



12dB (A)

Sound Insulation
Level III

Let
the **silence**
be the only
thing you hear

S·LINE

WE ARE

A private company Peštan, leader in the Balkans in the production and distribution of products and solutions from the polymers.

Company was founded in in 1989 and has been producing water pipes made of polyethylene.

Over time, we introduced new materials (polypropylene and PVC) and expanded product range. Today, in our offer you may find more than 6500 products, divided into four categories:



**PIPING
SOLUTIONS**



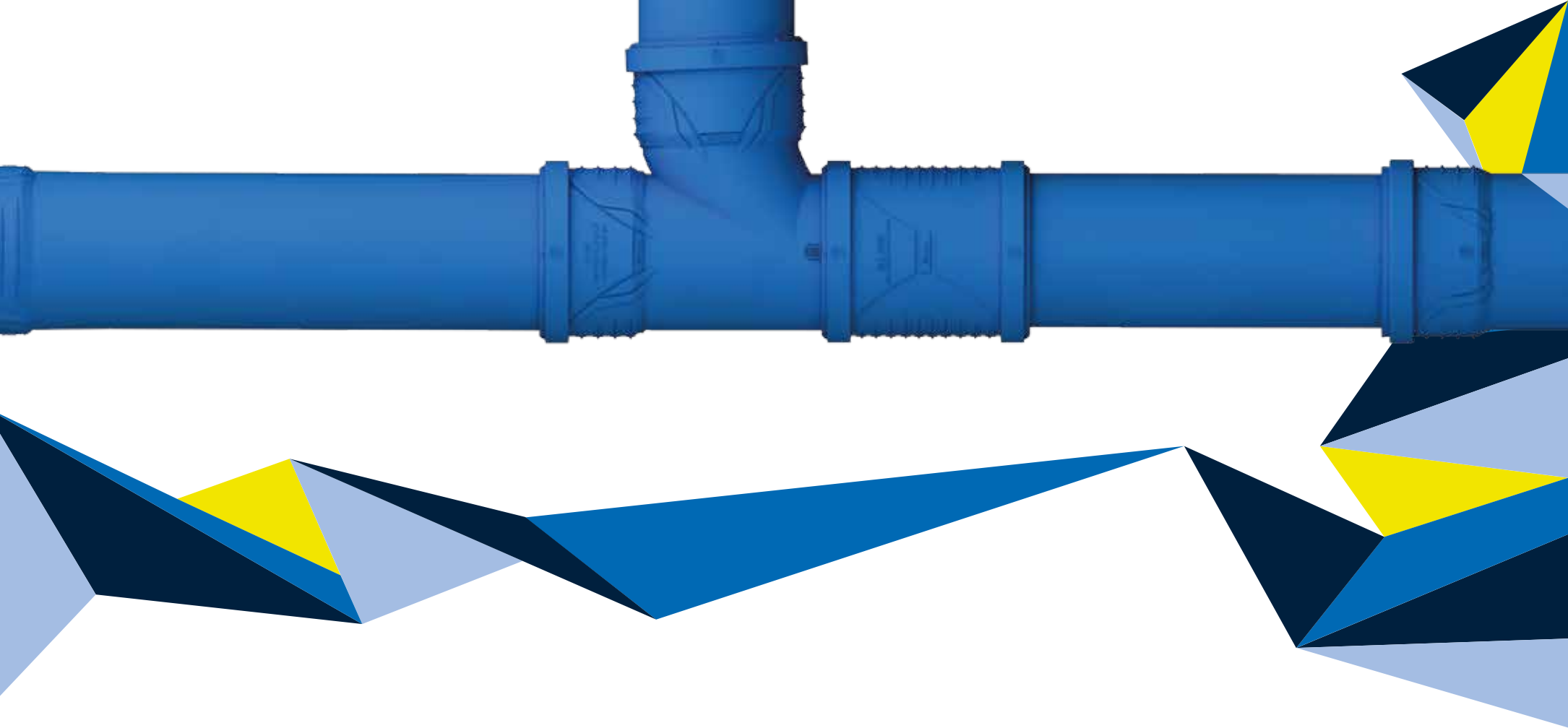
**DRAIN
SOLUTIONS**



**AGRICULTURE
SOLUTIONS**



**HOUSEHOLD
SOLUTIONS**



The image features a blue pipe system with an elbow and a straight section. To the left, there are several overlapping triangles in shades of blue, yellow, and light blue, some pointing towards the pipe. The background is white.

S·LINE

Silent pipes and fittings Ø32 - Ø160

Provides reduction in noise and vibrations up to level of 12dB



S LINE SILENT SEWAGE SYSTEM

The pipes for domestic sewerage systems together with the appropriate coupling sleeves are intended to be used for the removal of all kinds of waste water.

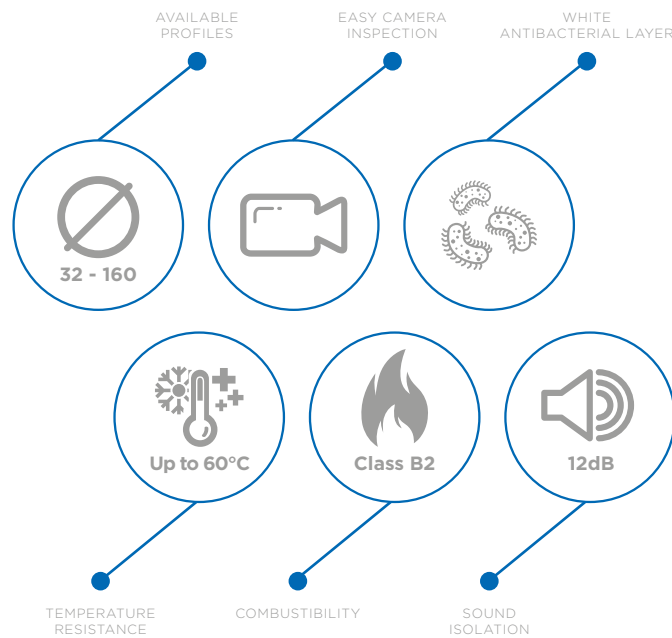
Peštan silent piping system is a promoted version of Peštan HTPP home sewage system and it is specially designed for installation in places where sound insulation is taken into account.

Installed with special pipe clamps (with profiled rubber ring) provides reduction in noise and acoustic vibrations up to level of 12dB(A)*.

The latest technology of three-layer extrusion pipe and materials modified with mineral additives have raised disposal of waste water

systems within the building structure on a higher level.

* LSC,A [dB(A)] Fraunhofer test report P-BA 213/2016e



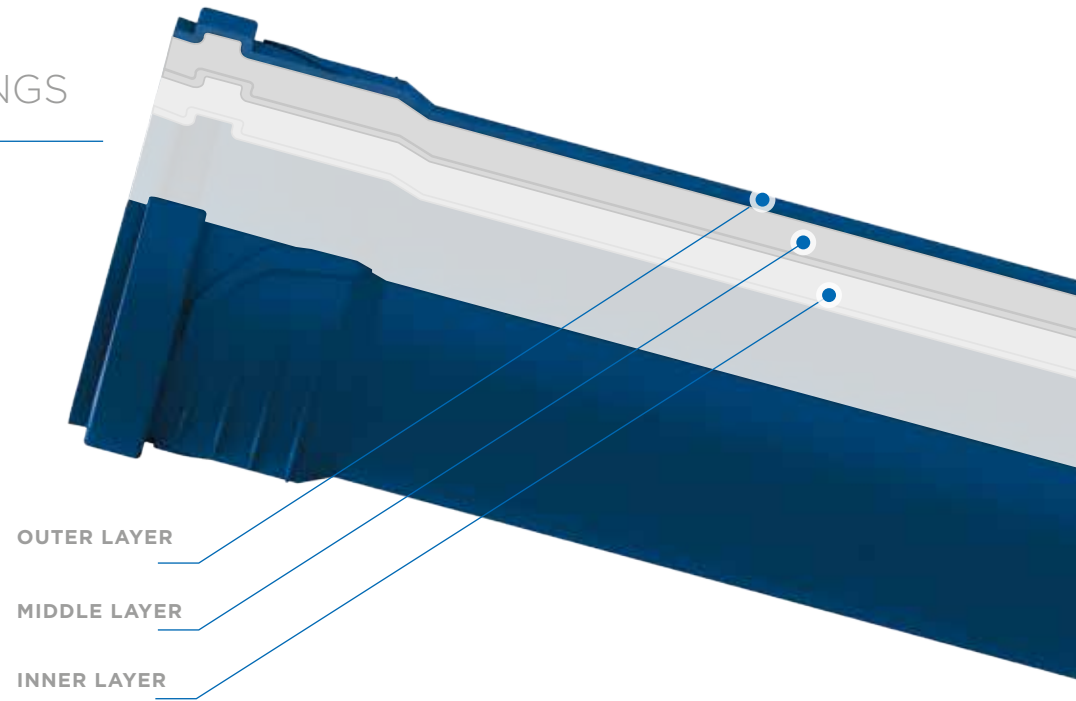
SPECIFICATION OF SILENT PIPES & FITTINGS

Peštan S LINE pipes are consisted of three layers, where each layer contributes to the desired characteristics of the product.

Inner layer: Made of polypropylene copolymer, smooth white inner surface prevents the buildup of sludge and reduces abrasion on the pipes. It allows easy inspection of the pipeline as it is white. It is resistant to high temperatures and chemicals.

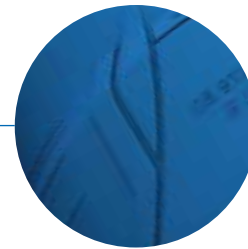
Middle layer: Made of polypropylene copolymer and strengthened mineral filler, gives to pipes strength and flexibility.

External layer: Made of polypropylene copolymer, blue. Provides better impact resistance to the pipes, and greater safety when handling and installing products.



SUPPORTED STANDARDS:
EN 1451 • EN 1411 • EN 14366 • EN 681 • EN 12056

Material	PP-H (polypropylene copolymer)
Pipe structure	Three-layer composite pipe PPC-PPM-PPC
Density	pipes (Ø32-Ø160) - 1.3 g/cm ³ fitting - 1.4 g/cm ³
Hot water resistance	short term up to 95°C long term up to 60°C
Linear expansion coefficient	0.05 mm/m°C
Chemical resistance	pH 2- pH 12
E - modulus	2400-3100 MPa
Joining method	Push-fit sockets with inserted rubber ring - resistant to leakage up to pressure of 0.5bar
Application category	BD (instalation in buildings and in building construction)
Fire classification	B2 - normal inflamability
Sound insulation level	12 dB(A) sound insulation Level III



NEW - IMPROVED design of fitting socket



MARKER for determining angle of rotation of the fitting.



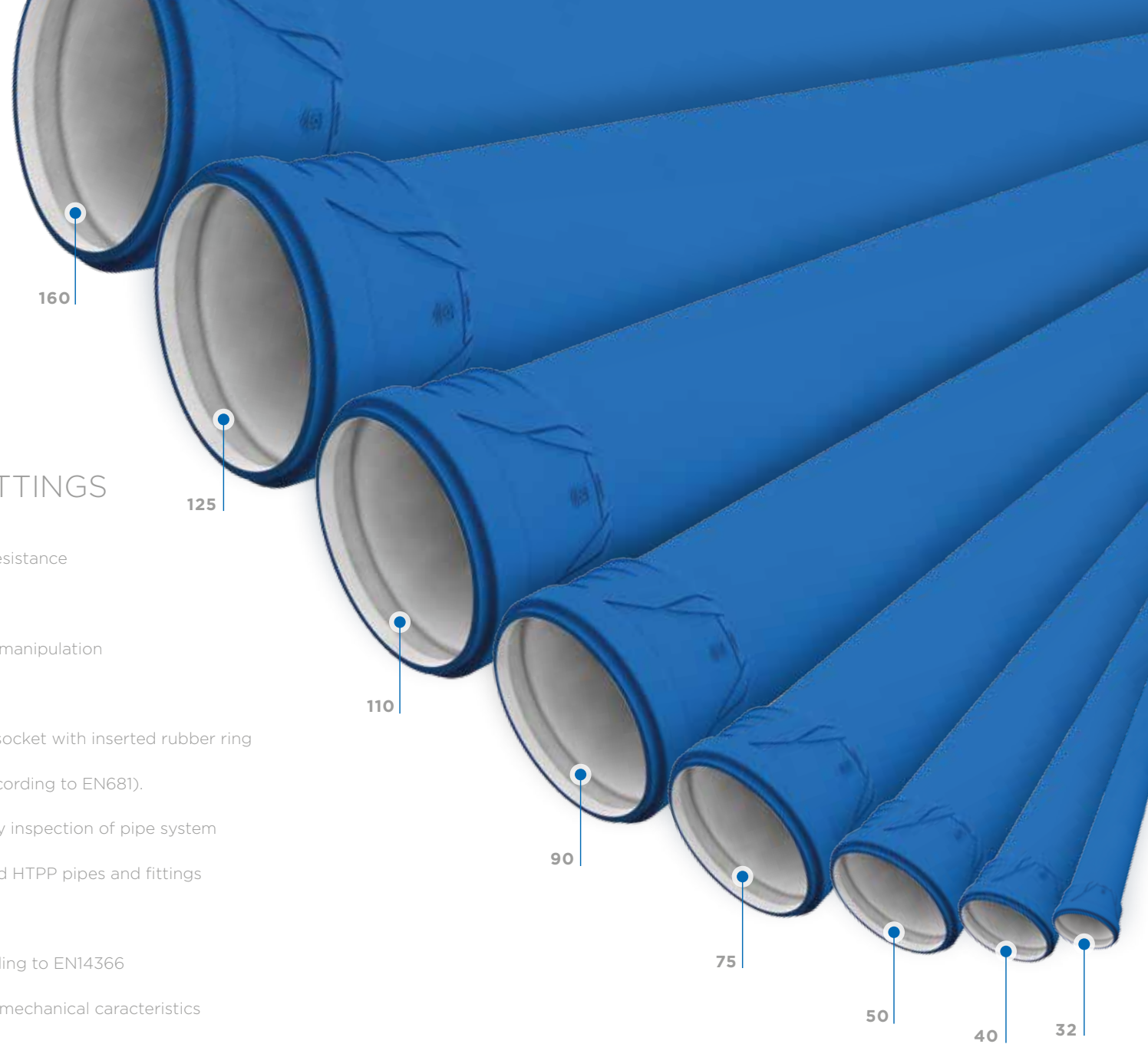
REINFORCEMENT ribs for strenghtening the fitting



Peštan logo „**THE HOUSE**” on the bottom of the fitting is used as a marker for the depth of insertion of the fitting into the socket of a pipe or other fitting.

ADVANTAGES OF S LINE PIPES AND FITTINGS

- High thermal, chemical and corrosion resistance
- Good electric insulator
- Simple and easy way of transport and manipulation
- Fast and cheap assembling
- Connection is performed through the socket with inserted rubber ring
- O-rings are made of EPDM rubber (according to EN681).
- White surface of inner layer allows easy inspection of pipe system
- Fully compatible with Pešťan's PVC and HTPP pipes and fittings
- High wear and impact resistance
- Acoustic insulation level 12dB(A) according to EN14366
- Made of a light material with excellent mechanical characteristics
- Practically no costs of pipeline maintenance
- Service life longer than 50 years





ARC OF DEFLECTION

PEŠTAN S LINE ARCHED T BRANCH

Sound isolation with simple connection of Pešťan S LINE arched branches

The system of sewage pipes and fittings with a simple connection, Pešťan S LINE system is ideal for fast, economical and acoustically optimized installation of wastewater within the system for drainage and sewerage. It can be used in homes with one or more families as a comprehensive waste water installations or in multi-story buildings intended for business or housing as supply lines (vertical).

Pešťan S LINE arched branch, produced in typical dimension for vertical lines, is hydraulically optimized. That way enables greater loads or in some cases smaller dimensions of vertical lines.

Dimensions of Pešťan S LINE band branch

- 90/90/87.5°
- 110/90/87.5°
- 110/110/87.5°

Noise isolation

Hydraulically optimized **Pešťan S LINE arched branch** in combination with three layer pipes provides higher coefficient of flow and less noise in the sewer pipe. Pešťan S LINE system together with **Pešťan S LINE arched branch** is perfect for vertical lines and fast multi-level connections which are optimized for noise.

The higher coefficient of flow

Hydraulically optimized geometry of jointing elements of Pešťan S LINE system together **Pešťan S LINE arched branch** allows economical dimensioning. Smaller dimensions are cheaper and have greater load carrying capacity.

NOISE FROM WASTE WATER INSTALLATIONS

There are two types of noise in waste water installation systems:

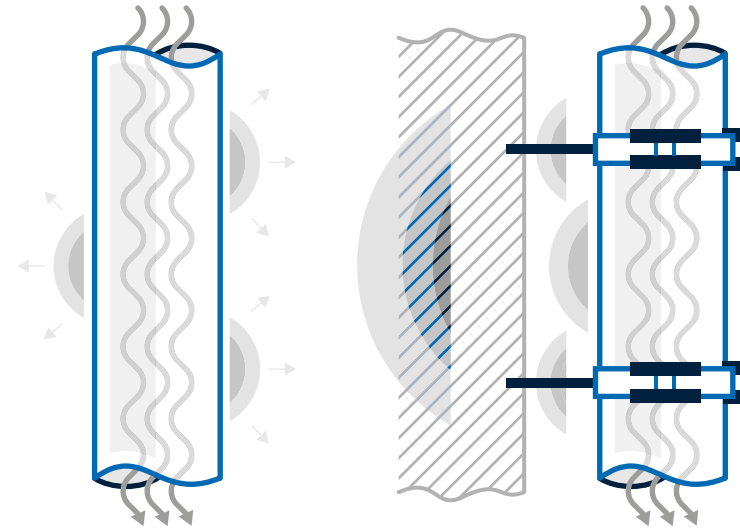
- Airborn noise
- Structure-borne noise

Airborn noise

Is consequence of waste water flowing within piping system. With special design of Peštan silent pipes airborne sound is limited and kept inside pipes preventing anying noise to leave the system.

Structure-borne noise

Are vibrations created by flowing waste water inside pipes. From pipes it is transmitted to pipe clamps and finally to walls of the buildings creating irritating sounds. With special pipe clamps and with correct installation of the pipes this type of noise can be reduced to minimum.



ACOUSTIC INSULATION

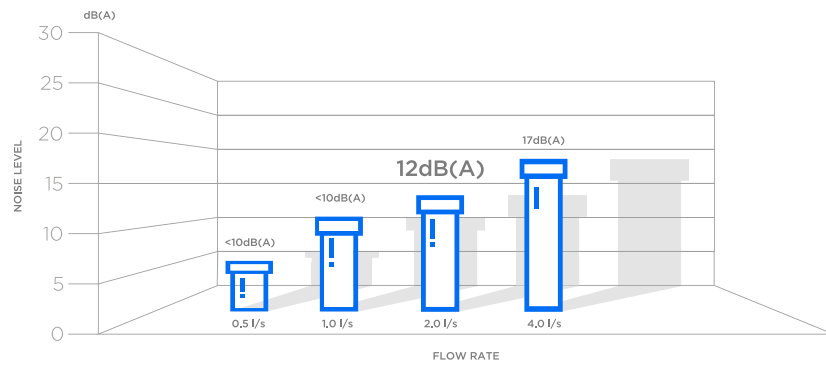
According to DIN 4109 noise generated from the pipeline, built-in sound-protected areas should not exceed 35 dB (A). At the same time, the norm VDI 4100 guideline shows that the noise should not exceed 30dB (A). From the above mentioned reasons, Pešťan and its S LINE system were put on testing at the renowned Institute in Stuttgart, where is obtained confirmation of our quality.

According to studies, Pešťan S LINE pipes and related fittings can be classified into LEVEL III of sound insulation with results of 12dB(A)*, obtained in the tests**.

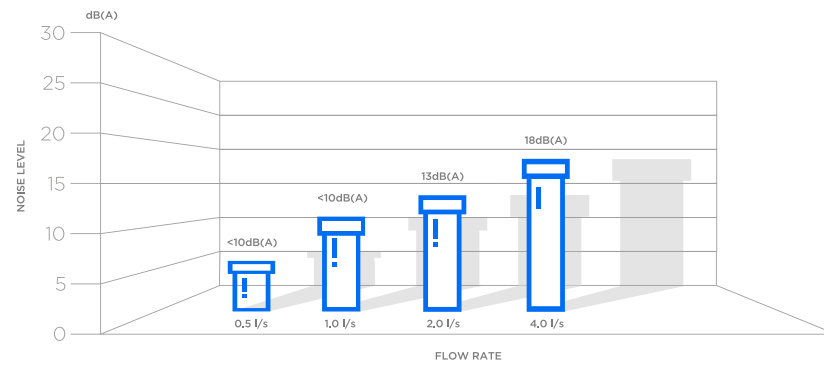
Confirmation of the effective elimination of mentioned problems is done in special acoustic laboratory for measuring noise from wastewater installation systems of Fraunhofer institute Stuttgart. The obtained value from testing of 12dB(A)* makes Pešťan S LINE system suitable for installation on places where sound insulation is taken into account (hospitals, hotels, apartment buildings, universities, libraries, dormitories etc).

* LSC,A [dB(A)] Fraunhofer test report P-BA 213/2016e
 ** Test was performed on bismat 1000l collars.

Noise level of the PESTAN S LINE system in accordance with EN 14366



Noise level of the PESTAN S LINE system in accordance with VDI 4100



LEVEL OF SOUND ISOLATION AND CALSSIFICATION

According to VDI 4100, there are three levels of sound insulation, depending on the purpose of the facility in which the pipes are installed:

- Level I sound insulation - requirements according to DIN 4109 corresponding to 30 dB (A)
- Level II sound insulation - a higher level of sound insulation corresponds to 25 dB (A)
- Level III sound insulation - the highest level of sound insulation corresponds to 20 dB (A)



VDI sound insulation clasification:

- Level I sound insulation - family houses
- Level II sound insulation - apartment buildings, residential and commercial buildings with few floors
- Level III sound insulation - hotels, hospitals, libraries, reading rooms, residential complexes...



On family houses

Sound insulation level I or on agreement



Apartment buildings, residential and office buildings, comfort apartments

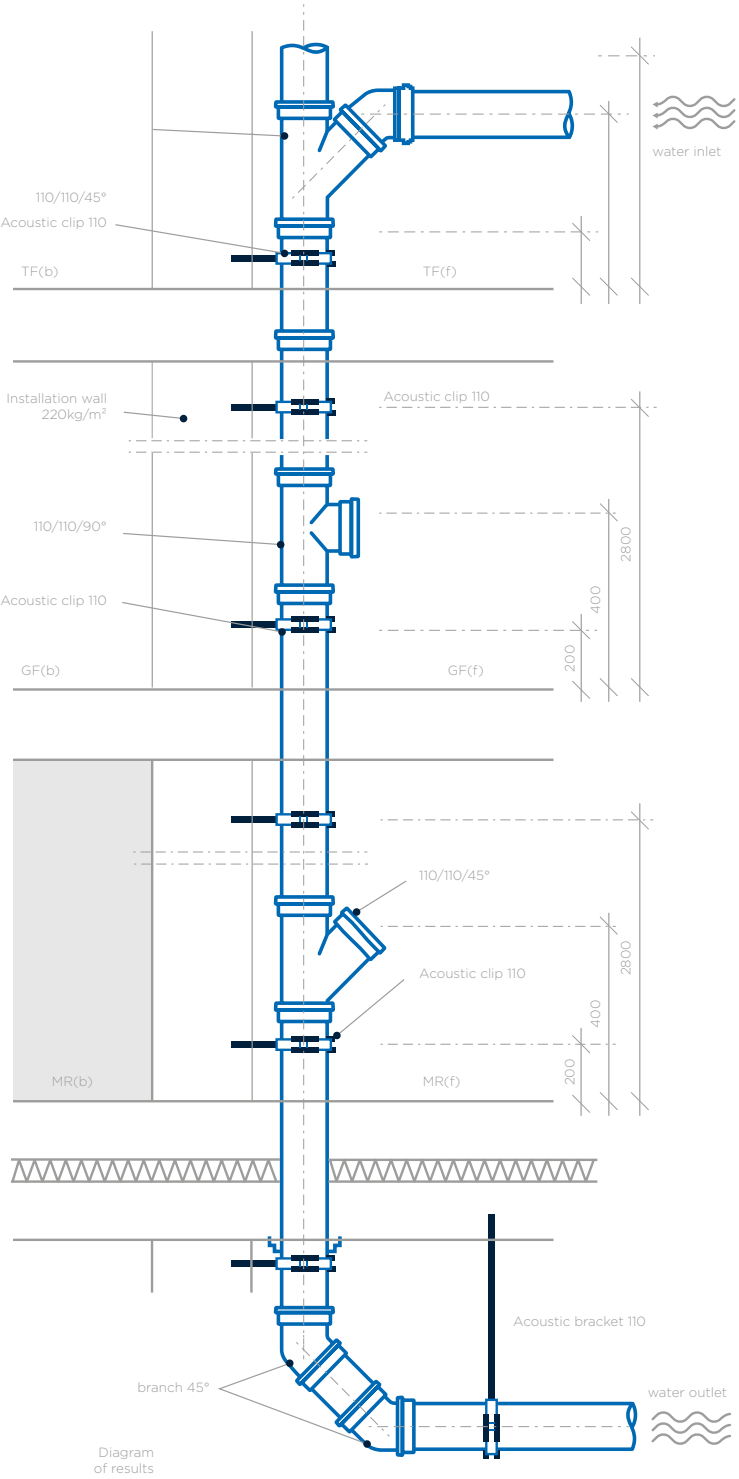
Sound insulation level II or higher



Hotels, hospitals, residential complexes

Sound insulation level III enhanced agreements

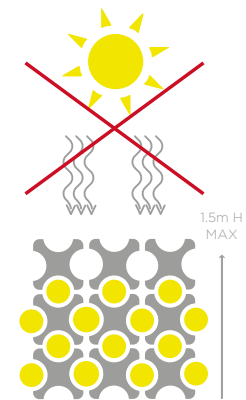
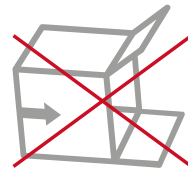
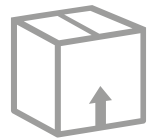
Testing of S LINE piping system



PACKING, STORAGE AND TRANSPORTATION:

All the fittings are packed in cardboard boxes. All pipes are packed in bundles. In order to prevent damage during transport, all Peštan pipes and fittings must not be transported unpacked and in horizontal position. During unloading they

must be protected against damage, particularly at temperatures below freezing. Never throw, drag or bend pipes and fittings. Pipes should be stored horizontally on even surfaces up to 1.5m high, protected against sunlight.



SILENCE IS CLOSER THAN EVER

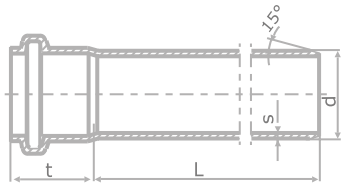
Peřtan silent system provides reduction in noise and acoustic vibrations up to level of 12dB. Silence and piece in your home is closer than ever

12dB (A)
Sound Insulation
Level III

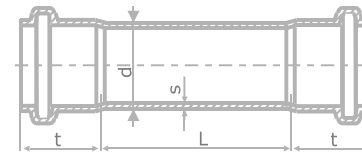


S LINE PIPES AND FITTINGS PRODUCT RANGE

Pipe with single socket



Pipe with double socket



	D	L	S		D	L	S
10304500	32	150	1.8	10304580	90	150	2.8
10304501		250		10304581		250	
10304502		500		10304582		500	
10304503		750		10304583		750	
10304504		1000		10304584		1000	
10304505		1500		10304585		1500	
10304506		2000		10304586		2000	
10304507		2500		10304587		2500	
10304508		3000		10304588		3000	
10304509	4000	10304589	4000				
10304520	40	150	1.8	10304600	110	150	3,4+0,4
10304521		250		10304601		250	
10304522		500		10304602		500	
10304523		750		10304603		750	
10304524		1000		10304604		1000	
10304525		1500		10304605		1500	
10304526		2000		10304606		2000	
10304527		2500		10304607		2500	
10304528		3000		10304608		3000	
10304529		4000		10304609		4000	
10304540	50	150	1.8	10304620	125	150	3,9
10304541		250		10304621		250	
10304542		500		10304622		500	
10304543		750		10304623		750	
10304544		1000		10304624		1000	
10304545		1500		10304625		1500	
10304546		2000		10304626		2000	
10304547		2500		10304627		2500	
10304548		3000		10304628		3000	
10304549		4000		10304629		4000	
10304560	75	150	2.3	10304640	160	150	4,9
10304561		250		10304641		250	
10304562		500		10304642		500	
10304563		750		10304643		750	
10304564		1000		10304644		1000	
10304565		1500		10304645		1500	
10304566		2000		10304646		2000	
10304567		2500		10304647		2500	
10304568		3000		10304648		3000	
10304569		4000		10304649		4000	

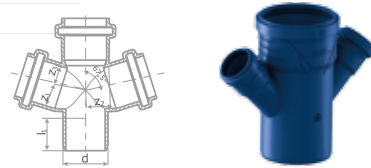
	D	L	S		D	L	S
10305000	32	500	1.8	10305080	90	500	2.8
10305001		750		10305081		750	
10305002		1000		10305082		1000	
10305003		1500		10305083		1500	
10305004		2000		10305084		2000	
10305005		2500		10305085		2500	
10305006		3000		10305086		3000	
10305007		4000		10305087		4000	
10305020		40		500		1.8	
10305021	750		10305101	750			
10305022	1000		10305102	1000			
10305023	1500		10305103	1500			
10305024	2000		10305104	2000			
10305025	2500		10305105	2500			
10305026	3000		10305106	3000			
10305027	4000		10305107	4000			
10305040	50	500	1.8	10305120	125	500	3,9
10305041		750		10305121		750	
10305042		1000		10305122		1000	
10305043		1500		10305123		1500	
10305044		2000		10305124		2000	
10305045		2500		10305125		2500	
10305046		3000		10305126		3000	
10305047		4000		10305127		4000	
10305060	75	500	2.3	10305140	160	500	4,9
10305061		750		10305141		750	
10305062		1000		10305142		1000	
10305063		1500		10305143		1500	
10305064		2000		10305144		2000	
10305065		2500		10305145		2500	
10305066		3000		10305146		3000	
10305067		4000		10305147		4000	

CODE	DESCRIPTION	PICTURE	Z ₁	Z ₂	L ₁ MIN	D
S LINE BEND 15°						
10304000	Silent bend HTB 32/15°		25	8.45	25	32
10304001	Silent bend HTB 40/15°		26.5	8.97	26.5	40
10304002	Silent bend HTB 50/15°		29.005	8.26	29.005	50
10304003	Silent bend HTB 75/15°		31.79	12.01	37.79	75
10304004	Silent bend HTB 90/15°		33.5	13.83	33.5	90
10304005	Silent bend HTB 110/15°		40.885	16.34	40.885	110
10304006	Silent bend HTB 125/15°		43.84	19.52	43.84	125
10304007	Silent bend HTB 160/15°		47.915	23.05	47.915	160
S LINE BEND 30°						
10304020	Silent bend HTB 32/30°		25	10.4	25	32
10304021	Silent bend HTB 40/30°		26.5	11.5	26.5	40
10304022	Silent bend HTB 50/30°		30.57	11.24	30.57	50
10304023	Silent bend HTB 75/30°		29.5	16.69	29.5	75
10304024	Silent bend HTB 90/30°		33.5	19.58	33.5	90
10304025	Silent bend HTB 110/30°		44.385	21.66	44.385	110
10304026	Silent bend HTB 125/30°		47.81	27.06	47.81	125
10304027	Silent bend HTB 160/30°		53.01	32.43	53.01	160
S LINE BEND 45°						
10304040	Silent bend HTB 32/45°		27.88	11.97	27.88	32
10304041	Silent bend HTB 40/45°		30.205	14.64	30.205	40
10304042	Silent bend HTB 50/45°		32.245	14.89	32.245	50
10304043	Silent bend HTB 75/45°		36.705	22.05	36.705	75
10304044	Silent bend HTB 90/45°		42.18	25.7	42.18	90
10304045	Silent bend HTB 110/45°		48.145	30.92	48.145	110
10304046	Silent bend HTB 125/45°		52.075	35.6	52.075	125
10304047	Silent bend HTB 160/45°		58.47	44.24	58.47	160
S LINE BEND 67,5°						
10304060	Silent bend HTB 32/67,5°		29.645	16.03	29.645	32
0000000	Silent bend HTB 40/67,5°		32.48	18.71	32.48	40
10304062	Silent bend HTB 50/67,5°		35.15	21.03	35.15	50
10304063	Silent bend HTB 75/67,5°		41.125	30.49	41.125	75
10304064	Silent bend HTB 90/67,5°		47.5	36.39	47.5	90
10304065	Silent bend HTB 110/67,5°		54.67	43.68	54.67	110
10304066	Silent bend HTB 125/67,5°		59.475	51.07	59.475	125
10304067	Silent bend HTB160/67,5°		67.955	63.7	67.955	160
S LINE BEND 87,5°						
10304080	Silent bend HTB 32/87,5°		31.655	20.09	31.655	32
10304081	Silent bend HTB 40/87,5°		35.07	23.77	35.07	40
10304082	Silent bend HTB 50/87,5°		38.46	27.59	38.46	50
10304083	Silent bend HTB 75/87,5°		46.155	40.69	46.155	75
10304084	Silent bend HTB 90/87,5°		54.055	48.65	54.055	90
10304085	Silent bend HTB 110/87,5°		62.1	58.545	62.1	110
10304086	Silent bend HTB 125/87,5°		67.905	68.15	67.905	125
10304087	Silent bend HTB 160/87,5°		43	84.73	43	160

DESCRIPTION		PICTURE	Z ₁	Z ₂	Z ₃	L ₁ MIN	D
S LINE BRANCH 45°							
10304100	Silent branch HTEA 32/32/45°		6.78	47.68	47.6	47.22	32
10304101	Silent branch HTEA 40/32/45°		2.64	54.48	53.64	52	40
10304102	Silent branch HTEA 40/40/45°		8.28	59.24	59.41	49.72	40
10304103	Silent branch HTEA 50/32/45°		2.14	61.09	57.72	48.1	50
10304104	Silent branch HTEA 50/40/45°		3.59	64.95	64.5	55	50
10304105	Silent branch HTEA 50/50/45°		10.36	70.52	70.49	63	50
10304106	Silent branch HTEA 75/40/45°		9.22	84.015	78.12	46.5	75
10304107	Silent branch HTEA 75/50/45°		2.14	88.4	85.84	54	75
10304108	Silent branch HTEA 75/75/45°		15.53	103.97	103.79	70	75
10304109	Silent branch HTEA 90/50/45°		9.64	98.49	90.32	54	90
10304110	Silent branch HTEA 90/75/45°		8.03	113.31	110.37	72	90
10304111	Silent branch HTEA 90/90/45°		18.64	120.98	120.94	81.5	90
10304112	Silent branch HTEA 110/40/45°		26.72	107.36	96.65	42	110
10304113	Silent branch HTEA 110/50/45°		19.64	112.46	120.74	49	110
10304114	Silent branch HTEA 110/75/45°		1.97	127.72	121.75	67	110
10304115	Silent branch HTEA 110/90/45°		8.64	136.75	132.65	76	110
10304116	Silent branch HTEA 110/110/45°		22.78	146.67	145.67	92.5	110
10304117	Silent branch HTEA 125/90/45°		1.14	146.65	140.05	75	125
10304118	Silent branch HTEA 125/110/45°		15.28	159.68	156.64	89	125
10304119	Silent branch HTEA 125/125/45°		25.89	169.58	170.03	100	125
10304120	Silent branch HTEA 160/110/45°		2.22	185.82	174.3	78	160
10304121	Silent branch HTEA 160/125/45°		8.39	193.75	188.78	89	160
10304122	Silent branch HTEA 160/160/45°	33.14	213.57	213.49	114	160	
S LINE BRANCH 87,5°							
10304130	Silent branch HTEA 32/32/87,5°		15.3	22.51	22.53	47.86	32
10304132	Silent branch HTEA 40/40/87,5°		19.08	27.3	27.62	49.92	40
10304134	Silent branch HTEA 50/40/87,5°		19.96	30.47	27.35	50.06	50
10304135	Silent branch HTEA 50/50/87,5°		23.93	31.37	31.57	52.07	50
10304136	Silent branch HTEA 75/40/87,5°		16.84	42.925	29.66	55.58	75
10304137	Silent branch HTEA 75/50/87,5°		23.39	43.57	35.96	55.47	75
10304138	Silent branch HTEA 75/75/87,5°		35.9	46.23	46.72	56.1	75
10304139	Silent branch HTEA 90/50/87,5°		23.06	51.07	68.31	64.44	90
10304140	Silent branch HTEA 90/75/87,5°		35.57	53.17	47.06	63.63	90
10304141	Silent branch HTEA 90/90/87,5°		43.08	55.3	55.41	63.42	90
10304142	Silent branch HTEA 110/40/87,5°		17.62	61.475	30.465	68.53	110
10304143	Silent branch HTEA 110/50/87,5°		22.62	62.2	35.82	69.4	110
10304144	Silent branch HTEA 110/75/87,5°		35.13	63.11	47.49	69.75	110
10304145	Silent branch HTEA 110/90/87,5°		42.6	63.32	56.25	70.75	110
10304146	Silent branch HTEA 110/110/87,5°		52.65	65.19	65.96	70.84	110
10304147	Silent branch HTEA 125/90/87,5°		42.31	72.485	70.79	73.79	125
10304148	Silent branch HTEA 125/110/87,5°		52.48	75.05	66.48	73.19	125
10304149	Silent branch HTEA 125/125/87,5°		59.83	73.99	74.55	73.17	125
10304150	Silent branch HTEA 160/110/87,5°		51.67	89.79	70.39	80.45	160
10304151	Silent branch HTEA 160/125/87,5°		59.07	93.12	77.12	80.06	160
10304152	Silent branch HTEA 160/160/87,5°		76.58	98.97	98.44	80.42	160

S LINE BEND BRANCH 87,5°							
10304240	Silent bend branch HTEA 90/90/87,5°		52.13	65.85	53	63.07	90
10304241	Silent bend branch HTEA 110/90/87,5°		49.89	77.35	53.42	74.9	110
10304242	Silent bend branch HTEA 110/110/87,5°		60.53	80.51	61.35	74.54	110

DESCRIPTION	PICTURE	Z ₁	Z ₂	Z ₃	L ₁ MIN	D
S LINE DOUBLE BRANCH 45°						
10304190	Silent double branch HTDA 50/90/50-45°	25.25	45	25.25	54	90
10304191	Silent double branch HTDA 50/110/50-45°	25.25	55.45	25.25	49	110



S LINE INSPECTION BRANCH							
10304178	Silent inspection branch HTRE 50		25		31.46	51	50
10304179	Silent inspection branch HTRE 75		37.5		46.74	54.5	
10304180	Silent inspection branch HTRE 90		46.44		55.83	62.06	90
10304181	Silent inspection branch HTRE 110		55		66.15	68.5	110
10304182	Silent inspection branch HTRE 125		62.5		75.53	70.5	125
10304183	Silent inspection branch HTRE 160						

DESCRIPTION	PICTURE	L	D	DESCRIPTION	PICTURE	CODE	L	D
S LINE DOUBLE SOCKET				S LINE SLIP COUPLER				
10304200	Silent double socket HTM 32	96.9	32.7	Silent slip coupler HTU 32		10304220	96.9	32.7
10304201	Silent double socket HTM 40	104	40.7	Silent slip coupler HTU 40		10304221	104	40.7
10304202	Silent double socket HTM 50	110	50.7	Silent slip coupler HTU 50		10304222	110	50.7
10304203	Silent double socket HTM 75	119	76	Silent slip coupler HTU 75		10304223	119	76
10304204	Silent double socket HTM 90	131	90	Silent slip coupler HTU 90		10304224	131	90
10304205	Silent double socket HTM 110	147	111	Silent slip coupler HTU 110		10304225	147	111
10304206	Silent double socket HTM 125	157	126	Silent slip coupler HTU 125	10304226	157	126	

	DESCRIPTION	PICTURE	Z1	L1MIN	D	D1
S LINE EXCENTRIC REDUCER						
10304160	Silent reducer HTR 40/32		15.19	54.88	40	32.7
10304161	Silent reducer HTR 32/40		10.435	54.88	40	36.9
10304163	Silent reducer HTR 40/50		17.32	57.88	50	40.7
10304164	Silent reducer HTR 50/40		17.32	57.88	50	40.7
10304165	Silent reducer HTR 75/50		20.94	62.26	75	50.7
10304177	Silent reducer HTR 90/40		19.17	71.16	90	44.9
10304166	Silent reducer HTR 90/50		16.34	70.36	90	54.9
10304167	Silent reducer HTR 90/75		19.1	71.54	90	81
10304168	Silent reducer HTR 90/110		13.025	77.48	110	96.8
10304169	Silent reducer HTR 90/125		13.365	81.51	125	96.8
10304170	Silent reducer HTR 110/40		9.95	77.63	110	44.9
10304171	Silent reducer HTR 110/50		16.89	76.81	110	50.7
10304172	Silent reducer HTR 110/75		19.79	77.54	110	76
10304173	Silent reducer HTR 125/110		19.03	82.63	125	111
10304175	Silent reducer HTR 160/125		22.94	92.09	160	126

BRAND MANIFESTO

We do not only sell pipes, We combine reliability with quality for the ultimate benefit of our clients.
We do not build short-term client relationships, But long-term and genuine partnerships.
Everything we do, we do with one thing in mind - to create ideas to perfectly match
All our client needs

And the best way for us to achieve this goal is to...

Constantly educate our clients provide solutions that meet their specific needs
And support them throughout the entire process

Because our success is as big as your trust in us



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