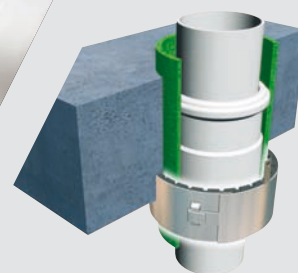


Wavin AS

System Data Sheet



System description

Sound is an important factor in designing the interior of buildings. Reducing sound in a building's soil and waste system is a challenge that the Wavin AS system can easily deal with. Wavin AS is the complete low-noise soil and waste system made of Astolan®. Astolan has a special molecular structure and is especially developed to dampen sound. With Wavin AS the noise levels inside buildings can be reduced to an absolute minimum. Wavin AS is the plastic alternative to cast iron, achieving improved sound reduction performance with a lower weight, and easier to install solution.

The combination of Astolan material and Wavin know-how utilises material density, wall thickness and system design to make the Wavin AS system unique and best in class.

System benefits

- **Best in class in low-noise performance**
Suitable even for the most demanding applications.
- **Complete system**
Design with confidence and no compromise in performance.

- **The solution in fire protection**
Meets demanding regulations.
- **Easy installation**
Reduced weight compared to cast iron, easy to handle.
- **Secure connections**
Proven and reliable push-fit jointing system.
- **Corrosion and chemical resistance**
Robust solution for all waste water applications in residential and commercial buildings, including hot and/or greasy waste water.
- **Smooth interior, free of incrustations**
Eliminates flow restrictions and ensures optimum drainage performance.

Documentation

The following documentation on the Wavin AS system is also available:

- Wavin AS Product and Technical Guide (2008)

LOW-NOISE SOIL & WASTE SYSTEM



Applications

Wavin AS is used wherever sound protection according to DIN 4109 is required, e.g. in hospitals, hotels, old-age homes, sanatoriums, office buildings, libraries, restaurants or multi-family apartments. Although there are no sound protection specifications for single-family dwellings, more and more people have started attaching importance to silence and comfort. The system is designed for professional wastewater installations in, primarily multiple-storey buildings and can be installed in the following fields of application: single waste or drain pipes, collector pipes, stack pipes, ventilation pipes, rain stack pipes and underground pipes up to the inspection chamber.

Range

The Wavin AS system consists of AS pipes and fittings and is available from DN 56 to 200mm.

Category	Product	DN (mm)
Pipes	■ plain ended	56 - 200
	■ socketed short length	
Bends	■ Bends 15° - 87°	56 - 200
	■ Air circulation bend 135°	100
	■ Long bend 45°	100
	■ Trap conversion bend	56/40
Branches	■ Branches* 45°, 67°, 87°	32 - 160
	■ Double branches* 87°	90 - 100
	■ Corner branches* 87°	90 - 100
	■ Parallel branch 87°	100
Sockets	■ Double socketed connector	56 - 200
	■ Compensator socket	56 - 150
	■ Long socket	100
Reducers	■ Reducers	56/40 - 200/150
Fire protection collars	■ Type NE/Compact ■ Type Unimo	56 - 150
Accessories	■ Access pipe	56 - 150
	■ Connections to other plastic systems (PP, PVC-U, PE)	56 - 200
	■ Compression couplers (connection from cast iron to Wavin AS)	56 - 200
	■ Floor trap	100/70/56

* Swept types are available.

Quality requirements

Rigorous testing and quality control throughout the production process ensures that Wavin AS pipes and fittings together build a highly reliable and effective low noise system. They have the RAL quality mark of the German Community of Plastic Pipes (GKR), Bonn. They have a general building inspection approval with the approval number Z.-42.1-228 of the German Institute for Building (DiBt).

Product specifications

Raw material

Astolan® (Polypropylene, mineral reinforced)

Density g/cm³

1,9 for pipes and fittings
(DIN 53479)

Wall thickness

DN (mm)	Wall thickness (mm)
56	4.0
70	4.5
90	4.5
100	5.3
125	5.3
150	5.3
200	6.2

Mass per unit area

DN (mm)	Mass per unit area kg/m ²
56	7.60
70	8.55
90	8.55
100	10.07
125	10.07
150	10.07
200	11.78

Joining method

Push-fit; socketed fittings and compensator sockets for lateral expansion.

Hot water resistance

95°C short term loading
90°C long term loading
(DIN 1986, DIN 12056)

Chemical resistance

pH 2 - 12

Linear expansion

~ 0.09 mm/mK

Fire classification

DIN 4102-B2

Quality marking

Wavin AS, nominal diameter, production year, RAL quality mark, approval, material, control mark, fire classification.



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