



Application scope

Soundproof system for wastewater discharge compliant with EN 1451-1 in Class BD (inside the building and outside within 1 meter of the building perimeter – underground according to EN 1401, valid for diameters of 75, 90, 110, 125, and 160 mm), suitable for systems in residential, industrial, and commercial buildings, as well as public and hospitality facilities like hospitals, nursing homes, hotels, schools and places of worship. The BLUSILENT system is also suitable for creating ventilation and aeration systems, extraction and dust suction.

Design Instructions

The BLUSILENT water discharge system can be sized according to the requirements of the reference design standard, UNI EN 12056-2. According to these requirements, for venting the drainage system, BLUSILENT system pipes and fittings can be used or, alternatively, BAMVENT air admission valves.

Installation method

The system is simple and quick to install thanks to the push-fit socket, secured with an elastomeric gasket. The socket connection ensures enough space for any expansions of the system while providing a reliable and long-lasting seal. The BLUSILENT polypropylene system is compatible with connections to other plastic materials like PP/PE-HD/PVC.

Accessories

For the BLUSILENT polypropylene system there is a whole range of accessories and equipment useful for installing discharge systems, including:

- Air admission valves for the ventilation of the discharge system
- Non-return valves
- Firestop systems (sleeves – strips – bags)
- Triple-layer soundproofing panels and single-layer decoupling sheaths
- Clamps for securing and anchoring pipes.

Special conditions

The unique composition of the BLUSILENT system gives it durability and strength even in tough environments (freezing cold or extreme heat). Plus, if it gets hit or accidentally punctured, the system can be quickly repaired with heat welding done by an expert using the right equipment.

Features and Performance

- Layered pipes in PP-C/MV/PP-C and fittings in PP-C/MV. The materials that make up the BLUSILENT system are fully recyclable and made without halogens, cadmium, or heavy metals.
- Color: RAL 5023 blue
- The temperature of the fluid discharged inside the system can reach up to 98°C for a short period, while for long periods it can reach 95°C
- Ring stiffness of 4.0 kN/m² (SN4 according to EN 13476-2 for DN 75, 90, 110, 125, and 160 mm)
- Linear expansion coefficient of 0.09 mm/m·K
- Elastic modulus >2400-3100 MPa (according to ISO 178)
- Vacuum tightness not exceeding 800 mbar
- Fire behavior Class B2 (according to DIN 4102)
- Noise level: <10 dB(A) in the Basement with 2 and 4 l/s on a DN 110 mm pipe, secured with 2 collars per floor BISMAT1000 or double BLU-CLAMP (Lab test according to DIN4109 / EN14366 standards)
- Diameters of 32-40-50-75-90-110-125-160 mm
- Pipes in 150, 250, 500, 1000, 1500, 2000 and 3000 cm length
- Density: 1,2 g/cm³ (in accordance with ISO 1183)
- Weight Kg. 1,480 of pipe dn 110 mm. 1 socket and 1 mt length
- For the use of Polypropylene in the presence of chemicals contained in the discharged fluid, carefully follow what is prescribed in the relevant reference TABLE
- 10-year warranty against manufacturing defects (art. 1490 of the Civil Code)

