



K NEHRUMANI ELECTRICALS

GERMAN TECHNOLOGY
MADE IN INDIA

The Complete Low Noise System

<10DB @ 2lps

**HIGH DENSITY-PP
LOW NOISE
DRAINAGE SYSTEM**



THE COMPLETE LOW NOISE DRAINAGE SYSTEM



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INTRODUCTION

Astral Silencio low noise system is an innovative product made of three layer mineral-reinforced polypropylene. This base material provides excellent mechanical and acoustic properties to Astral Silencio. Made with a high molecular structure, Astral Silencio enables absorption of airborne sound and structure borne sound hence limiting the sound energy to spread over the pipe walls.

SOUND INSULATION BASICS IN PIPES

The unique low-noise Astral Silencio system is a top quality product made of mineral-reinforced polypropylene. This base material provides low noise with excellent mechanical and acoustic properties. Thus it has those ideal requirements to be used in a pioneering way in any area of building construction (including houses, blocks of flats, industrial buildings, hospitals and hotels).

SOUND DEVELOPMENT IN THE WASTE WATER PIPE

Impact and flow noises are responsible for airborne and structure-borne sounds developing at piping walls. Air borne sound develop due to the impacting of waste water, which can reach relatively high speeds, induces noise at many points such as bends, pipe branches and collecting pipes. The biggest problem with building's plumbing drainage is with the transfer of structure-borne sound at the point of pipe fixing and where the pipes are installed in walls and ceilings.

APPLICATIONS

Hospitals, Hotels, Office Buildings, Residential Projects, Educational Institutes, Shopping Malls etc...

FEATURES

- | | | |
|-------------------------------|------------------------|-----------------------------|
| • Noise Insulating Properties | • Easy Installation | Special Ring |
| • Resistance to hot water | • Smooth Inner Surface | • External Ribs on Fittings |
| • Chemical resistance | • Door Type Fittings | • Depth Gauge on Fittings |
| • Impact resistance | • Push-fit Socket with | • Swept Angle on Fittings |

PRODUCT RANGE

Silencio socketed pipes are available in DN 4.0 (40), 5.0 (50), 6.3 (63), 7.5 (75), 11.0 (110), 12.5 (125), 16.0 (160) and DN 20.0 (200) cm (mm) sizes with wide choice of fittings and accessories.

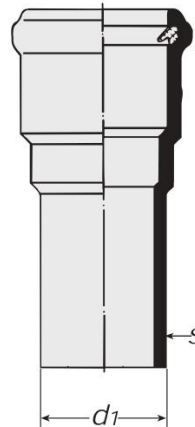


TECHNICAL DATA

Astral Silencio is a complete low noise, system made of mineral-reinforced polypropylene as per DIN EN 12056 and DIN1986-100 having high molecular density of 1.9 gm/cm³. It is having high resistance to hot water and chemicals.

Color - Light Grey

Property	Unit	Value
Density	g/cm ³	1.9
Elongation@ Break	%	30
Tensile Strength	N/mm ²	16.8
Modulus of Elasticity	N/mm ²	3800
Coefficient of		
Linear Expansion	mm/mK	0.09
Fire Resistance	--	DIN 4102: B2
		EN 13501-1:D-s2, d0
Life Expectancy	More than 50 years	



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Outside Diameter DN d1(cm)	4.0	5.0	6.3	7.5	11.0	12.5	16.0	20.0
Outside Diameter DN d1(mm)	40	50	63	75	110	125	160	200
Minimum Wall Thickness s (mm)	2.2	4.0	4.0	4.5	5.3	5.3	5.3	6.2



 **ASTRAL[®] PIPES**



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