



# SILENTA PREMIUM

High quality sound insulating  
multi-layer pipe system



LOW NOISE  
13 decibel



HIGH FLOWRATE



HIGH TEMPERATURE  
RATING



CHEMICAL  
RESISTANT



DURABILITY

CHARACTERISTICS AND ADVANTAGES

# GF HAKAN SILENTA PREMIUM SOUND PROOF PIPING SYSTEM

Silenta Premium is a sound-insulating 3-layered sewer pipe system made of Silenta PP which is specially formulated and reinforced for non-pressurized domestic drainage in accordance with systems standards of DIN 4109, DIN 4102.

Silenta Premium reaches a sound-intensity level of 13dB at 4L/s flow rate by the officially recognized Fraunhofer Institute, Germany.

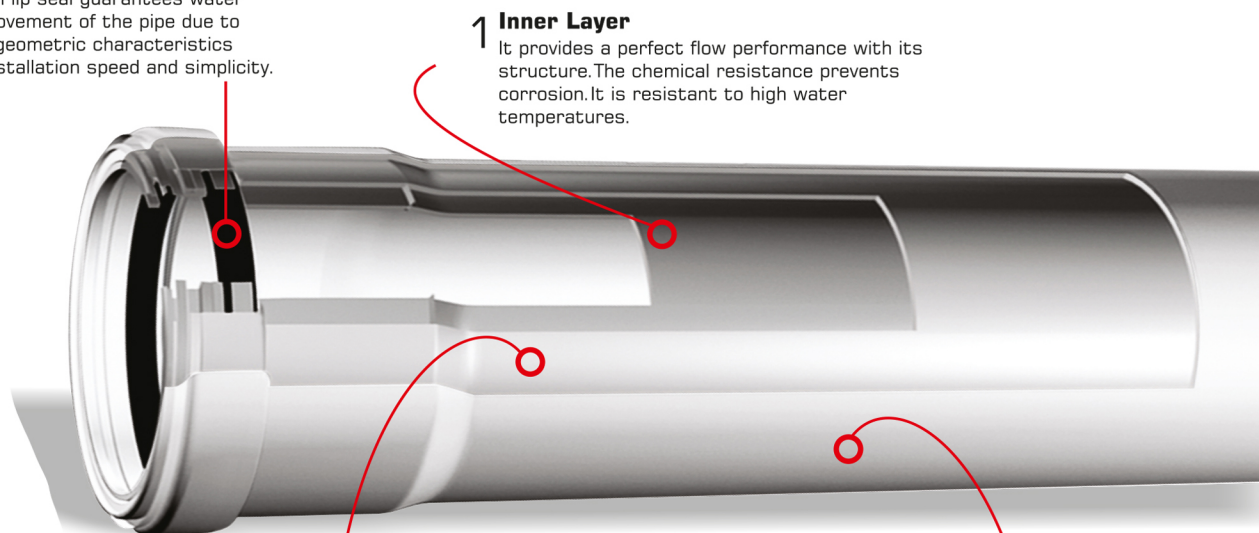
## ANTI-SHRINK SYSTEM

“Anti-Shrink System” is a manufacturing process of SILENTA PREMIUM that prevents any kind of deformation in case of ambient temperature or heat variations. If this system is not applied during the manufacturing process, the socket may be subject to shape deformations. SILENTA Anti-Shrink System, avoids problems such as changes in shape, fluid flow obstacles, complicated assembly and leakages.

## 3 LAYERED PIPE TECHNOLOGY

### Special Seal System

The push-fit socket with lip seal guarantees water tightness and allows movement of the pipe due to thermal expansion. The geometric characteristics of the socket ensure installation speed and simplicity.



### 2 Middle Layer

Thanks to its high molecular structure and special formula, the sound waves are absorbed and prevented.

### 1 Inner Layer

It provides a perfect flow performance with its structure. The chemical resistance prevents corrosion. It is resistant to high water temperatures.

### 3 Outer Layer

It is resistant to high temperatures and strokes.

## ADVANTAGES OF SILENTA PREMIUM

- Silenta Premium can be used at above and underground drainage systems.
- Silenta Premium is suitable for non-pressurized hot/cold water and acidic liquid transfers.
- Silenta Premium is GF Hakan Plastik's globally registered trademark.
- Provides excellent sound insulation, creates ideal conditions for buildings and contributes to increase in the property value along with the quality of life.
- Reduces the vibrations and unfamiliar sounds coming from the plumbing system.
- High impact resistance.
- Resistant to organic and inorganic acids.
- Does not require additional sound insulation systems.
- Fire rating class B2, according to DIN 4102 standard.
- Alternative to cast iron.

## SILENTA APPROVALS & CERTIFICATES

Fraunhofer

GERMANY  
FRAUNHOFER INSTITUT  
( P-SA 186 / 09 P-SA187 / 09 )



TURKEY  
TURKISH STANDARDS INSTITUTION  
(59/14.02.76)



UKRAINE  
UKR SEPRO (10964)



TURKEY  
YILDIZ TECHNICAL UNIV  
(23.02.06/210)



GERMANY  
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