVC creates problems when it burns (hydrochloric acid vapours are released). Furthermore the Parliament finds necessary the establishment of community legislation for **banning cadmium and lead-based stabilizers, which are toxic additives.** With regard to **ophthalmic compounds, frequently used as softeners, there is suspicion that they imitate hormones and cause fertility problems.**

According to the European Parliament, **glues** used for the connection of PVC pipes usually contain THF volatile aromatic solvents. **These solvents are used to break down the PVC pipes in order to achieve welding, and are ranked amongst the most flammable and irritant chemical products, which means that in small quantities they irritate eyes, skin, throat, cause nausea, vertigo and headache. At large quantities they affect the nervous system and may cause gene anomalies.**

Even though these solvents are quite powerful, **they cannot break down polypropylene (PP),** which proves its significantly **higher chemical strength compared to PVC.**

Finally, according to the European Parliament, **polypropylene (PP) on the other hand is considered a completely non-toxic material, fully recyclable and when it burns it produces only carbon dioxide and vapours.**

