

# AQUA *SILENT*

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PVC sound - absorbing  
soil system



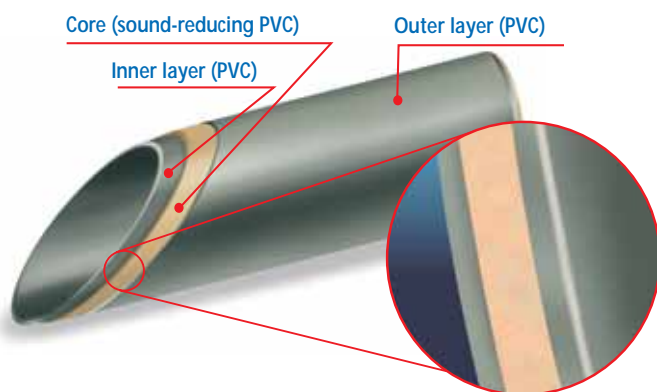
**PIPE**LIFE 

# What is AquaSilent?

## Production description

AquaSilent is a system of pipes and accessories that is specially designed to reduce the noise that accompanies the evacuation of wastewater and rainwater, and also decrease the sounds that often occur when substances travel through sanitary pipes. With its innovative three-layer PVC structure, AquaSilent is the latest technological innovation in sound insulation systems.

Two layers protect the inner core layer from external factors. This core traps the sounds that occur in the pipes, and notably reduces noise in the pipe system.



## Fields of application

AquaSilent is designed for the evacuation of wastewater and rainwater at low and high temperatures in down pipe sections as well as general drainage connections in buildings that place great importance on a noise-free environment for residents.

## Noise and Comfort

### What is noise?

We usually refer to noise as any sound that bothers us, either because of its intensity or persistence. Noise caused by constant knocking or percussion – like drums – is what we find most irritating. Long-term exposure to this type of noise can cause deafness or stress in humans and, for this reason, it is very important to minimise the impact between materials.

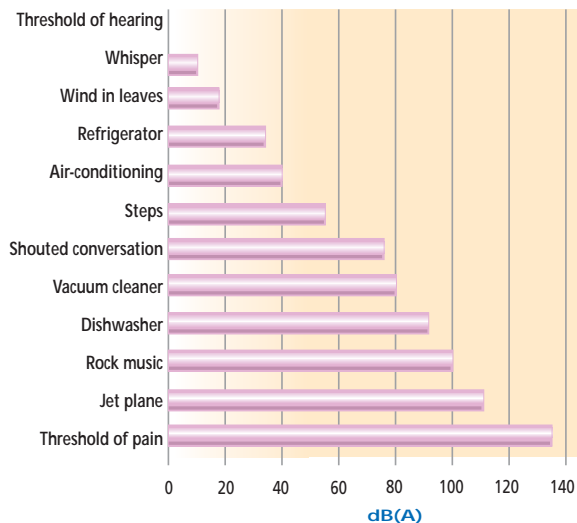
### How is noise measured?

The most appropriate way of measuring noise is by sound intensity, which is expressed in decibels (dB(A)). This is a subjective measurement adapted to human hearing, and means that an increase of 3 dB(A) in a particular noise represents twice the power of the noise emission.

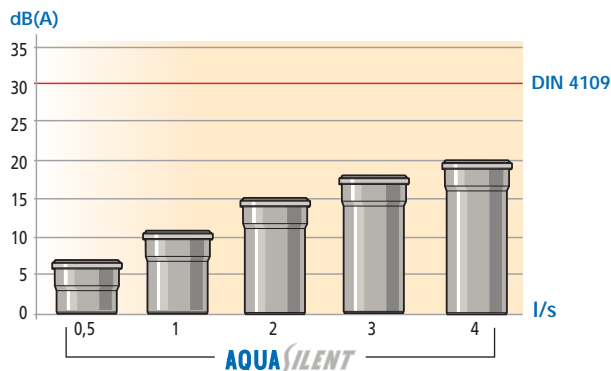
### How does AquaSilent work?

Basic construction regulations recommend that noise should not exceed 25 dB(A) in a transmission between adjoining rooms. AquaSilent products guarantee a noise level that is well below this limit, as is shown by tests carried out at the Fraunhofer Institute for Construction Physics in Germany (see table).

### COMMON NOISES AND THEIR INTENSITY IN DECIBELS

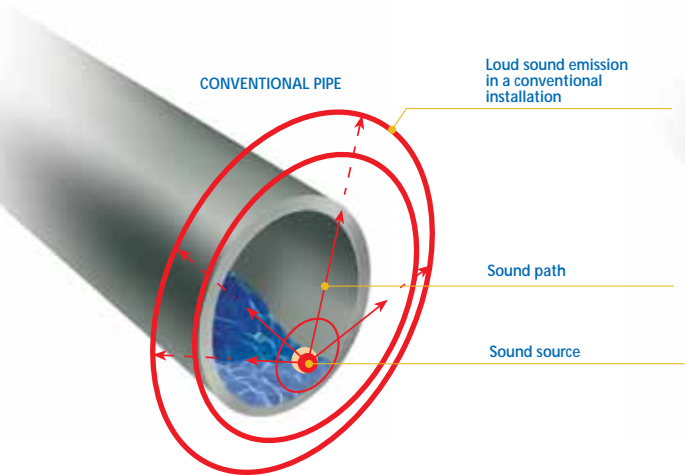


### DEGREE OF SOUND ABSORPTION



## How is noise transmitted?

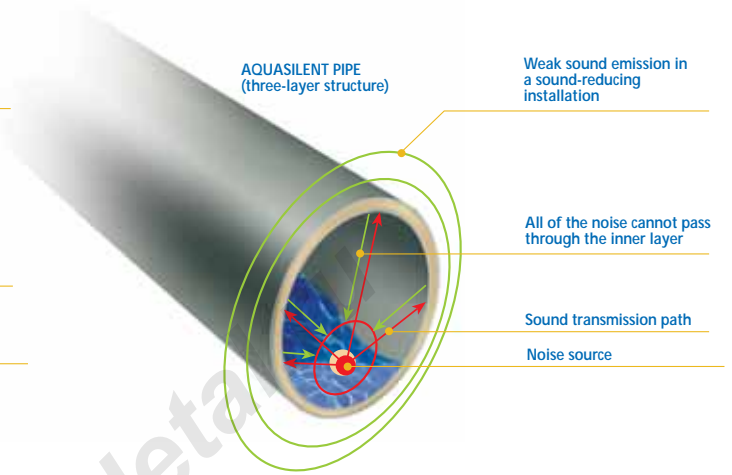
Noise is transmitted by the vibration of a material, which can be a solid, liquid or gas (such as air). The resistance offered by a material to noise depends on its density, and in turn determines the speed of the sound wave. When the medium changes – for example, a sound moves from water to air – part of the energy is absorbed, part is reflected (it bounces) and the rest is transmitted (passed on to the other medium).



## How can noise be avoided?

We can use these basic characteristics to make noise transmission more difficult by preventing the wave from passing (making the wave “bounce”) or by scattering its energy (by damping it).

The AquaSilent three-layer structure for pipes is a solution that combines these characteristics in an optimal manner. The special physical properties of the core material enhance the absorption of the sound wave’s energy and also keep more of the sound inside the pipe. These characteristics – along with the fact that it is more difficult for noise to pass through a multi-layer structure – reduce the transmission of noise outside the installation when it is correctly designed and assembled.



## Advantages of this System

- It is totally compatible with all other traditional products in accordance with current UNE-EN 1329 and UNE-EN 1453 regulations.
- Its seal coupling system absorbs normal expansion in installations.
- It is easy, quick and clean to assemble since no adhesive is required.
- It is made of PVC, and its components can be glued just like traditional products.
- Useful life of 50 years.
- Allows discharges of up to 95°C.
- Allows cutting and bevelling processes like any common PVC pipe.
- Fire-resistant: in the event of a fire, the system is self-extinguishing (it does not continue to burn once the flame is removed). It does not drip, so that there is no risk that the fire will spread to lower floors.
- The PVC used in the manufacture of the pipes and accessories is a chemically inert material.



## Regulations and Certifications

The AquaSilent range of sound-absorbing products has been developed to ensure complete customer satisfaction, and meets all the following regulations:

- UNE-EN 1329 and UNE-EN 1453 regulations: rated diameters, tolerances and lengths of mouths and male ends.
- UNE-EN 1277: “Plastic piping systems. Methods for testing the tightness of joints with elastomer seal”.
- Basic construction regulations: Sound conditions and Technical Construction Code.
- DIN 4109 regulations: “Sound insulation in buildings: requirements and testing”

AQUASILENT products provide maximum benefits for customers. They have been subjected by PIPELIFE to the most demanding quality tests, as is demonstrated by the following certifications.

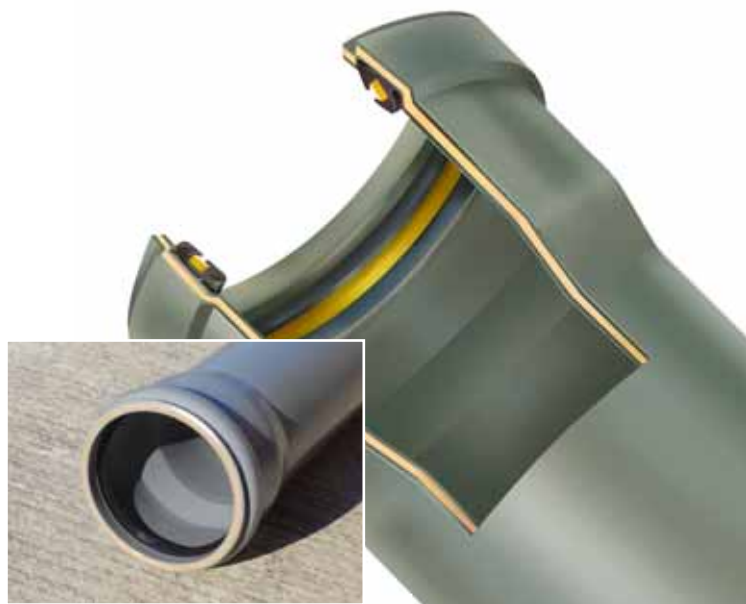


## Coupling process with seal

Elastic mouth seals make it easy to couple the different AquaSilent products. No adhesive is required, just a neutral lubricant to aid insertion. The result is a firm connection between the pipe sections and/or accessories.

Even small evacuation sections can be coupled to the down pipe without any special elements, making it possible to use any type of traditional PVC sanitary fitting.

To make assembly as simple as possible, the AquaSilent range of products has a special marking system to ensure that all coupling processes are carried out correctly.



## Use of marking for coupling

Pipe-accessory or pipe-pipe coupling:

- 1 Insert the pipe up to the mouth mark, which is the blue line that circles the pipe at the male end.
- 2 Pull out the previously inserted pipe until the mouth mark is approximately 10 mm from the crown of the component into which it is being inserted.

Accessory-pipe or accessory-accessory coupling:

- 3 Insert the accessory up to the mounting mark, which is the series of graduated lines that indicate the angle at which it can be mounted.
- 4 To determine the mounting angle, a reference point is needed as a guide. The accessory mouth has an angle mark for this purpose, which makes it easier to orient the accessory.
- 5 Once the accessory has been put in place and correctly oriented, carefully pull it out until the assembly mark is approximately 10 mm from the crown of the component in which it is being inserted.



## Cutting and bevelling

When installation components are joined together, the length of a pipe may have to be shortened. Only pipes can be cut safely, never accessories. If you need to shorten a pipe, bevel the edges of the male parts to match the factory bevel as much as possible using the following procedure:



Cut the pipe perpendicular to the axis. Grip it firmly and preferably with a suitable tool; a fine-tooth angle saw or any other appropriate tool can be used for this task.



After cutting it is essential to smooth all rough edges inside and outside. Be careful not to cut yourself on the rough edges.

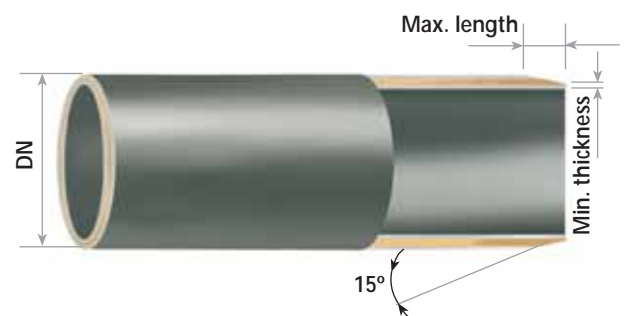


An appropriate tool is required for bevelling (a bevelling or chamfering machine) to give the pipe a 15° slant at the coupling end.

### BEVEL DIMENSIONS FOR AQUASILENT ACCORDING TO ENV 13801

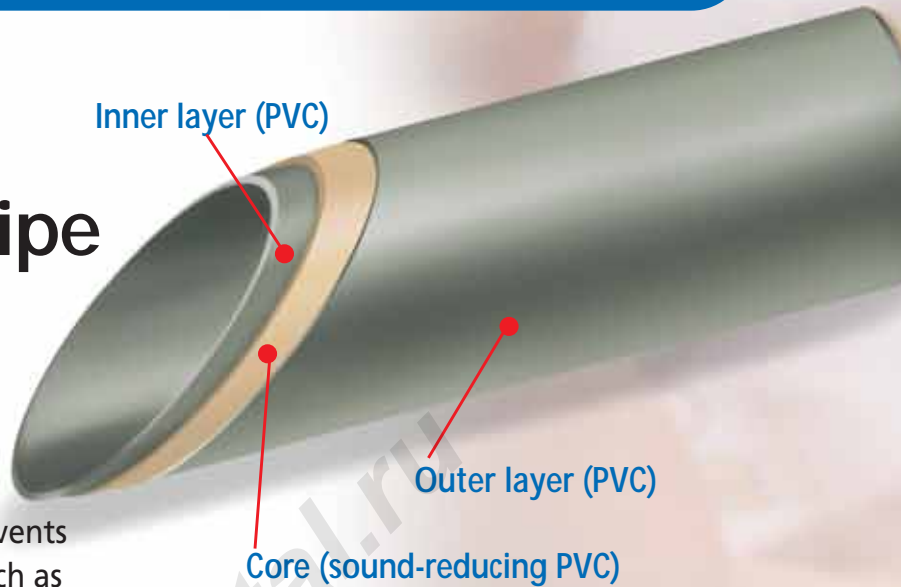
DN	110	125	160
Min. thickness	1.8	1.9	2.1
Max. length	13	14	15

Data in millimetres



# AQUA SILENT

## The three-layer pipe structure



### Outer layer

This is the pipe's protective layer that prevents possible damage from external factors such as impact or the action of chemical agents. It also reinforces the pipe's rigidity.

### Core

This layer is the most important part of AquaSilent pipes. It is made of high-density, mineralised PVC.

Thanks to its physical properties, it provides most of the sound insulation and reduces the transmission of vibrations in the installation.

### Inner layer

This is a completely smooth surface to prevent the formation of scale and to aid evacuation. It is made of PVC that withstands high temperatures and chemical agents.

## Technical Data

AquaSilent products use mineralised PVC with different mineral fillers, depending on component conditions.

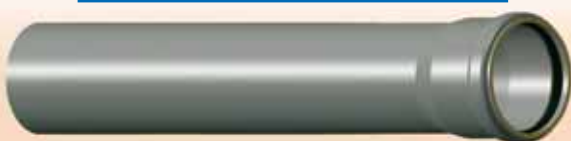
The pipes and accessories have a factory-fitted lip seal to absorb expansion and contraction from changes in temperature and thereby minimise failures in installations.

### MECHANICAL PROPERTIES

Resistance to hot water	According to UNE-EN 1055 standard
	Unlimited resistance time to intermittent discharges of up to 95°C.
Resistance to abrasion	According to DIN 53754 standard

Physical characteristics	Value	Unit
Elasticity	3.600	MPa
Tensile strength	36	MPa
Rigid impact resistance	31	Nm
Vicat point	81,5	°C
Linear expansion coefficient	0,8 * 10 <sup>-4</sup>	°C <sup>-1</sup>

### Range of pipes



110,125 and 160 mm diameters

# Install silence, build quality

## Accessories

AquaSilent accessories help to reduce noise in installations due to their special acoustic properties.

They are made of high-density mineralised PVC similar to the core material used in AquaSilent pipes.

A special formula provides sound-reduction for all installation components, and prevents "sound leaks". This is why AquaSilent installations are quieter.

Bends and branches are also designed with a reinforcement rib at the mouth to increase rigidity and prevent possible damage due to temporary increases in stress in the coupling zone.



### Range of accessories



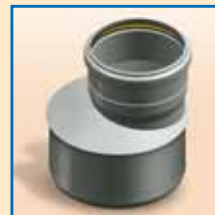
Bends



Branches



Double branches



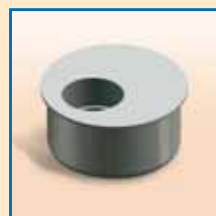
Eccentric reduction



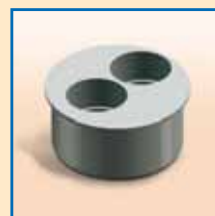
Blind plugs



Couplings



Single reducing plugs



Double reducing plugs



Inspection couplings

# The system

Installation is written under Isophonic clips, Progressive couplings, Secondary ventilation with valves and Silent sections

## Ventilation valves

They reduce the need for ventilation material and prevent bad odours from seeping out of the system.

## Primary ventilation

A duct that extends from the down pipe above the last storey to the roof (above the inhabitable rooms) and is used to evacuate the installation air.

## Isophonic clips

They reduce the transmission of noise and vibrations, and also support the weight of the system.

## Progressive couplings

They increase the effective capacity of down pipes and reduce the level of noise produced by the system.

## Secondary ventilation with valves

Secondary ventilation is mandatory in buildings of more than 5 storeys and helps evacuate air from the system; pressure balancing at the base is achieved with valves.

## Firebreak couplings

An effective way to impede the spread of fire between floors or between rooms on the same floor.

## Silent sections

They reduce the force of water and the vibrations caused by its impact, as well as notably reduce noise and increase the safety of the system.

## Visible drainage lines in inhabited zones

Although these parts are not down pipes, they are also considered parts of the system.



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Pipelife Hispania, S.A.

web: [www.pipelife.es](http://www.pipelife.es)





# ПОЛИПРОПИЛЕНОВАЯ КАНАЛИЗАЦИЯ

## ОГЛАВЛЕНИЕ

	стр.
Материал канализации	2
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## Материал

Трубы и фасонные изделия для соединения системы внутренней канализации ПАЙПЛАЙФ изготавливаются из Сополимерного полипропилена, в отличие от Кополимерного у некоторых других производителей. Этот материал придает трубам большую устойчивость к высоким и низким температурам, а также к различным химическим средствам. В тоже время, это одна из самых легких канализационных систем, существующих на рынке.

## Механические свойства.

Высокая устойчивость к механическим воздействиям и ударопрочность делают эту систему незаменимой при монтаже в условиях с пониженной температурой, и даже на морозе. Важную роль эти параметры могут сыграть и во время транспортировки труб.

## Температурные свойства.

Полипропиленовые канализационные трубы ПАЙПЛАЙФ выдерживают длительное влияние высокой температуры (при протекании горячей воды, например), что находит свое отражение при преимущественном их применении в системах сточных вод химчисток или предприятий пищевой промышленности.

## Химические свойства.

Устойчивость на воздействие кислот, щелочей и растворителей позволяет широко применять трубы ПАЙПЛАЙФ в химической и фармацевтической промышленности, а также на бензозаправочных станциях и автомастерских.

## Уплотнительная система.

Благодаря применению упругой специальной системе уплотнений, трубы ПАЙПЛАЙФ легко и безопасно монтируются и предохраняют от протечек.

Прокладка закрепляется "навечно" в заводских условиях, поэтому полностью исключается возможность ее повреждения при монтаже.



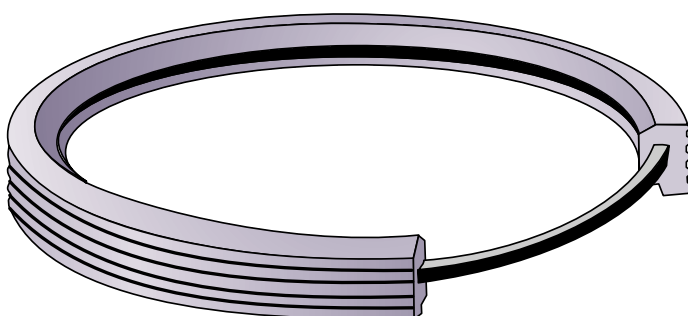
# ДВУХГУБНАЯ УПЛОТНИТЕЛЬНАЯ ПРОКЛАДКА



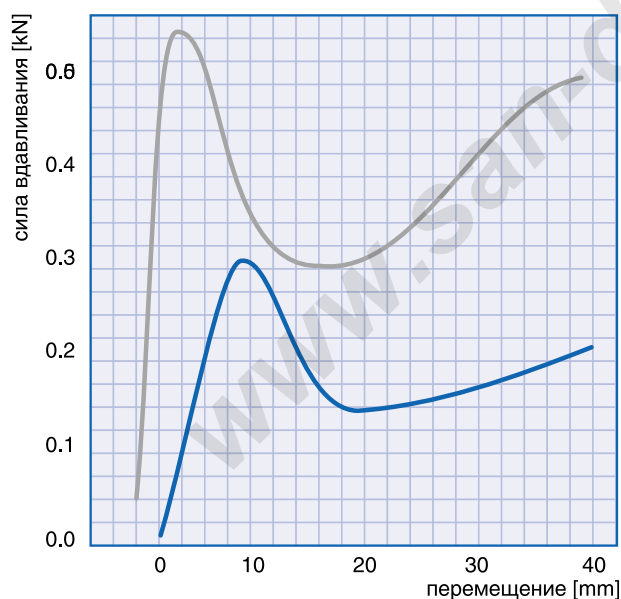
Двухгубная уплотнительная прокладка с укрепляющим кольцом является проверенным характерным элементом системы внутренней канализации фирмы PipeLife.

Благодаря избранной конструкции и специальным материалам получено

100% уплотнение соединений, высокая прочность, а также более лёгкий монтаж и демонтаж (смотри график) по сравнению с традиционным методом. Достигнуто также значительное понижение уровня громкости работы всей системы.



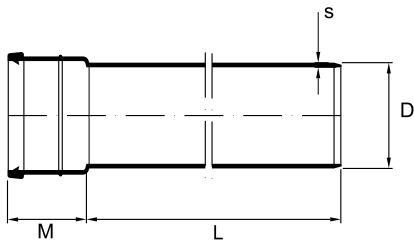
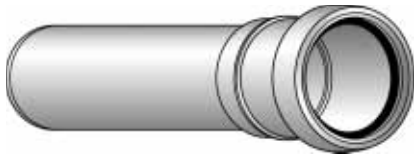
**Двухгубная уплотнительная прокладка с укрепляющим кольцом.  
Сравнение сил, необходимых для монтажа трубы 110**



— губная уплотнительная прокладка - традиционная  
— двухгубная уплотнительная прокладка с укрепляющим кольцом

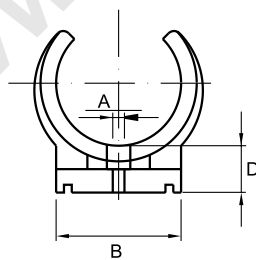


## ПП трубы с раструбом



PipeLife nr.	nr.	D, mm	L, mm	s, mm	M, mm
34003221	32	250	1,8	41	
34003241	32	500	1,8	41	
34003261	32	1000	1,8	41	
34003281	32	2000	1,8	41	
34004021	40	250	1,8	48	
34004041	40	500	1,8	48	
34004061	40	1000	1,8	48	
34004081	40	2000	1,8	48	
34005021	50	250	1,8	45	
34005041	50	500	1,8	45	
34005061	50	1000	1,8	45	
34005081	50	2000	1,8	45	
34007522	75	250	2,7	59	
34007542	75	500	2,7	59	
34007562	75	1000	2,7	59	
34007582	75	2000	2,7	59	
			<b>S14</b>	<b>S20</b>	
34009322	110	250	3,8	3,0	87
34009342	110	500	3,8	3,0	87
34009362	110	1000	3,8	3,0	87
34009382	110	2000	3,8	3,0	87

## Фиксаторы для труб



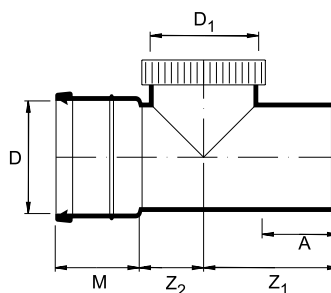
PipeLife nr.	Dim, mm	A, mm	B, mm	C, mm	D, mm
34503201	32	6	32	10	12
34505001	50	6	32	10	17
34507502	75	8	41	15	20
34509302	110	8	59	20	20



## ПП ревизии с крышкой

PipeLife, nr. D, mm D1, mm Z1, mm Z2, mm M, mm A, mm

34485001	50	50	94	31	45	65
34487502	75	75	109	45	50	64
34489302	110	110	157	62	61	84

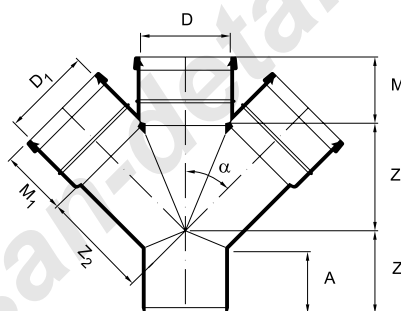


## ПП ревизии с крышкой

PipeLife, nr. a° D, mm D1, mm Z1, mm Z2, mm Z3, mm M, mm M1, mm A, mm

180 128*	45	75	75	87	140	140	50	50	65
180 208*	88	75	75	115	68	68	50	50	66
34269372	45	110	110	98	140	140	61	61	70
34269392	88	110	110	142	66	66	61	61	61

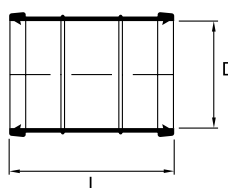
\* - по заказу



## ПП двойные раструбы

PipeLife, nr. D, mm L, mm

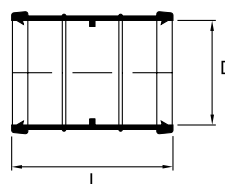
34313201	32	85
34314001	40	98
34315001	50	94
34317502	75	103
34319302	110	125

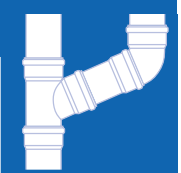


## ПП подвижные муфты

PipeLife, nr. D, mm L, mm

34303201	32	85
34304001	40	98
34305001	50	94
34307502	75	103
34309302	110	125



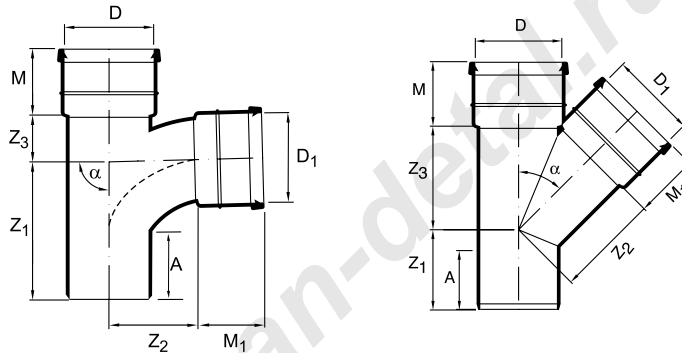


## ПП тройники

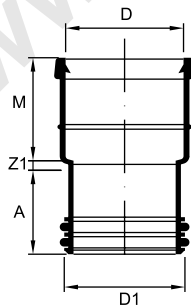


PipeLife, nr.	a°	D, mm	D1, mm	Z1, mm	Z2, mm	Z3, mm	A, mm	M, mm	M1, mm
34203271	45	32	32	53	40	40	46	42	42
34223291	88.5	32	32	64	22	22	45	42	42
34204071	45	40	40	56	48	48	43	46	46
34224091	88.5	40	40	69	24	24	48	46	46
34205071	45	50	50	60	68	68	49	46	46
34215081	88.5	50	50	73	30	30	47	46	46
34225091	67	50	50						
34207542	45	75	50	55	87	85	57	50	45
34227532	88.5	75	50	81	40	30	54	50	45
34207572	45	75	75	70	100	100	53	50	50
34217582	67	75	75						
34227592	88.5	75	75	116	78	40	51	50	50
34209312	45	110	50	80	114	106	100	62	43
34219322	67	110	50						
34229332	88.5	110	50	91	60	35	4	63	43
34209342	45	110	75	68	126	20	70	62	50
34229362	88.5	110	75	127	100	40	62	62	50
34205071	67	110	110						
34215081	45	110	110	92	135	135	69	63	63
34225091	88.5	110	110	141	91	60	62	62	63

\*- по заказу



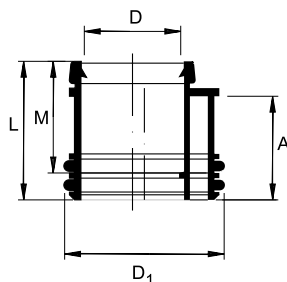
## ПП ремонтные муфты



PipeLife, nr.	D, mm	D1*, mm	Z1, mm	M, mm	A, mm
180 553	50	45	3	45	37
170 554	75	69	10	50	45
170 556	110	101	13	67	55

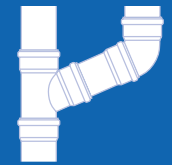
\*- внутренний диаметр

## ПП универсальный переход



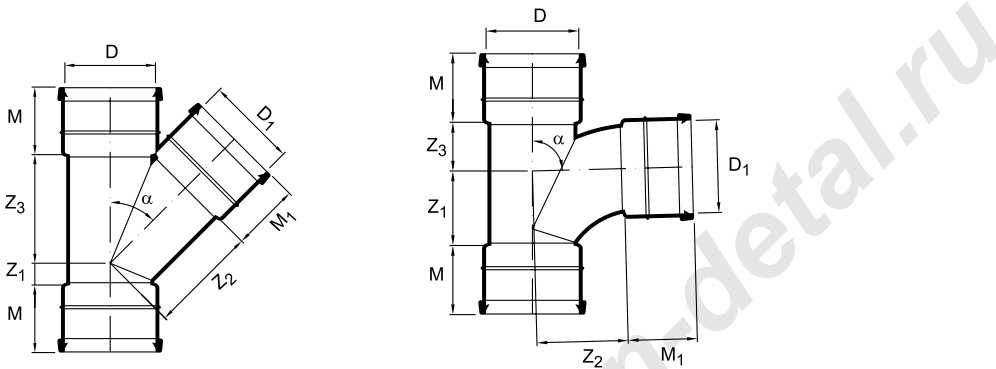
PipeLife, nr.	Nom. dia.	D, mm	D1*, mm	M, mm	A, mm	L, mm
180 572	50/32	32	45	54	42	56
180 574	75/32	32	69	58	47	60
170 575	75/50	50	69	50	47	62
170 577	110/50	50	101	51	50	68
170 578	110/75	75	101	54	50	70

\*- внутренний диаметр



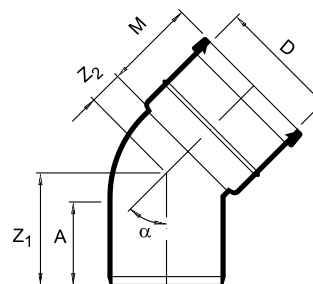
## ПП тройники с тремя муфтами

PipeLife, nr. ao	D, mm	D1, mm	Z1, mm	Z2, mm	Z3, mm	M, mm	M1, mm
182 001	45	32	32	13	41	42	42
182 002	45	40	40	17	53	53	42
182 004	45	50	50	13	70	70	45
172 007	45	75	50	8	83	78	49
172 008	45	75	75	21	100	100	50
172 016	45	110	50	-3	106	106	61
172 017	45	110	75	10	120	128	61
172 019	45	110	110	30	137	137	61
182 081	88,5	32	32	22	22	23	42
182 082	88,5	40	40	27	28	28	42
182 084	88,5	50	50	33	34	34	45
172 087	88,5	75	50	32	46	34	49
172 088*	88,5	75	75	66	80	40	50
172 096	88,5	110	50	38	62	40	61
172 097*	88,5	110	75	70	101	40	61
172 098*	88,5	110	110	84	91	60	61



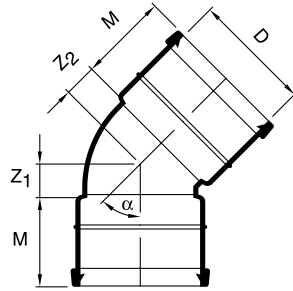
## ПП отводы

PipeLife, nr. a°	D, mm	Z1, mm	Z2, mm	M, mm	A, mm
34103211	15	32	46	6	41
34103231	30	32	50	10	41
34103241	45	32	53	13	41
34103261	67.5	32	58	17	41
34103291	88.5	32	61	25	41
34104011	15	40	51	6	48
34104031	30	40	52	10	46
34104041	45	40	55	14	45
34104061	67.5	40	60	20	47
34104091	88.5	40	66	28	46
34105011	15	50	50	9	45
34105031	30	50	54	12	45
34105041	45	50	57	16	45
34105061	67.5	50	64	23	45
34105091	88.5	50	74	29	42
34107512	15	75	60	11	50
34107532	30	75	61	18	50
34107542	45	75	70	20	50
34107562	67.5	75	80	31	50
34107592	88.5	75	92	43	50
34109312	15	110	75	8	65
34109332	30	110	80	18	61
34109342	45	110	90	26	60
34109362	67.5	110	107	45	67
34109392	88.5	110	123	56	61





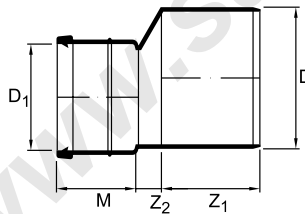
## ПП отводы с двумя раструбами



PipeLife, nr.	ao	D, mm	Z1=Z2, mm	M, mm
182 301	15	32	8	42
172 304	15	75	11	50
172 306	15	110		
182 321	30	32	10	41
172 324	30	75	15	50
172 326	30	110		
182 331	45	32	13	42
182 332	45	40	17	42
182 333	45	50	16	45
172 334	45	75	21	50
172 336	45	110	28	61
182 361	88,5	32	23	41
182 362	88,5	40	27	42
182 363	88,5	50	30	45
182 383*	88,5	50		
172 364	88,5	75	44	50
172 384*	88,5	75		
172 366	88,5	110	64	61
172 386*	88,5	110		

\* - плавный

## ПП эксцентрические переходы раструб-труба



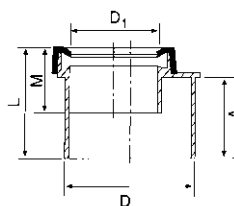
PipeLife nr.	D, mm	D1, mm	Z1, mm	Z2, mm	M, mm
34444071	40	32	45	12	41
34445051	50	32	47	16	41
33445071	50	40	45	14	48
34447531	75	32	85	30	41
34447551	75	40	52	28	47
34447571	75	50	53	22	45
34449352	110	50	67	40	42
34449372	110	75	64	29	49





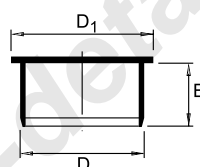
## ПП короткие переходники

PipeLife nr.	D, mm	D1, mm	M, mm	A, mm	L, mm
180 580	40	32	35	45	61
180 581	50	32	35	47	63
180 582	50	40	38	46	64
180 584	75	40	38	51	68
170 585	75	50	41	51	69
170 588	110	40	38	59	77
170 589	110	50	41	59	78
170 590	110	75	47	59	79



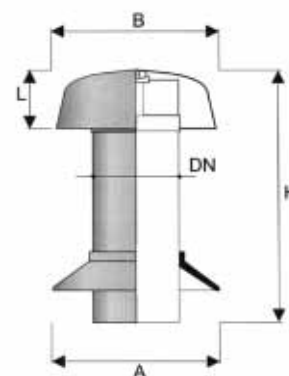
## ПП заглушка для раструба

PipeLife nr.	D, mm	D1, mm	B, mm
34553201	32	38	17
34554001	40	45	22
34555001	50	55	23
34557502	75	87	25
34559302	110	120	31

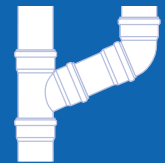


## Выход вентиляционной трубы

PipeLife nr.	D, mm	A, mm	B, mm	L, mm	H, mm
34729304	110	203	205	80	1000



\* - предотвращает замерзание стояка под крышей



## Регулируемые раструбы отводы



PipeLife nr.	D, mm	a°
182 371	32	0...90°
182 372	40	0...90°
182 373	50	0...90°
176 375	75	0...90°
176 376	110	0...90°

## Раструбные тройники с регулируемым отводом



PipeLife nr.	D, mm	d, mm	a°
176 380	32	32	45°...90°
176 381	40	40	45°...90°
176 382	50	50	45°...90°
176 386	75	75	45°...90°
176 388	110	110	45°...90°

## ПП прямой водяной затвор



PipeLife nr.	d, mm	D, mm	H, mm	M, mm	A, mm
180 628	32	72	196	41	36



## Подключение унитаза

1. Труба с одним раструбом  $\varnothing 110$
2. Тройник  $45^\circ \varnothing 110/110$
3. Отвод  $45^\circ \varnothing 110$
4. Труба с одним раструбом  $\varnothing 110$
5. Отвод  $15^\circ \varnothing 110$
6. Отвод  $87^\circ \varnothing 110$
7. Труба с одним раструбом  $\varnothing 110$



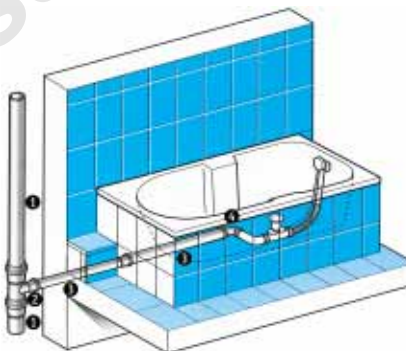
## Подключение умывальника

1. Труба с одним раструбом  $\varnothing 110$
2. Тройник  $87^\circ \varnothing 110/110$
3. Труба с одним раструбом  $\varnothing 110$
4. Тройник  $45^\circ \varnothing 110/50$
5. Отвод  $45^\circ \varnothing 110$
6. Труба с одним раструбом  $\varnothing 50$
7. Сифонный отвод  $\varnothing 50/30$



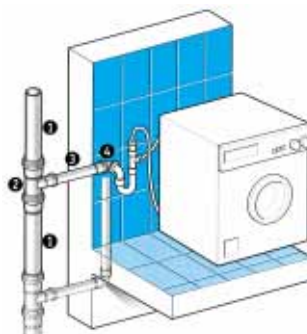
## Подключение ванны

1. Труба с одним раструбом  $\varnothing 110$
2. Тройник  $87^\circ \varnothing 110/50$
3. Труба с одним раструбом  $\varnothing 50$
4. Сифонный отвод  $\varnothing 50$



## Подключение стиральной/посудомоечной машины

1. Труба с одним раструбом  $\varnothing 110$
2. Тройник  $87^\circ \varnothing 110/50$
3. Труба с одним раструбом DN 50
4. Отвод  $\varnothing 50$





**СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р  
ГОССТАНДАРТ РОССИИ**

**СЕРТИФИКАТ СООТВЕТСТВИЯ**

№ ROCC PL. CH 01. B 38754

Срок действия с 09.04.2001 по 08.04.2003

№4413772 \*

ОРГАН ПО СЕРТИФИКАЦИИ ROCC CH.0001.11CH01  
**SGS INTERNATIONAL CERTIFICATION SERVICES S.A.**  
**(СЖС ИНТЕРНЭШНЛ СЕРТИФИКЭЙШН СЕРВИСИЗ С.А.)**  
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Москва, 113114, Шлюзовая набережная, 6, стр.1-2, Ривер Плейс, тел. (095) 931 9955 факс: (095) 931 9954

**ПРОДУКЦИЯ**  
ФАСОННЫЕ ЧАСТИ ПОЛИПРОПИЛЕНОВЫЕ ДЛЯ ВНУТРЕННЕЙ КАНАЛИЗАЦИИ

СЕРИЙНЫЙ ВЫПУСК

КОД ОК 005 (ОКП):


**СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ**  
ГОСТ 228

ИЗГОТ  
МАНУ Р  
84-111

СЕРТИ  
PIPELIFE  
и. Spiral

НА ОС  
ПРОТОКО  
ДЕКЛАРА





**ГОСУДАРСТВЕННАЯ САНИТАРНО-ЭПИДЕМИОЛОГИЧЕСКАЯ СЛУЖБА  
РОССИЙСКОЙ ФЕДЕРАЦИИ**  
**ГЛАВНЫЙ ГОСУДАРСТВЕННЫЙ САНИТАРНЫЙ ВРАЧ  
ПО СЕВЕРО-ЗАПАДНОМУ РЕГИОНУ НА ТРАНСПОРТЕ**  
(наименование территории, ведомства)

**САНИТАРНО-ЭПИДЕМИОЛОГИЧЕСКОЕ ЗАКЛЮЧЕНИЕ**

№ 79.02.03.229.П.001811.08.01 от 07.08.2001 г.

Настоящим санитарно-эпидемиологическим заключением удостоверяется, что производство, применение (использование) и реализация новых видов продукции, продукция, ввозимая на территорию Российской Федерации  
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изготовленная в соответствии  
Сертификат системы качества от 30.07.01г.

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Инструкция по гигиенической оценке полимерных материалов, предназначенных для применения в строительстве и производстве мебели №6035 А-91

Организация — изготовитель  
КОНЦЕРН PIPELIFE INTERNATIONAL GMBH (Эстония, Швеция, Польша, Норвегия, Финляндия, Германия) Австрия  
Получатель санитарно-эпидемиологического заключения  
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