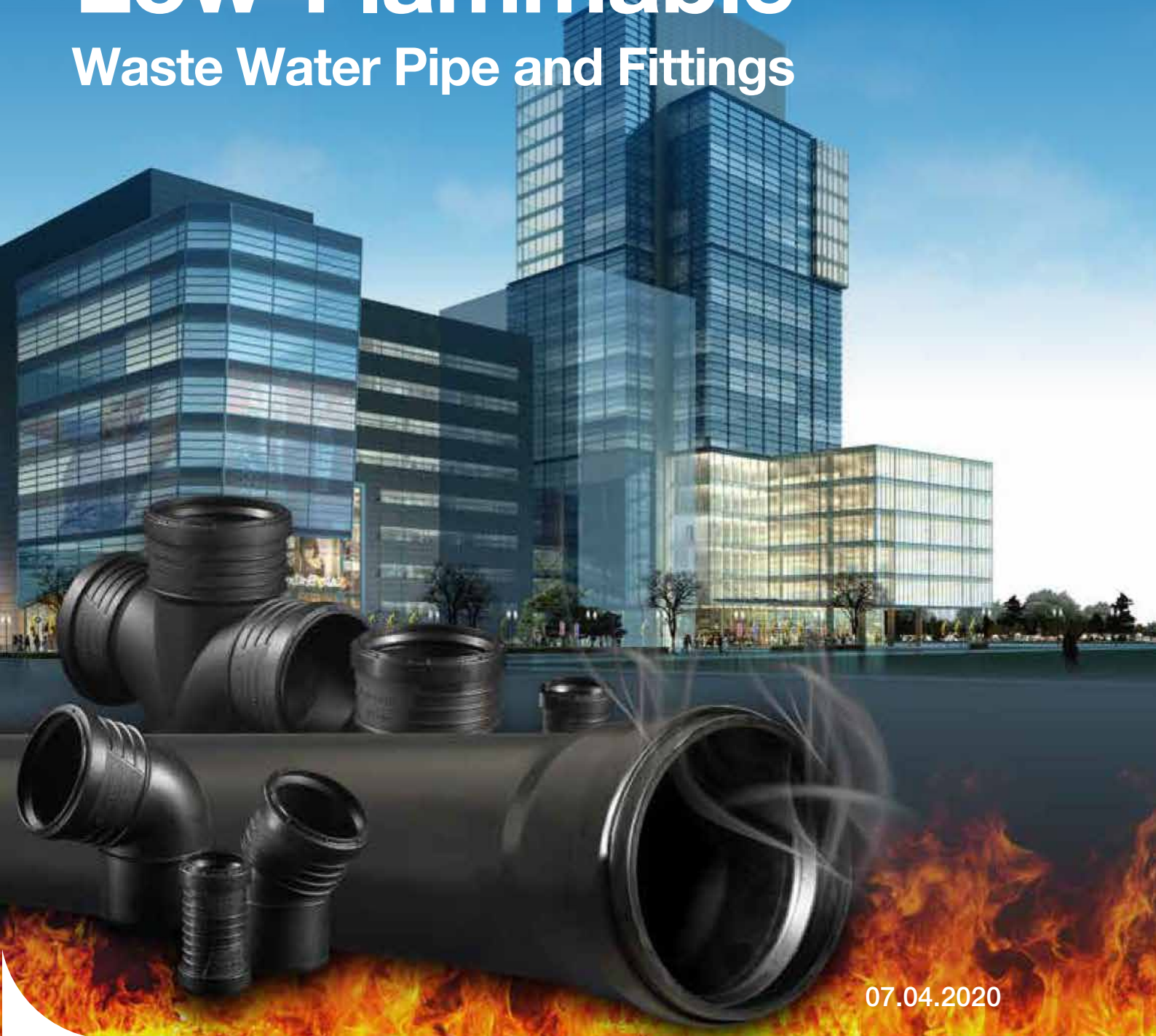


WAVIN SiTech B1
Product Guide

Low Noise and Low-Flammable

Waste Water Pipe and Fittings



07.04.2020

wavin





Wavin is one of the leading companies in the plastic pipe industry in Turkey. Our company offers a wide range of high-quality pipe and fittings system solutions for building and infrastructure. Our company, which has a history of more than half a century, started production in 1971 in Adana. Pilsa Plastik A.Ş. was purchased by Wavin B.V, the largest European company in its own field in the Netherlands in 2008.

In 2012, all Wavin companies joined the Mexichem family which is South America's giant petrochemicals and raw materials producer. Mexichem announced its new name as ORBIA in 2019. ORBIA, with its new changing business structure, provides professional support to its customers with its products and services in 5 main business lines: Building & Infrastructure, Flour, Datacom, Precision Agriculture and Polymer Solutions. With the new structuring of ORBIA, its main mission is to advance life around the world.

In 2019, with the renewed business structure of ORBIA, building & infrastructure business line was started to represent by WAVIN, a single and strong brand across the globe. WAVIN operates in more than 40 countries around the world in 4 main regions: Europe-Middle East-Africa, Asia-Pacific, Latin America and USA-Canada with 12.000 employees.

Wavin is now a global leader in the supply of plastic pipe systems and solutions for both above and below ground applications in projects around the world. Since the 1950s, we have built an unrivalled reputation for continuous innovation, intelligent problem-solving, dedicated technical support and the highest standards.

Wavin Turkey offers traditional products such as PPR-C clean water, PVC wastewater as well as the innovative products such as Tigris Press-fit systems, SiTech+ low noise pipes, Qickstream siphonic rainwater drainage systems, Q-Bic Plus infiltration systems, Tegra plastic manholes etc. to the sector. Wavin Academy which is the first training centre of the sector was opened in 2014 within our factory in Adana, Tens of thousands of visitors from various levels of the mechanical installation sector have been able to increase their expertise by attending training at Wavin Academy since 2014. Our company provides fast service with Adana, Istanbul, Ankara and Izmir offices, distribution centres located in Istanbul and Adana and wide dealers network. In addition to our sales staff, our expert engineers and technical personnel support our customers for the projects.

To get more information about our company and products, please visit our website www.wavin.com.tr and follow us on our social media accounts.

Wavin SiTech B1

System Description

Polyvinyl Chloride (PVC) based Wavin SiTech B1 pipes are used in waste water systems. The system provides advanced fire resistance, low sound level and easy installation. With the capabilities of flexible connection and tight fit, SiTech B1 provides a complete solution for waste water drainage in buildings. Life quality and comfort is a significant issue in building design. Reducing of noise in water drainage. The

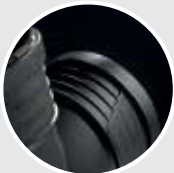
system provides huge comfort both in living and working environments. Wavin SiTech B1 meets today's construction and mechanical application requirements and fulfills customer requests for more comfort and quality. SiTech B1 is designed to meet the requirements of fire code no. 15316.

System Advantages



Fire Resistance

SiTech B1 can be used in all types of waste water projects, including high rise buildings, due to its fire retardant behavior during a fire.



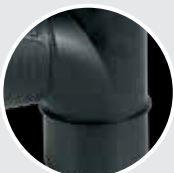
Low Noise

SiTech B1 is a high performance waste water system, reducing the acoustic values of the water flow. The noise coming from the installation is minimized thanks to its special formula.



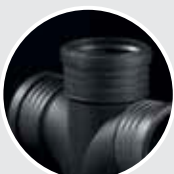
Angular Rotation

There are angular marks for 15 and 45 degrees on fittings. SiTech B1 fittings are rotated and installed easily due to the angular marks on them.



Checking The Installation Depth

Dashes on spigot ends of fittings allow pipe to fit into the joint exactly. This dash also indicates to the pipe fitter the 10 mm distance required for thermal expansion of long pipes.



Black Color

The black color contributes to resistance and durability of Sitech B1. Due to enhanced UV resistance to the color black, the system is also highly convenient for external applications. As an addition, the black color furnishes the system with a more aesthetic and professional look.

Application

Wavin SiTech B1 meets all standards specified for waste water discharging systems (EN 1451-1), including noise reduction and fire resistance (EN 13501-1). The level of noise emitted by SiTech B1 was measured by Stuttgart Fraunhofer Institute (DIN 4109, VDI 4100, EN 14366).

Table 1: Fraunhofer noise level measurement results for SiTech

Result:	Wastewater installation system consisting of straight plastic pipes "SiTech B1" (manufacturer: Wavin Turkey) and plastic fittings "SiTech+" (manufacturer: Wavin Italy) with acoustic pipe clamps "Bismat 1000" (made by Walraven GmbH)	Flow rate [l/s]			
		0.5	1.0	2.0	4.0
	Installation sound level $L_{Aeq,T}$ [dB(A)] according to DIN 4109 measured in the basement test-room UG front	43	47	49	52
	Installation sound level $L_{Aeq,T}$ [dB(A)] according to DIN 4109 measured in the basement test-room UG rear	10	13	17	20
	Installation sound level $L_{Aeq,T}$ [dB(A)] according to VDI 4100 measured in the basement test-room UG front	41	45	47	50
	Installation sound level $L_{Aeq,T}$ [dB(A)] according to VDI 4100 measured in the basement test-room UG rear	<10	10	14	17
	Airborne sound pressure level $L_{p,A}$ [dB(A)] according to EN 14366 for the basement test-room UG front	43	47	49	52
	Structure-borne sound characteristic level $L_{w,A}$ [dB(A)] according to EN 14366 for the basement test-room UG rear	<10	<10	13	16

Wavin SiTech B1 is an ideal solution for installation in high rise buildings and in critical noise places, such as apartment buildings, hotels, hospitals, nursing homes and libraries.

Wavin SiTech B1 can be used for water discharge at temperatures up to 75-80 °C for a short time, and can be used up to 55 °C. Continuously in cold weather, it's resistant up to 0 °C.

The system is available in the following diameters:

- 50 mm
- 75 mm
- 110 mm
- 125 mm
- 160 mm
- 200 mm
- 250 mm

You can contact a Wavin Pilsa representative for any questions on the application.

Fire Regulation

With fire regulation no. 15316, issued in 2007 for the first time in Turkey, excluding branch pipes used in wet areas, it has been decreed that installation pipes with a diameter over 70 mm in high rise buildings must be made of low flammable material as a minimum requirement.

With the modification to the regulation in 2009, a high rise building is described as a building with a height of over 21.50 m and structural height over 30.50 m. Structural height includes basement floors in total height. As per the modification on page 44 and item no. 7 of official gazette no. 29411, issued on July 9, 2015; the code allows for the use of normal flammable material if fire collar is used.

According to test measurements of International Efectis Labs, the fire class of Sitech B1 pipes has been identified as B S1 d0 as per EN 13501-1 standard and EN 13823:2014 test method.

(See page 15)

Table2:

Flammability Classes of Building Materials Per TS EN 13501-1

Flammability Classes of Building Materials Excluding Tiles	
Material Flammability	TS EN 13501-1 ⁽²⁾
No flammability	A1
Low Inflammability	A2 - s1, d0
Low Flammability	B, C, s1, d0
	A2 - s2, d0
	A2, B, C - s3, d0
	A2, B, C - s1, d1 A2, B, C - s1, d2
(Minimum)	A2, B, C - s3, d2
Normal Flammability	D - s1, d0 D - s2, d0 D - s3, d0 E
	D - s1, d2 D - s2, d2 D - s3, d2
(Minimum)	E, d2
High Flammability	F
Flammability Classes For Tiling Materials	
Material Flammability	According to TS EN 13501-1 ⁽²⁾
No Flammability	A1 _{FL}
Low Inflammability	A2 _{FL} - s1
Low Flammability	B _{FL} - s1
(Minimum)	C _{FL} - s1
Normal Flammability	A2 _{FL} - s2
	B _{FL} - s2
	C _{FL} - s2
	D _{FL} - s1
	D _{FL} - s2
(Minimum)	E _{FL}
High Flammability	F _{FL}
Flammability Classes for Roofing Products	

Special Fittings

The Wavin SiTech+ portfolio includes specialized fittings for easier and more efficient installation and use, particularly in areas where space is limited.

Swept branches, as compared to sharp angle fittings, allow water to run more smoothly while reducing overall noise levels, improve the ventilation and increase the flow rate.

The new design of access pipes makes inspection easier.



Expansion Socket



Access piece



Swept Branch



Double Swept Branch



Shower Branch



Corner Branch

Technical Specifications

Technical Specifications:

- ▶ PVC based special formula pipes designed for low noise levels
- ▶ Low flammable raw material
- ▶ Socketed connections and elastomer (SBR) gaskets for safe and easy assembly

Table3: Information per diameter of SiTech B1

Diameter Do1=Ds2	Thickness S	Joint Size P2	Density (gr/cm3)
50	3.0	50	1.7
75	3.0	60	1.7
110	3.8	70	1.7
125	4.3	80	1.6
160	5.5	100	1.6
200	6.2	120	1.6
250	6.2	130	1.6

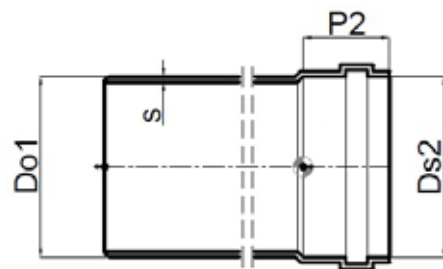


Table4: SiTech B1 product specifications and standards.

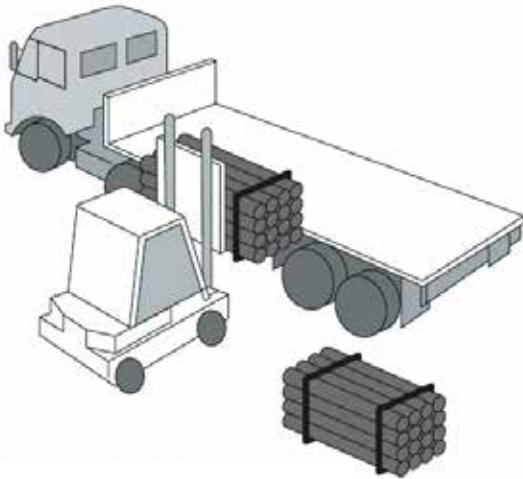
Specification	Reference Value Standards	
Elongation 150°C - 30 min - in the air	≤ 5%	TS EN ISO 2505
Dichloromethane Resis- tance 15°C - 30 min	No Deformation	TS EN 580
Fire Behavior	Efectis: EN 13823: C S3 d0 TSE::	TS EN 13501-1
Density (23°C)	Pipe 1,6-1,7 g/cm3 Attachment: 1.5	TS EN ISO 1183-1
Operating Temperature	Long term 55° Short term 70°-80°C	
Linear Expansion 20°C - 80°C	0,08 mm/(m.K)	DIN 53752
Water Tightness 23°C, 15 min, 0,5 bar	No leak	ISO 13254
Temperature Cycling 93°C/15°C"	No leak	ISO 13257
Ring Stiffness 23°C, %3 deviation	> 6 kN/m2	TS EN ISO 9969
Impact Resistance 0°C	TIR ≤ 0	TS EN 744
Vicat Softening Temperature	min 79° C	TS EN 727
Noise Level (*)	17 dbA 16 dbA 20 dbA	VDI 4100 EN 14366 DIN 4109



(*) According to Fraunhofer test results for 4l/s flowrate.standards.

Handling

- ⤵ Handle pipes and fittings with care. Excessive scratching or impact stress on the pipe may damage the external structure or affect the seal properties.
- ⤵ Loose pipes need to be unloaded by hand. When pipes are inserted one inside the other, always remove the inside pipe first.
- ⤵ When bundles of pipes are unloaded by fork truck, we recommend the wrap nylon sheaths around metal forks or use plastic forks. Metal forks, hooks and chains may not come in contact with the pipes. Do not use forks with an extension.
- ⤵ If the loading or unloading is carried out with a crane and excavator arms, the pipes must be raised in the central area with a sling of adequate width.



Unloading strapped pallets.

Transport

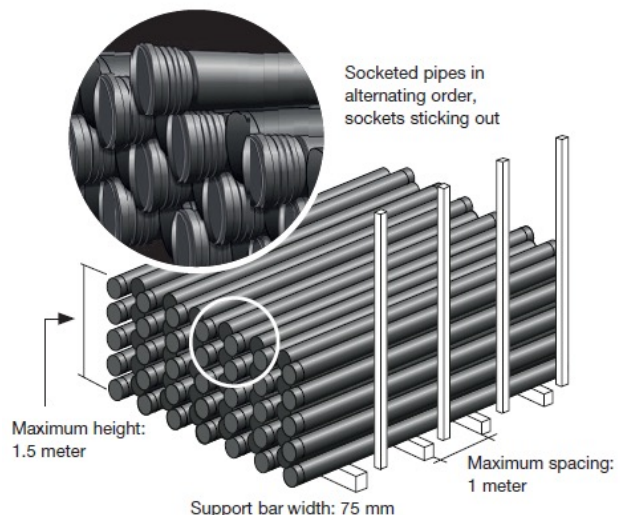
- ⤵ Wavin SiTech+ pipes, when no longer packed in original packaging, must be stored fully supported over their total length on a clean surface during transport.
- ⤵ Bending of the pipes should be avoided.
- ⤵ Impact stress on pipe and fittings must be prevented.



Transport of loose Wavin pipes.

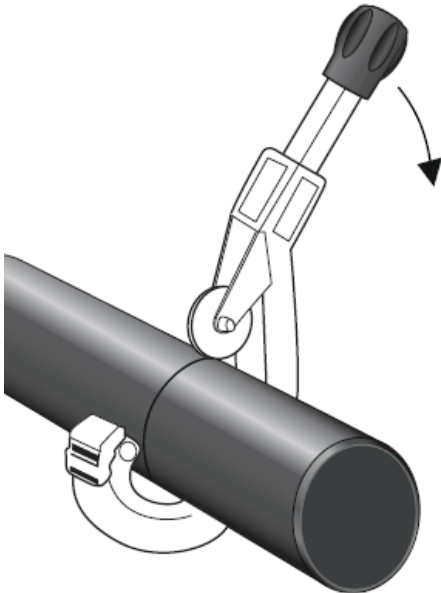
Storage

- ⤵ Always store pipes on a flat surface.
- ⤵ Pallets must be stored at a maximum height of 1.5 m without additional supports or side barriers.
- ⤵ Loose pipes:
 - must have at least 2 side supports equally spread over the pipe length,
 - maximum height of storing loose pipes is 1.5 m.,
 - the ideal situation is to support the loose pipes along their whole length. If this is not possible, place wooden supports of at least 75 mm wide under the pipe at a distance of maximum 1 m.,
 - stack the different sizes of pipes separately or, if this is not possible, stack them with the largest diameters on the bottom,
 - socketed pipes should be stacked in an alternating order to secure support over the full pipe length (see picture).
- ⤵ Fittings are supplied in carton boxes and must be stored indoors. Deformation resulting from excessive loads on the fittings should always be avoided.
- ⤵ Store lubricant in a cool place, away from heat sources or direct sunlight.



Cutting Pipes

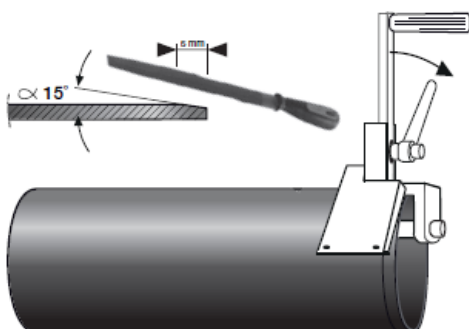
- 1) Cut the pipe cleanly at a right angles to its axis. Whenever possible, use a pipe cutter.



- 2) De-burr the cut end with a scraper.

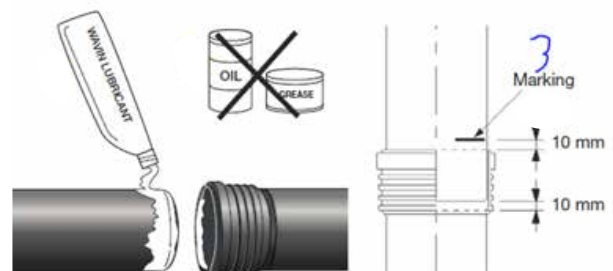


- 3) Chamfer the pipe end 5 mm over the length of the pipe, at 15°.



Ring seal / push-fit jointing

1. Ensure the pipe cut is chamfered.
2. Check that the sealing ring is properly seated in the seal groove of the fitting or pipe.
3. Ensure all components to be joined are dry, clean and free from dirt or dust. Ensure that there are no deep scratches on the pipe or fitting spigot as these may prevent the sealing ring from forming a watertight seal.
4. Lubricate evenly around the pipe or fitting spigot using Wavin lubricant. Do not use oils or greases.
5. Correctly align the components to be joined.
6. Push the pipe or fitting spigot fully into the socket. When inserting a pipe length of 2 metres or more, mark the pipe spigot at the socket face and then withdraw it by 10 mm to allow for thermal expansion.
7. Make a subsequent check to ensure that the expansion gap is not lost during further installation work.



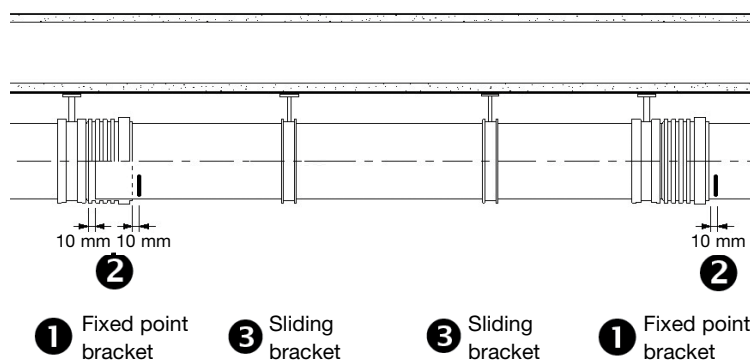
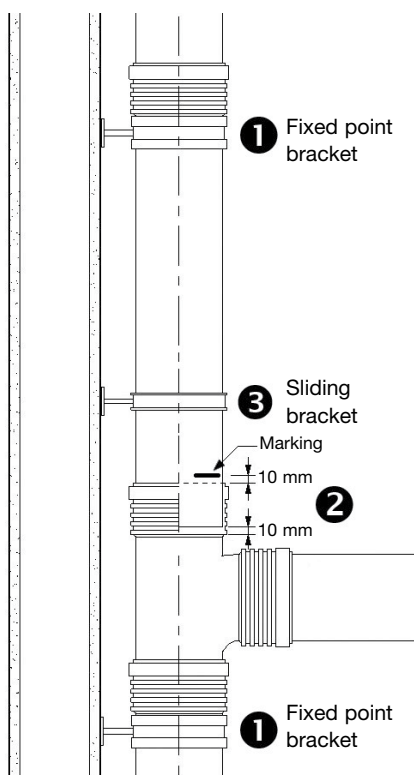
Installations

Pipe supports

- Use only rubber lined pipe clamps to minimise structure borne sound.
- Pipes should be supported at the following maximum distances:

OD (mm)	Maximum Supporting Distance	
	Vertical (m)	Horizontal (m)
50	1.50	0.75
75	2.00	1.10
90	2.00	1.35
110	2.00	1.65
125	2.00	1.85
160	2.00	2.40
200	2.00	3.00

- Ensure the pipe system is installed free of tension. Fixed-point brackets prevent pipe movement after the screws are tightened. After tightening the screws of a sliding bracket the pipe can still be moved through the bracket.
- For every pipe of length of 2 metre or more, place a fixed-point bracket directly next to the socket, as shown at point⁽¹⁾.
- For vertical pipes, the fixed-point bracket always needs to be installed at the top side of the pipe underneath the socket. Ensure that expansion gap of 10 mm at the spigot end⁽²⁾ is not lost during placement of the fixed-point bracket.
- Next to each fitting, or groups of fittings, always a fixed-point bracket should be installed.
- Any additional pipe brackets, both for vertical as well as horizontal pipes, must be fitted as a sliding bracket⁽³⁾ to allow for linear expansion due to changes in temperature.
- If there is an option to fix the bracket to different walls, always take the wall with the highest mass.
- Sections of piping with fittings or short pipes must be secured with pipe brackets at intervals short enough to ensure that they cannot slide apart.

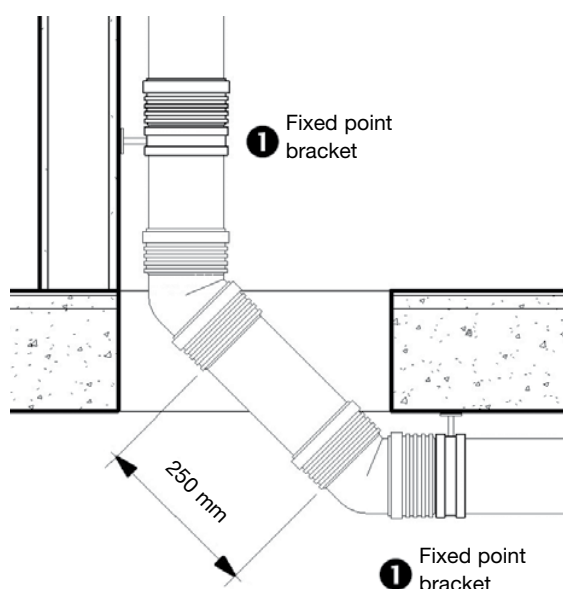


Pipe routing and special fittings

Vertical soil stack to horizontal

- Never use a 90° bend when connecting a vertical soil stack to a horizontal pipe, always use two 45° bends.

In buildings with more than three storeys, (>10 metre soil stack) install a 250 mm pipe between the two 45° bends, when space allows. This 250 mm straight area in the bend will reduce the noise created by the water flowing from the soil stack to the horizontal collector pipe. Secure a proper fixation of this part by using two fixed point brackets, one fixed to a short piece of pipe fixing in the vertical plane and one fixed point bracket as close as possible to the socket of the first horizontal pipe.

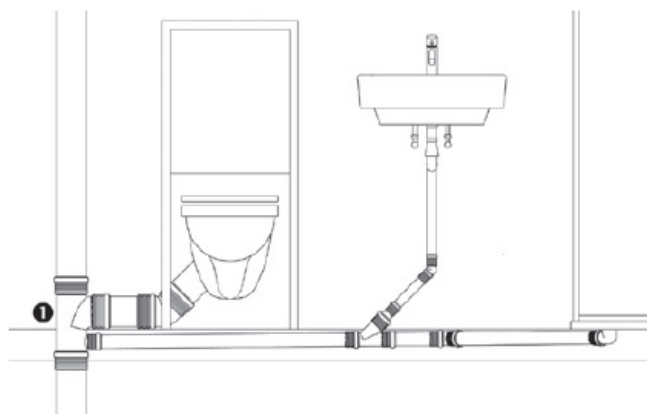


Floor and ceiling crossings

- Floor and ceiling crossings must be made both moisture resistant and soundproof using e.g. mineral wool or foam material.

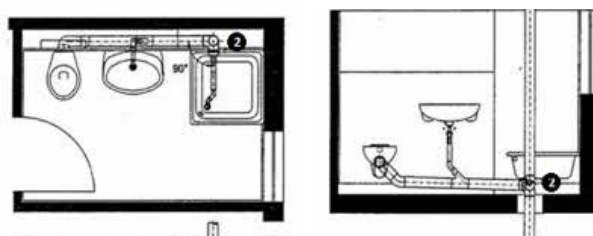
Shower Branch

- For an economic and easy installation of a toilet and waste pipes separately to the soil stack you can use a Shower branch.⁽¹⁾



Corner Branch

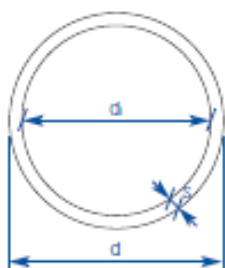
- The corner branch connects two different lines coming from different directions in the waste water with one fitting.
- The fact that the lines are in different directions makes the installation difficult. Corner branch⁽²⁾ connects the shower and toilet connection to the main line with a single fitting. If the corner branch had not been used, it would have been necessary to use several fittings and difficult turns with elbows in the narrow space to make the installation.
- Thanks to the corner branch, the number of connection used decreases. This provides comfortable flow and contributes to silence.



The pipe collar can be changed according to types of pipe.

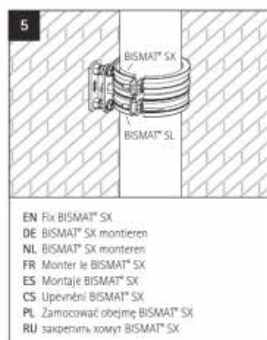
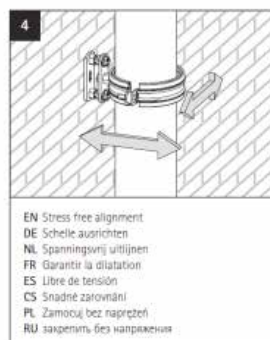
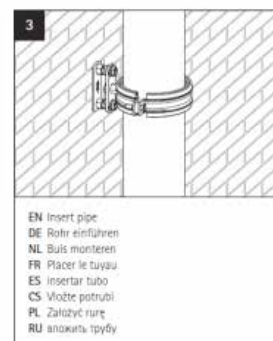
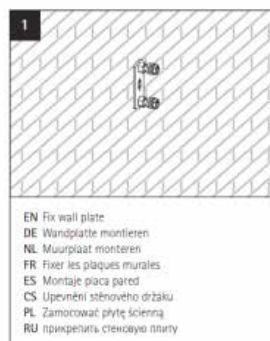
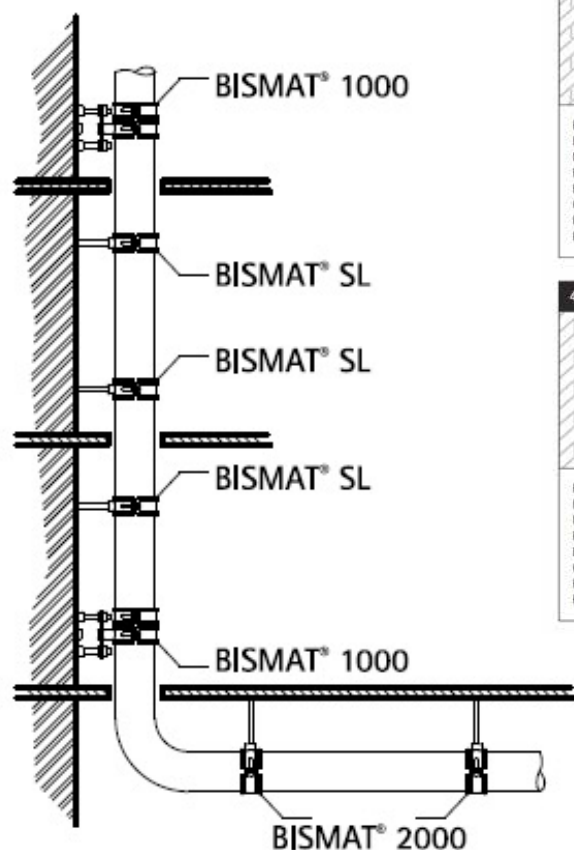
Table 4: Clamp diameter according to pipe types

Pipe Diameter	d	s	Diameter of fire collar		
			Standart Pipe	Pipe with Coupler	Inclined Pipe with Coupler
DN	mm	mm	mm	mm	mm
50	50	1,8	50	63	75
70	75	2,3	75	90	110
100	110	3,4	110	125	140
125	125	3,9	125	140	160
150	160	4,9	160	180	200
200	200	6,2	200	-	-



Pipe clamps for low noise systems

- The corner branch connects two different lines coming from different directions in the waste water with one fitting.
- The fact that the lines are in different directions makes the installation difficult. Corner branch⁽²⁾ connects the shower and toilet connection to the main line with a single fitting. If the corner branch had not been used, it would have been necessary to use several fittings and difficult turns with elbows in the narrow space to make the installation.
- Thanks to the corner branch, the number of connection used decreases. This provides comfortable flow and contributes to silence.

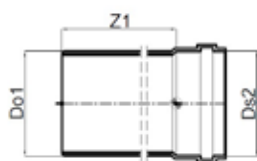


#	Ø (mm)	Ø (DN)	Type	Pz (N)
336 3 070	75	70	KA	650
336 3 075	80	70	GA	650
336 3 080	85	80	KA / GA	820
336 3 100	110	100	KA / GA	820
336 3 125	125	125	KA	820
336 3 137	135	125	GA	820
336 3 150	160	150	KA / GA	820
336 3 200	210	200	GA	820

EN KA = Plastic drain pipe, GA = cast iron drain pipe
DE KA = Kunststoff Abflussrohr, GA = Guss Abflussrohr
NL KA = Kunststof afvoerbuis, GA = gietijzeren afvoerbuis
FR KA = Tuyau synthétique, GA = tuyau en fonte
ES KA = Tubería de drenaje de plástico, GA = tubería de drenaje de hierro fundido
CS KA = Plastové odpadní potrubí, GA = litinové odpadní potrubí
PL KA = Rura odpływowa z tworzywa sztucznego, GA = rura odpływowa żeliwna
RU KA = Пластмассовая труба, GA = Чугунная канализационная труба

Wavin SiTech B1

Product range



SiTech B1 (PVC) Pipe

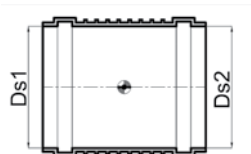
SAP Code	Dimensions mm	Do1=Ds2 mm	Z1 (Height) mm
3071725	50	50	150
3071726	50	50	250
3071727	50	50	500
3071728	50	50	1000
3071809	50	50	2000
3071810	50	50	3000
3071811	75	75	150
3071812	75	75	250
3071813	75	75	500
3071814	75	75	1000
3071815	75	75	2000
3071816	75	75	3000
3071817	110	110	150
3071818	110	110	250
3071819	110	110	500
3071820	110	110	1000
3071821	110	110	2000
3071822	110	110	3000
3071823	125	125	150
3071824	125	125	250
3071825	125	125	500
3071826	125	125	1000
3071827	125	125	2000
3071828	125	125	3000
3071829	160	160	250
3071830	160	160	500
3071831	160	160	1000
3071832	160	160	2000
3071833	160	160	3000
3071834	200	200	3000
3083521	250	200	3000

Wavin SiTech B1

Product range



Coupler



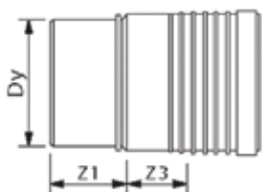
SAP Code	Dimensions mm	Ds1=Ds2 mm
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3067791	50	50
3067792	75	75
3067794	110	110
3067795	125	125
3067796	160	160
3071070 (*)	200	200

(*) Produced from PVC as black colour.



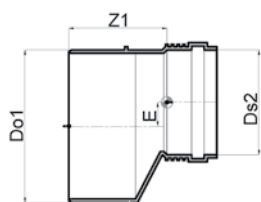
Expansion Socket



SAP Code	Dimensions mm	Z1 mm	Z2 mm
3074809	50	52	56
3085676	75	59	64
3067809	110	152	79
3074812	125	171	91
3074813	160	187	99



Long Eccentric Reducer

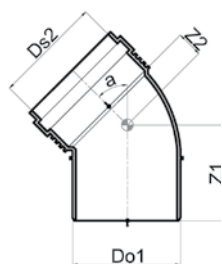


SAP Code	Dimensions mm	Do1 mm	Ds2 mm	Z1 mm	E mm
3067815	75	75-50	50	77	12
3067816	110	110-50	50	106	27
3067817	110	110-75	75	98	17
3067818	125	125-110	110	98	7
3067819	160	160-110	110	121	24
3067820	160	160-125	125	117	16
3071069 (*)	200	200-160	160	130	16

(*) Produced from PVC as black colour.

Wavin SiTech B1

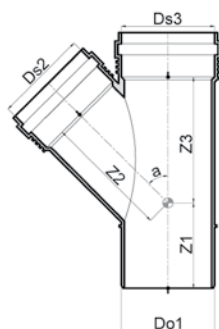
Product range



Bend

SAP Code	Dimensions mm	Do1=Ds2 mm	Z1 mm	Z2 mm	a °
3067726	50 x 45°	50	65	17	45
3067741	50 x 87.5°	50	78	31	87.5
3067727	75 x 45°	75	75	22	45
3067742	75 x 87.5°	75	95	45	87.5
3067729	110 x 45°	110	96	33	45
3067744	110 x 87.5°	110	128	64	87.5
3067730	125 x 45°	125	105	38	45
3067745	125 x 87.5°	125	141	74	87.5
3067731	160 x 45°	160	121	48	45
3067746	160 x 87.5°	160	166	94	87.5
3070672 (*)	200 x 45°	200	147	75	45
3070673 (*)	200 x 87.5°	200	195	127	87.5

(*) Produced from PVC as black colour.



Branch

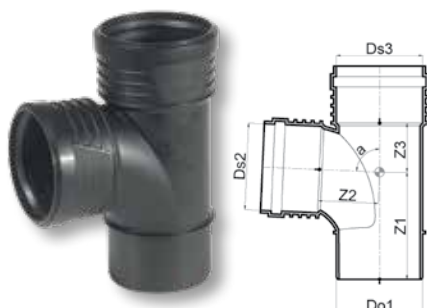
SAP Code	Dimensions mm	Do1=Ds3 mm	Ds2 mm	Z1 mm	Z2 mm	Z3 mm	a °
3067751	50-50 x 45°	50	50	64	71	71	45
3067774	50-50 x 87.5°	50	50	82	35	36	87.5
3067752	75-50 x 45°	75	50	56	82	77	45
3067775	75-50 x 87.5°	75	50	82	45	35	87.5
3067753	75-75 x 45°	75	75	74	96	96	45
3067776	75-75 x 87.5°	75	75	95	49	49	87.5
3067778	110-50 x 87.5°	110	50	96	63	37	87.5
3067779	110-75 x 87.5°	110	75	109	66	52	87.5
3067780	125-110 x 87.5°	125	110	133	77	71	87.5
3067757	110-50 x 45°	110	50	63	105	93	45
3067758	110-75 x 45°	110	75	71	122	113	45
3067760	110-110 x 45°	110	110	108	138	138	45
3067761	125-75 x 45°	125	75	70	133	121	45
3067762	125-110 x 45°	125	110	95	149	146	45
3067763	125-125 x 45°	125	125	106	156	156	45
3067781	125-125 x 87.5°	125	125	141	80	79	87.5
3067764	160-110 x 45°	160	110	82	175	164	45
3074213	160-110 x 87.5°	160	110	165	103	103	87.5
3067765	160-160 x 45°	160	160	120	200	200	45
3074214	160-160 x 87.5°	160	160	165	111	101	87.5
3070903 (*)	200-200 x 45°	200	200	140	250	253	45

(*) Produced from PVC as black colour.

Wavin SiTech B1

Product range

Swept Branch



SAP Code	Dimensions mm	Do1=Ds3 mm	Ds2 mm	Z1 mm	Z2 mm	Z3 mm	a °
3067835	110-110 x 87.5°	110	110	144	143	64	87.5

Shower Branch



SAP Code	Dimensions mm	Do1=Ds3 Ds4 mm	Ds2 mm	Z mm	Z1 mm	Z2 mm	Z3 mm	Z4 mm	a °
3071187	110-110-50 x 87.5°	110	50	111	96	63	79	64	87.5

Corner Branch



SAP Code	Dimensions mm	Do1=Ds3 mm	Ds2=Ds4 mm	Z1 mm	Z2=4 mm	Z3 mm	a °	as °
3067831	110-50-50 x 87.5°	110	50	96	63	37	87.5	90

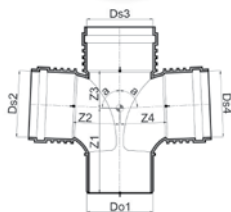
Double Branch



SAP Code	Dimensions mm	Do1=Ds3 mm	Ds2=Ds4 mm	Z1 mm	Z2=Z4 mm	Z3 mm	a °
3070908 (*)	50-50-50 x 45°	50	50	60	64	64	45
3070904 (*)	75-50-50 x 45°	75	50	52	87	82	45
3074217	110-50-50 x 45°	110	50	96	63	37	45
3070907 (*)	110-110-110 x 45°	110	110	78	140	140	45
3070906 (*)	125-110-110 x 45°	125	110	90	147	142	45

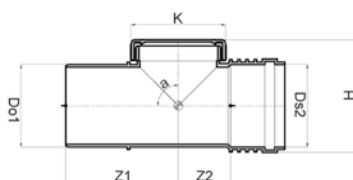
(*) Produced from PVC as black colour.

Wavin SiTech+ Product range



Double Swept Branch

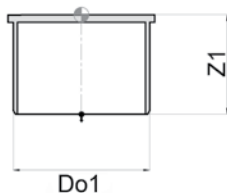
SAP Code	Dimensions mm	Do1=Do3 mm	Do2=Do4 mm	Z1 mm	Z2=Z4 mm	Z3 mm	a °
3067838	110-110-110 x 87.5°	110	110	144	143	64	87.5



Access piece

SAP Code	Dimensions mm	Do1 mm	Z1 mm	Do2 mm	Z2 mm	H mm	K mm	a °
3067784	50	50	83	50	36	80	65	90
3067785	75	75	102	75	50	111	93	90
3067787	110	110	135	110	72	155	128	90
3067788	125	125	142	125	74	162	146	90
3074215(*)	160	160	200	160	121	236	141	90

(*) Produced from PP as handmade



End Cap

SAP Code	Dimensions mm	Do1 mm	Z1 mm
3072439	50	50	36
3072440	75	75	35
3072441	110	110	39
3072442	125	125	49
3067830	160	160	55



S Siphon / SiTech+ S Siphon

SAP Code	Dimensions mm	Do1 mm	Z1 mm
3081684	110	45°	6
3081685	110	90°	6



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4 Sınıflandırma ve Doğrudan Uygulama Alanı

4.1 Sınıflandırma Referansı

Bu sınıflandırma TS EN 13501-1 + A1: 2010 standardı madde 11.7.3, 11.9.2 ve 11.10.1'e göre yapılmıştır.

4.2 Sınıflandırma

"Wavin TR B/BD PVC-U SiTech B1 Boru" ürününün yangın karşısındaki davranışına bağlı olarak belirlenen sınıfı:

B

"Wavin TR B/BD PVC-U SiTech B1 Boru" ürününün duman oluşturma özelliklerine bağlı olarak belirlenen sınıfı:

s1

"Wavin TR B/BD PVC-U SiTech B1 Boru" ürününün yanma damlaları oluşturma özelliklerine bağlı olarak belirlenen sınıfı:

d0

Yangın Davranışı	Duman Oluşumu	Alevli Damlacıklar
B	s1	d0

Yangına Tepki Sınıfı: B-s1, d0

4.3 Uygulama Alanı

Bu sınıflandırma aynı formülasyonla, aynı yoğunlukta ve et kalınlığında üretilmiş, uygulama yapılan bölgede sistemin birim alana düşen ağırlığı yaklaşık olarak aynı seviyede olacak ürünler için aşağıdaki şartlarda geçerlidir;

- Ürünün montajında, yatay geçiş elemanı olarak aynı formülasyonla üretilmiş boru ve geçiş elemanları ile birlikte kullanıldığında.
- Ürünün standart kauçuk içli metal kelepçeler ile veya kauçuk içermeyen yanmaz bağlantı elemanları ile mekanik olarak sabitlendiği durumlarda.

5 Sınırlamalar

TS EN 13501-1 + A1: 2010 standardı yayınlandığında, sınıflandırma raporunun geçerlilik süresi ile ilgili herhangi bir karar bulunmamaktadır.

Bu sınıflandırma raporu mamulün tip onayı ya da belgesi değildir ve böyle bir belge yerine kullanılamaz.

Sınıflandırma raporunun sonu.



SiTech+ Checkmate



20% *More
weight*

*Less
noise*

New Wavin SiTech+ sets a higher standard for low-noise soil and waste systems. With 20% more weight in the fittings, we have increased robustness and reduced the noise of water flow. Even in areas that are difficult to reach, installation is now easier with our improved product design. For any waste water installation project, SiTech+ is the better choice.

Discover our broad portfolio at wavin.com

Water management
Heating and cooling

Water and gas distribution
Waste water drainage



Wavin is part of Orbia, a community of companies working together to tackle some of the world's most complex challenges. We are bound by a common purpose:
To Advance Life Around the World.



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