

Brymec VOX dB12 Acoustic Drainage System Technical Specification



System Overview

VOX is suited for use above ground in commercial, residential and industrial applications, installed within the building structure as a gravity drainage system for the disposal of foul water, wastewater and rainwater.

VOX is purpose designed for acoustic optimisation and is manufactured from high grade Polypropylene Copolymer with mineral fillers which ensure acoustic and strength benefits.

The high-performance VOX Pipes are manufactured using the latest multilayer pipe technology to construct 3 co-extruded layers. This provides optimum physical performance and includes a special white smooth-flow internal surface for excellent flow characteristics and easy inspection. The system is connected with unique noise optimised Double Lip Seal ring seal joint fittings.

Acoustic drainage systems offer huge benefits in acoustic performance due to the reduction of noise from flow of waste inside the system. This reduction in airborne and structure borne noise results in increased comfort and occupier enjoyment which greatly enhances the quality and useability of noise sensitive environments.

The inherent strength and durability of the material means that the system will not deform under load, and with a low coefficient of expansion and the flexible ring seal jointing method there is no need for special expansion jointing.

Due to the superior acoustic performance and ease of installation and maintenance, VOX acoustic drainage is ideal for use in projects such as hotels, multi-occupancy residential, high-quality residences, educational and scientific buildings.

Technical Information

Brymec VOX Acoustic Drainage							
DN (mm)	32	40	50	75	110	160	200
Nominal OD (mm)	32	40	50	75	110	160	200
Maximum OD (mm)	32.3	40.3	50.3	75.4	100.4	160.5	200.6
Nominal Wall Thickness (mm)	1.8	1.8	1.8	2.3	3.4	4.9	6.2
Nominal Internal Diam.(mm)	28.7	36.7	46.7	70.8	93.6	150.7	188.2
Water Volume (l/m)	0.65	1.06	1.71	3.94	6.88	17.84	27.82
Structure-born Sound Characteristic	12dB at 2.0 l/s with Optimised clamps - EN14366 Sound Insulation Level 3						
Standard Operating Pressures	0.5 Bar - EN 1451-1						
Operating Pressure (Special)	Negative -0.89 Bar to 1.5 Bar with special details						
Operating Temperature	5 °C to 70 °C Continuous						
Maximum Temperature	95°C Intermittent						
Thermal Expansion Coefficient	0.16 mm/m°C						
Material	Polypropylene Copolymer with Mineral Fillers						
Pipe Construction	Co-extruded Multilayer						
Exterior Finish	Black Polypropylene Copolymer						
Internal Surface Finish	White Smooth Flow Polypropylene Copolymer						
Fitting Connections	Unique Double Lip Seal connections						
Reaction to Fire	D - s3, d0						
Pipe Identification Markings	Manufacturer/Product Name - material PP Diameter - wall thickness - Manufacturing standard - Country of origin - date of manufacture						
Manufacturing Standard	EN 1451-1						



Application Information

	Domestic Low temperature Wastewater	Domestic High Temperature Wastewater	Rainwater	Waste System Ventilation	Aggressive fluid drainage	Underground Usage	Negative Pressure
EN 1451-1	Yes	Yes	Yes	Yes	Refer to Chemical Compatibility/ ISO TR/10358:2021	Limitations apply - Contact Brymec Technical	Limitations apply - Contact Brymec Technical
Application Area	BD	B. Above ground internally or outside buildings when fixed to walls D. Underground when within 1m from building					

Acoustic Performance

Due to the inherent properties of VOX Acoustic Drainage System, both airborne and structure borne transmitted sound is extremely low. For best performance use brackets with acoustic insulation linings for each mounting point. The system has been tested to BS EN 14366 Noise from Wastewater Installations.



Warranty

Brymec VOX Acoustic Drainage is covered by a comprehensive 10 year warranty. Please refer to Brymec for full details.

Installation and Tooling

For manufacturer's warranty to apply, all products must be installed to Brymec's latest installation instructions.



Manufacturer details

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Brymec reserves the right to make changes, without prior notification, to the specification of our VOX Acoustic Drainage System in line with our policy of continuous improvement and development.

