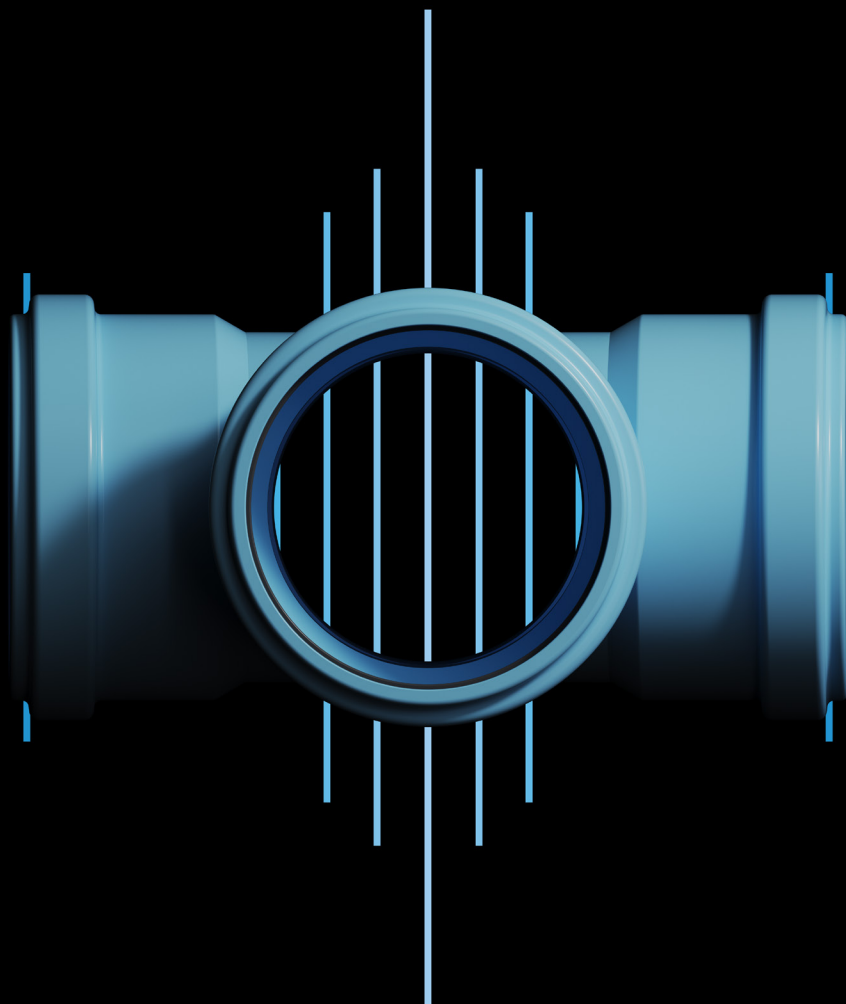


Silenta 3A

Flush out the noise





Acoustic waste water systems

The sound of stillness

In modern construction, drainage systems are essential infrastructure that most occupants never think about... until they hear them.

The cost of noise

A well-designed waste water system operates silently in the background, while a poorly chosen one creates constant disruption. The challenge lies not just in moving water efficiently, but in doing so without compromising the comfort and quality of life for building occupants. Noise from drainage systems affects people daily in residential buildings, hotels, hospitals, and offices. The sound of rushing water, rattling pipes, and vibrating connections travels through walls and floors, disturbing sleep, interrupting conversations, and reducing property values. Beyond acoustic comfort, modern drainage systems must address fire safety requirements, chemical resistance, and long-term durability. These challenges are amplified by increasing urbanization, higher building densities, and stricter building regulations demanding better acoustic performance.

Historically, cast iron and PVC pipes dominated waste water applications. Cast iron offered durability and some natural sound dampening due to its mass, making it the preferred choice for multi-story buildings. PVC became popular for its cost-effectiveness and ease of installation. Both materials established themselves as reliable standards that installers trusted and building codes accepted.

Redefining expectations

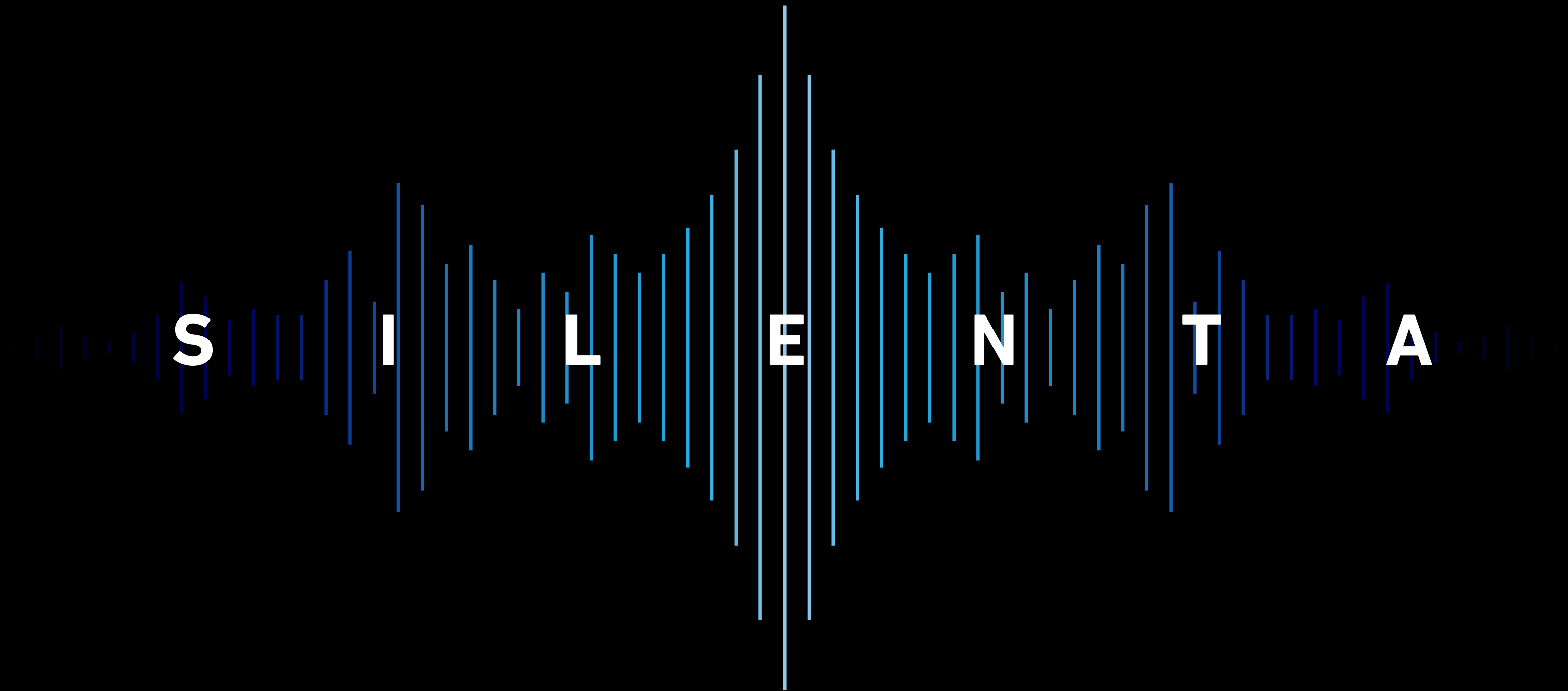
However, traditional materials come with significant drawbacks. Cast iron is heavy, requiring substantial structural support and making installation labor-intensive and time consuming. Corrosion over time leads to leaks and costly replacements. Standard PVC pipes, while lightweight and affordable, transmit noise freely: every flush becomes audible throughout the building. Neither material adequately addresses the acoustic demands of modern living spaces where comfort and quiet are not optional, but expected.

These limitations create the foundation for today's biggest challenge in waste water systems: delivering acoustic comfort while maintaining durability, installation efficiency, and environmental responsibility. Buildings are no longer judged solely on functionality. Occupant wellbeing, quality of life, and acoustic comfort have become essential criteria for successful construction projects.

Flush out the noise

Engineered for comfort
The challenges are real: noisy drainage systems disrupt daily life, reduce property values, and compromise building quality. Traditional materials cannot adequately address modern acoustic demands.

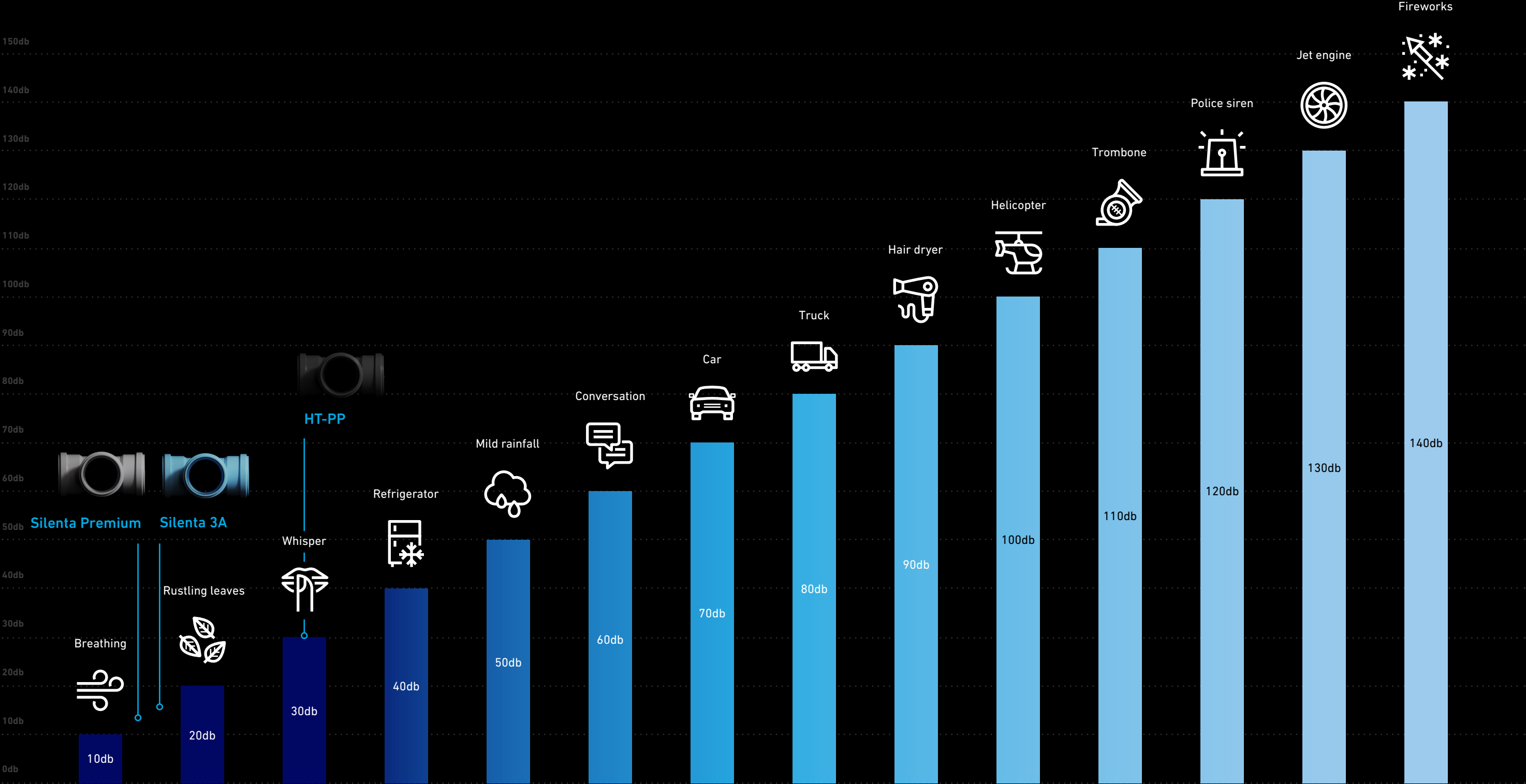
Silenta delivers the solution: sound-insulated drainage systems engineered for acoustic comfort.



> 50%
noise reduction vs.
standard PP-pipes

Quietly confident

Decibel sound levels



Your full solution partner

Silenta 3A

Delivers proven acoustic performance for residential and commercial buildings.



The right fit for every project

Every building has unique acoustic requirements and performance expectations. Silenta offers three distinct system levels, each engineered to deliver reliable drainage performance while addressing different project priorities. From essential functionality to industry-leading acoustic comfort, our range ensures installers and planners can specify the optimal solution for any application.

All three systems share the same foundation: high-quality polypropylene construction, push-fit installation, and GF reliability.

HT-PP

Provides reliable drainage for straightforward installations.

Silenta Premium

Sets the benchmark with exceptional sound insulation for premium applications.

Sound absorbing structure

Sound reduction begins with intelligent material design. Each Silenta system uses a specific layer configuration engineered to balance acoustic performance, structural durability, and installation efficiency.



Special gasket system

Guarantees water tightness while the geometrical properties of the gasket groove enables fast, effortless assembly.

Different diameter options

Silenta 3A dimension range: DN 32-200 mm.

Inner layer

Perfect flow performance, superior chemical resistance that prevents corrosion and abrasion, and built to withstand high temperatures.

Middle layer

High molecular structure and special composite formula absorb and prevent sound waves.

Outer layer

Resistant to high temperatures and impacts.

Silenta 3A incorporates three-layer technology where a specialized middle layer with high molecular structure absorbs and dampens sound waves.

All three systems (Silenta Premium, Silenta 3A and HT-PP) feature a specialized gasket design that ensures water-tight connections while allowing thermal movement. The push-fit socket connection provides fast, reliable installation across the entire range.

Proven acoustic comfort

Silenta 3A

The trusted choice for residential and commercial buildings

Silenta 3A combines excellent acoustic performance with proven reliability, making it the preferred solution for single-family homes, multi-family residential buildings, and commercial applications. This three-layer system uses specially formulated and reinforced PP material to deliver consistent sound insulation that transforms building comfort.

Engineered for environments where impact resistance, durability, and acoustic control are essential, Silenta 3A handle the demands of modern drainage systems. Available in diameters from 32 mm to 200 mm with SBR gasket technology.



Features



Excellent
sound insulation



Fire performance according to
EN 13501-1 (D-s2, d2)



Halogen-free with reduced harmful
gas emission in case of fire



Acid-resistant for
diverse applications



Temperature-resistant
construction



Push-fit
socket connection

Benefits



Highest level of acoustic
comfort for occupants



Extended system
life cycle



Enhanced safety and health
protection during fire events



Reliable performance for
mainstream projects

The trusted choice for residential and commercial buildings

Silenta 3A is engineered for projects where reliable acoustic performance is essential. These applications require proven sound insulation that balances performance with practical installation. With 15 dB(A) acoustic performance and SBR gasket technology throughout, Silenta 3A delivers the acoustic comfort these projects demand.



Single-family homes



Multi-family residential buildings



Standard hotels and hospitality



Commercial office buildings

Technical specifications

Design	3-layer pipe system (Special PP-Mineral reinforced composite)
Diameters [mm]	d32, d40, d50, d75, d110, d125, d160, d200
Pipe length [mm]	150, 250, 500, 1000, 2000, 3000
Sound transmission	15 dB(A) at 4 l/s (EN 14366)
Fire class	D-s2, d2 (EN 13501-1)
Joining method/Connection	Joining with Rubber Gasket and Socket (Push-Fit)
Attachment/Clamping	With Silent Clamps (GF or third party)
Color	Light Blue (Halogen-free and Cadmium-free)
Installation	Lighter than cast-iron pipes, and Push fit system provides easier installation compared to welded or cemented plastic systems
Thermal expansion coefficient	0.06 mm/(m·K)
Tensile strength	13 N/mm ²
Chemical resistance	Resistant to organic and inorganic chemical environments and to domestic wastewater and industrial wastewater with pH 2 – pH 12. Wherever chemically aggressive wastewater is used (e.g. for industrial applications), it is suitable for pH 2 to pH 12. An individual case assessment can be requested from GF specifying the composition of the respective wastewater and the operating conditions.
Installation temperature	Minimum: -10°C Maximum: 60°C
Operating temperature	Minimum: -10°C Maximum: 97°C
Application class	B (Building Drainage)
Ring Stiffness	ISO / DIN 9969. The ring stiffness is at least 4.0 kN / m ² over the entire dimension range: 32 mm to 200 mm
Impact strength	Complies with TSEK 169 / EN 1451
Density	Pipes: 1.24 g/cm ³ ; Fittings: 1.34 g/cm ³ (DIN 53479)
Maintenance	Negligible maintenance cost compared to metal-based systems
Permissible ambient temperature	Between -20°C and 60°C
Permissible wastewater temperature	For domestic wastewater between 0°C and 90°C, briefly up to 97°C

Certifications

Country	Institute
Germany	DiBt, SKZ
Austria	Austrian Standard
Netherlands	KIWA
Denmark	ETA-DANAK
Sweden	KIWA SwedCert
Norway	Sintef
Italy	IIC/KIWA IT
Poland	PZH, ITB
France	CSTB
Spain	AENOR
UK	BBA
Türkiye	TSEK, EPD

Some certifications are in progress and will be available in 2026.

Complete system range

Silenta 3A provides comprehensive drainage solutions with pipes and fittings across the full diameter range from 32 mm to 200 mm. Every component is designed for acoustic performance and efficient installation, ensuring system consistency from connection to connection. Push-fit technology and SBR gasket systems throughout deliver reliable, water-tight joints that maintain acoustic integrity across the entire installation.



Silenta 3A Pipe without Socket



Dia. (mm)	Leng. (mm)	Thick. (mm)	Code	Packing	
				Type	Pc
160	3000	4,0	1146615	Wooden Frame	21
200	3000	4,5	1146629	Wooden Frame	16

Silenta 3A Pipe with Single Socket



Dia. (mm)	Leng. (mm)	Thick. (mm)	Code	Packing	
				Type	Pc
32	3000	1,8	1146567	Wood. Cage	250
40	150	1,8	1146568	Box	300
40	500	1,8	1146569	Box	150
40	1000	1,8	1146570	Wood. Cage	160
40	2000	1,8	1146571	Wood. Cage	160
40	3000	1,8	1146572	Wood. Cage	160
50	150	2,0	1147145	Box	200
50	250	2,0	1147146	Box	150
50	500	2,0	1147147	Box	90
50	1000	2,0	1147148	Cage	90
50	2000	2,0	1147149	Cage	90
50	3000	2,0	1147150	Cage	90
75	150	2,6	1147151	Box	100
75	250	2,6	1147152	Box	70
75	500	2,6	1147153	Box	40
75	1000	2,6	1147154	Cage	70
75	2000	2,6	1147155	Cage	70
75	3000	2,6	1147156	Cage	70
90	150	2,8	1185505	Medium Box	28
90	250	2,8	1185506	Medium Box	20
90	500	2,8	1185507	Medium Box	12
90	1000	2,8	1185508	Wood. Cage	60
90	2000	2,8	1185509	Wood. Cage	60
90	3000	2,8	1185510	Wood. Cage	60
110	150	3,4	1147157	Box	45
110	250	3,4	1147158	Box	35
110	500	3,4	1147159	Box	20
110	1000	3,4	1147160	Cage	40
110	2000	3,4	1147161	Cage	40
110	3000	3,4	1147162	Cage	40
125	150	3,4	1147164	Box	40
125	250	3,4	1147165	Box	20
125	500	3,4	1147166	Box	16
125	1000	3,4	1147167	Cage	24
125	2000	3,4	1147168	Cage	24
125	3000	3,4	1147169	Cage	24
160	150	4,0	1147170	Box	24
160	250	4,0	1147171	Box	14
160	500	4,0	1147172	Box	8
160	1000	4,0	1147173	Cage	21
160	2000	4,0	1147174	Cage	21
160	3000	4,0	1147175	Cage	21
200	500	4,5	1147178	Box	5
200	1000	4,5	1147179	Cage	15
200	2000	4,5	1147180	Cage	15
200	3000	4,5	1147181	Cage	15

Silenta 3A

Silenta 3A Elbow 15°



Dia. (mm)	Code	Packing	
		Type	Pc
32	1146642	Box	500
40	1146645	Medium Box	500
50	1146648	Box	300
75	1146653	Box	150
90	1185525	Medium Box	39
110	1146658	Box	60
160	1146665	Box	20

Silenta 3A Elbow 30°



Dia. (mm)	Code	Packing	
		Type	Pc
50	1146649	Box	350
75	1146654	Box	150
90	1185526	Medium Box	39
110	1146659	Box	60
160	1146666	Box	20

Silenta 3A Elbow 45°



Dia. (mm)	Code	Packing	
		Type	Pc
32	1146643	Box	1000
40	1146646	Box	30
50	1146650	Box	150
75	1146656	Box	50
90	1185527	Medium Box	32
110	1146660	Box	50
125	1146663	Box	15
160	1146667	Box	6
200	1146669	Box	10

Silenta 3A Elbow 67,5°



Dia. (mm)	Code	Packing	
		Type	Pc
50	1146651	Box	300
75	1146655	Box	150
90	1185528	Medium Box	32
110	1146661	Box	50

Silenta 3A Elbow 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
32	1146644	Box	500
40	1146647	Box	450
50	1146652	Box	140
75	1146657	Box	50
90	1185529	Medium Box	32
110	1146662	Box	40
125	1146664	Box	10
160	1146668	Box	6
200	1146670	Box	6

Silenta 3A Branch 45°



Dia. (mm)	Code	Packing	
		Type	Pc
32-32	1146671	Box	250
40-40	1146672	Box	30
50-50	1146674	Box	50
75-50	1146677	Box	20
75-75	1146678	Box	10
90-50	1185511	Medium Box	8
90-75	1185512	Medium Box	14
90-90	1185530	Medium Box	14
110-50	1146682	Box	40
110-75	1146683	Box	30
110-90	1185513	Box	10
110-110	1146684	Box	20
125-50	1146691	Box	15
125-75	1146692	Box	10
125-110	1146693	Box	8
125-125	1146694	Box	6
160-110	1146697	Box	10
160-125	1146698	Box	10
160-160	1146699	Medium Box	8
200-110	1146704	Box	4
200-125	1146705	Box	4
200-160	1146706	Medium Box	4
200-200	1146707	Medium Box	4

Silenta 3A Branch 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
40-40	1146673	Box	200
50-50	1146675	Box	30
75-50	1146679	Box	10
75-75	1146680	Box	15
110-50	1146685	Box	50
110-75	1146686	Box	15
110-110	1146687	Box	10
125-125	1146696	Box	4
160-110	1146701	Box	14
160-160	1146700	Box	10

Silenta 3A Branch Radius 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
90-50	1185514	Medium Box	8
90-75	1185515	Medium Box	18
90-90	1185516	Medium Box	16
110-90	1185519	Medium Box	12

Silenta 3A Double Branch 45°



Dia. (mm)	Code	Packing	
		Type	Pc
50-50	1146676	Box	15
75-50	1146681	Box	15
110-50	1146689	Box	7
110-110	1146690	Box	6
160-110	1146702	Box	8

Silenta 3A Double Branch 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
110-110	1146688	Box	20

Silenta 3A Double Branch Radius 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
90-90	1185518	Medium Box	8
110-110	1185520	Medium Box	4

Silenta 3A Corner Double Branch Radius 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
90-90	1185517	Medium Box	12
110-110	1147222	Box	20

Silenta 3A Parallel Branch AMS 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
90-50	1185536	Medium Box	4
90-90	1185535	Medium Box	4

Silenta 3A Reducer Eccentric



Dia. (mm)	Code	Packing	
		Type	Pc
40-32	1146711	Box	750
50-32	1146712	Box	500
50-40	1146713	Box	30
75-50	1146714	Box	100
90-50	1185522	Medium Box	32
90-75	1185523	Medium Box	32
110-50	1146715	Box	50
110-75	1146716	Box	40
110-90	1185524	Medium Box	18
125-110	1146717	Box	25
160-110	1146718	Box	20
160-125	1146719	Box	20
200-160	1146720	Box	10

Silenta 3A Collectors



Dia. (mm)	Descript.	Code	Packing	
			Type	Pc
110-75-50-50	Short	1146741	Medium Box	12
110-75-50-50	Medium	1146742	Medium Box	12
110-75-50-50	Long	1147257	Medium Box	12

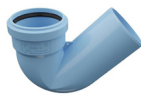
Silenta 3A Collectors Seal Rubber



Dia. (mm)	Description	Code
110	Short-Med	1146638
110	Long	1147256

Silenta accessories complete the system with purpose-designed seals, gaskets, and clamps covering the full range of installation requirements. Every component is engineered for compatibility with Silenta pipes and fittings, ensuring secure connections from start to finish. Consistent quality standards across the entire accessories range deliver reliable, long-term performance throughout the installation.

Silenta 3A P-Trap



Dia. (mm)	Code	Packing	
		Type	Pc
110	1146737	Medium Box	25

Silenta 3A Repair Pipe



Dia. (mm)	Code	Packing	
		Type	Pc
110	1147255	Medium Box	15

Silenta 3A Socket



Dia. (mm)	Code	Packing	
		Type	Pc
32	1147244	Box	600
40	1146721	Box	600
50	1146722	Box	50
75	1146724	Box	20
90	1185532	Medium Box	18
110	1146726	Box	10
160	1146729	Box	6
200	1146731	Box	12

Silenta 3A Sleeve Socket



Dia. (mm)	Code	Packing	
		Type	Pc
50	1146723	Box	50
75	1146725	Medium Box	35
90	1185533	Medium Box	18
110	1146727	Box	8
160	1146730	Medium Box	6
200	1146732	Medium Box	4

Silenta 3A Socket Plug



Dia. (mm)	Code	Packing	
		Type	Pc
40	1147251	Box	1000
50	1146738	Box	125
75	1146739	Box	50
90	1185531	Bag	50
110	1146740	Box	25
125	1146743	Box	20
160	1146744	Box	12

* Silenta 3A S Siphon 45°



Dia. (mm)	Code	Packing	
		Type	Pc
75	1146733	Box	20
110	1146735	Box	6

* Silenta 3A S Siphon 87,5°



Dia. (mm)	Code	Packing	
		Type	Pc
75	1146734	Box	50
110	1146736	Box	5

Silenta 3A Access Pipe Circular



Dia. (mm)	Code	Packing	
		Type	Pc
75	1146709	Box	15
90	1185534	Medium Box	8
110	1146708	Box	6

Silenta 3A Access Pipe Rectangular



Dia. (mm)	Code	Packing	
		Type	Pc
160	1146710	Box	8

Silenta 3A Clamp Plastic



Dia. (mm)	Code	Packing	
		Type	Pc
50	1146634	Box	100
75	1146636	Box	200
110	1146637	Box	100
125	1146639	Box	100
160	1146640	Box	50

Silenta Seal Rubber Mol



Dia. (mm)	Code
32	1159801
40	1150059
50	1150060
75	1150062
90	1150065
110	1150068
125	1150070
160	1150071
200	1150072

Silenta Seal Rubber Trbg



Dia. (mm)	Code
90	1150064
110	1150066
160	1159827
200	1159830

Silenta Seal Rubber Mono Lip



Dia. (mm)	Code
50	1159803
75	1159809
110	1159820

Silenta Seal Rubber Double Lip



Dia. (mm)	Code
125	1162760
160	1162759

Silenta Clamp Standard Clamp



Dia. (mm)	Code	Packing	
		Type	Pc
50	1146635	Box	100
75	1147141	Box	40
110	1146522	Box	40

Silenta Safety Clamp



Dia. (mm)	Code	Packing	
		Type	Pc
90	1146516	Box	10
110	1146523	Box	2
160	1161248	Box	2
200	1146540	Medium Box	1

Silenta Clamp Silence Single



Dia. (mm)	Code	Packing	
		Type	Pc
50	1146151	Box	150
75-78	1146155	Box	30
110	1146157	Box	25
125	1146160	Box	25
160	1146165	Box	25
200	1146167	Box	20

Silenta Clamp Silence Double



Dia. (mm)	Code	Packing	
		Type	Pc
50	1146150	Box	20
75-78	1146154	Box	15
110	1146156	Box	10
125	1146159	Box	10
160	1146164	Box	7
200	1146166	Box	5

* To be used only under the WC stone



Explore Silenta

Next steps

Proven solutions

Acoustic comfort in waste water drainage is no longer a compromise between performance and installation efficiency. Silenta's three-tier approach ensures every project, from cost-conscious installations to premium developments, benefits from engineered sound reduction, durable construction, and reliable push-fit technology.

Buildings deserve drainage systems that operate silently in the background. Occupants deserve environments free from disruptive noise. Silenta makes both possible.

Enjoy the silence

You've now explored how Silenta delivers acoustic comfort through intelligent material design and how each system addresses specific project requirements while maintaining the reliability and quality that defines GF.

Ready to specify the right system for your next project? The Silenta page provides detailed information for each system level, helping you make informed decisions across all building types.



Learn more at
georgfischer.com/silenta



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