


**GERMAN TECHNOLOGY**  
NOW IN INDIA

**ASTRAL**  
*PIPES*

**FLUSH SHHH!!!**  
DRAINAGE ON SILENT MODE



**ASTRAL**  
**SILENCIO**   
High Density Low Noise System

The Complete Low Noise system **<10DB @ 2lps**

## INTRODUCTION

Silence is an important essential of human living. Only seldom we experience true silence in our surroundings. It is precisely this pleasant quietness which distinguishes the ASTRAL low noise discharge system from others.

## Sound insulation Basics in pipes

### Just trust what you hear

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).

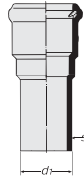
## Sound development in the waste water pipe

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 facing building engineering is with the transfer of structure-borne sound at the point of pipe fixing and where the pipes are installed in walls and ceilings.

## TECHNICAL FEATURES

### Material

Astral Silencio is a complete low noise, system made of mineral-reinforced polypropylene as per DIN EN 12056 and DIN 1986 - 100 having high molecular density of 1.9 gm/cm<sup>3</sup>. It is having high resistance to hot water and chemicals.



### Color - Light Grey

Property	Unit	Value
Density	g/cm <sup>3</sup>	1.9
Elongation@ Break	%	30
Tensile Strength	N/mm <sup>2</sup>	16.8
Modulus of Elasticity	N/mm <sup>2</sup>	3800
Coefficient of Linear Expansion	mm/mK	0.09
Fire Resistance		DIN 4102, B1
Life Expectancy		More than 50 years



## ADVANTAGES

**Noise Insulating Properties:** Silencio is the optional solution where noise insulation is required. Silencio has a high specific weight and special molecular structure, which enables absorption of airborne as well as structure borne sound. Sound energy cannot spread over the pipe wall.

## Resistance to hot water liquid

Astral Silencio system is resistant to hot water and fulfill the requirements of DIN 1986 which means 95°C short term and 90°C long term temperature loading.

## Chemical resistance

Astral Silencio system can transport waste liquids with pH values between 2 and 12. It has a high resistance to the most common chemical substances.

## Impact resistance

Astral Silencio products show high impact resistance at extremely harsh temperatures as low as - 20° c.

## Easy Installation

Without the use of any special tools and the push-fit jointing method installation of Astral Silencio system is easy, time and cost saving.

Range: Silencio socketed pipes are available in DN 40, 50, 63, 75, 110, 125, 160 mm and DN 200 mm sizes with wide choice of fittings and accessories.

Outside Diameter DN	Mean Outside Diameter		Wall Thickness (mm)
	Min.	Max.	
40	40.0	40.3	1.9
50	50.0	50.3	4.0
63	63.0	63.3	4.0
75	75.0	75.3	4.5
110	110.0	110.4	5.3
125	125.0	125.4	5.3
160	160.0	160.5	5.3
200	200.0	200.6	6.2

## AREA OF APPLICATIONS

- Single waste or drain pipes
- Collector pipes
- Stack pipes
- Ventilation pipes
- Rain stack pipes
- Below ground pipes up to inspection chamber / manhole



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