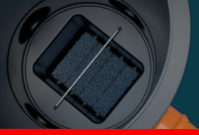


PRODUCT BROCHURE



SILTBLOK is an innovative and unique silt management product and the core of its technology is its BLOK filter , which is designed and tested to filter TSS (Total Suspended Solids) including Silt to $30\mu\text{m}$ (0.03mm) with removal rates of up to 99%. The BLOK filter separates/filters out the Silt /TSS within the flow, allowing the filtered surface water to pass through its matrix. The BLOK will not blind, deteriorate or corrode and so offers unrivalled performance and a totally sustainable solution that with prescribed maintenance could last for 50 years plus.



The BLOK filter is that it is manufactured using a 100% post consumer recycled thermoplastic material, which contains mostly recycled plastic bottles. This is then formed into the macro porous/micro porous block or (BLOK), using a simple manufacturing process .

As well as being very carbon friendly, using recycled materials for the main filtration system, supports the overall manufacturing cost of the product. Which ensures as well as being extremely effective the SILTBLOK range is also competitively priced.



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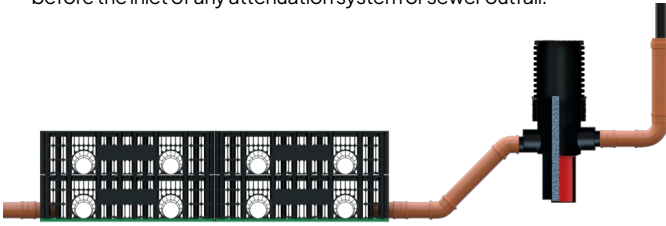


DESIGN LIFE



TYPICAL INSTALLATION

With the possible exception of the new SB300TE model, the majority of the SILTBLOK range is designed to be installed directly before the inlet of any attenuation system or sewer outfall.



Due to the effectiveness of the SILTBLOKs filter, there is no need to install several SILTBLOK units in the drainage system. Siting the SILTBLOK just before the attenuation system or outfall will effectively remove up to 99% of silt and TSS and so further SILTBLOK's upstream will not be necessary. Our recommendation for sites with large surface water run offs requiring large volumes of silt storage, would be to install our Accesso catch-pits upstream of the SILTBLOK unit to support the longevity of performance of the SILTBLOK.

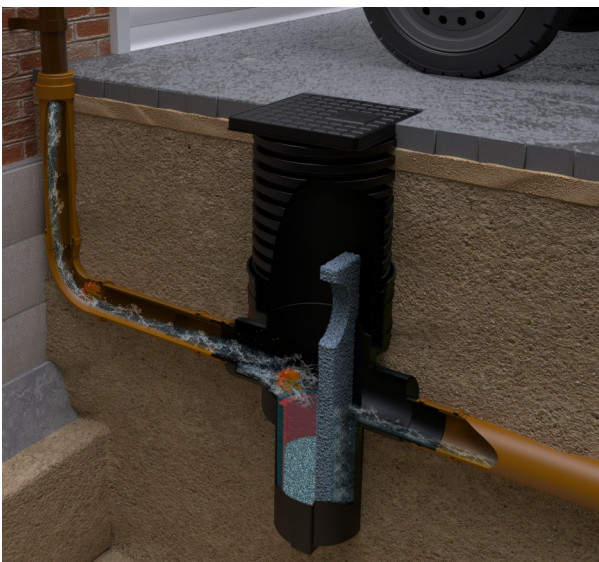
This will allow the storage of silt and TSS to be spread over the upstream catch - pits as well as the SILTBLOK's retention chamber.

MITIGATION

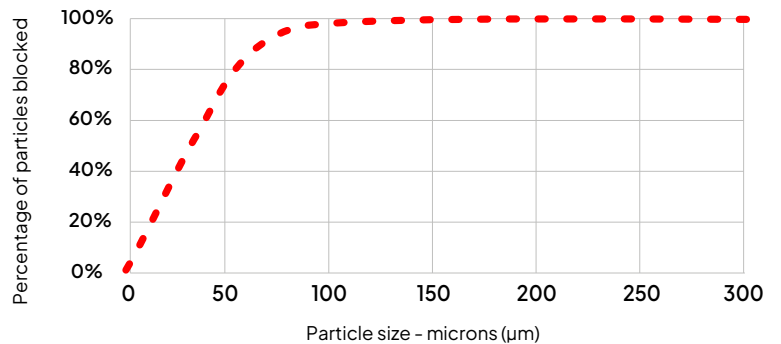
Event mean concentration (EMC) refers to a flow-weighted average concentration in the whole process of a rainfall-runoff event defined as the total pollution load mass divided by the total run off volume.

The rainfall peak is based on 40mm/hr (once a year event).

EMC (Event Mean Concentration Values)	TSS Total Suspended Solids (mg/l) or PPM
Commercial Areas	7.8 to 270
Car Parks	7.8 to 270
High Density Residential	55 to 1568
Low Density Residential	10 to 300
Urban Roads	11 to 5400
Highways	11 to 5400



The graph below has been produced from extensive inhouse testing of SILTBLOK to establish its filter rate efficiency in short-term and long-term use.



SILTBLOK removes particles from the discharged water through acting as a brake to disrupt the particle velocity and drop them out of suspension. For particles above 75µm the planks will generally remove around 95% particles on first use and improve towards 99% as the product is used and silts up. Below 75µm the planks will reduce the silts 50-70% depending on concentration.



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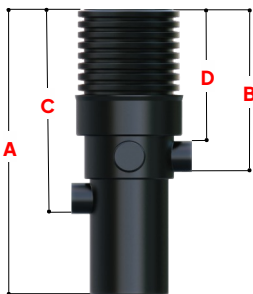
MODEL: SB300TE

Designed for housing developments with multiple connections from surface water areas ie roofs, driveways and paving. The units filtration system has been specifically designed to cope with flow rates of up to 6 litres per seconds from 1 in 200 year plus storm events that could potentially be generated from single and multiple house plots.

The ideal installation position for the SILTBLOK chamber would be within the surface water drainage system just prior to the final connection into the main sewer.

As detailed opposite the TE filter basket has a series of four BLOK's within the basket. The basket catches any silt and debris entering the unit and can be simply removed for emptying and cleaning. The basket capacity is 7.5kg.

NB: The SB300TE model is not supplied with an access cover. However both A15 and B125 - EN 124 loading covers are available.



Product Code	Pipework Ø (mm)	Overall Depth (mm)	Inlet Invert (mm)	Outlet Invert (mm)	Cover Depth (mm)	Approx. weight of basket assembly (empty) (kg)	Approx. weight of basket assembly (full) (kg)	Overall Weight (empty) (kg)
		A	B	C	D			
SB300TE	110	1020	575	725	475	6.5	14	10.5

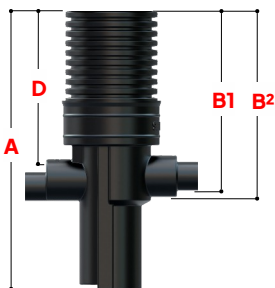


MODEL: SB300

Designed for housing or commercial developments with a surface water run off of up to 500m². Ideal for installation upstream of crate/cellular attenuation systems on single plot or smaller attenuation systems or connected directly from the roof areas of industrial or commercial building with 110/160mm downpipes.

As detailed opposite the BLOK has a silt basket attached. The basket catches any silt and debris entering the unit and can be simply removed for emptying and cleaning. The basket capacity is 5kg, which is between 1 to 3 years silt storage for an average semi-detached property.

NB: SB300 models are not supplied with access covers. However both A15 and B125 - EN 124 loading covers are available.



Product Code	Pipework Options Ø (mm)	Overall Depth (mm)	Inlet Invert (mm)	Inlet Invert (mm)	Cover Depth (mm)	Approx. weight of basket assembly (empty) (kg)	Approx. weight of basket assembly (full) (kg)	Overall Weight (kg)
		A	B¹	B²	D			
SB300/1	110 -160	990	600	630	485	5	10.5	11
SB300/1.5	110 -160	1500	1110	1140	995	7	12.5	15



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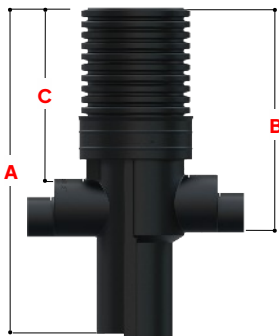


MODEL: SB500

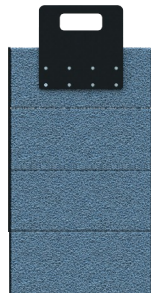
Designed for housing or commercial developments with a surface water run off of up to **1200m²**. Ideal for installation upstream of crate/cellular attenuation systems, ponds, swales and irrigation systems.

As detailed opposite the BLOK has a silt basket attached. The basket catches any silt and debris entering the unit and can be simply removed for emptying and cleaning. The basket capacity is 17.5kg, which is the average annual silt storage for around 4 average semi-detached properties.

NB: SB500 models are not supplied with access covers. However both A15 and B125 - EN124 loading covers are available.



Product Code	Pipework Options Ø (mm)	Overall Depth A (mm)	Inlet Invert B (mm)	Inlet Invert C (mm)	Approx. weight of basket assembly (empty) (kg)	Approx. weight of basket assembly (full) (kg)	Overall Weight (kg)
SB500/1.5	150-225	1480	965	715	14	42	33
SB500/2	150-225	1990	1475	1225	14	42	38
SB500/2.4	150-225	2400	1885	1635	14	42	43

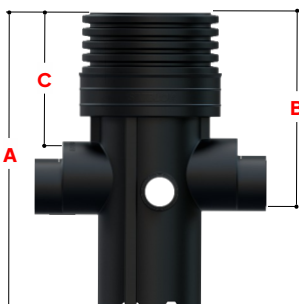


MODEL: SB600

Designed for larger commercial developments, road and highways schemes with surface water run off up to **2000m²**. Ideal for installation upstream of crate/cellular attenuation systems, ponds, swales and irrigation systems.

The SILTBLOK SB600 is supplied as standard with prefitted HDPE twinwall access shaft up to 3m depth.

NB: SB600 models are not supplied with access covers. However 600 x 600mm clear opening EN124 B125 access cover are available.



Product Code	Main Pipework Options Ø (mm)	Side Inlet Options Ø (mm)	Overall Depth A (mm)	Inlet Invert B (mm)	Depth of cover C (mm)	Overall Weight (kg)
SB600/1.5	225-300	150	1490	980	680	34
SB600/2	225-300	150	2010	1500	1200	44
SB600/2.4	225-300	150	2400	1890	1590	51
SB600/3	225-300	150	2985	2475	2175	62



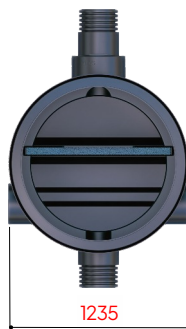
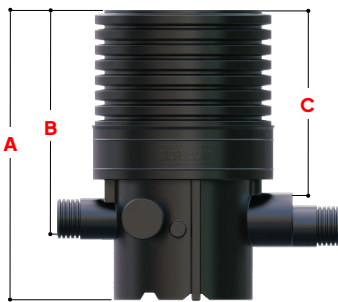
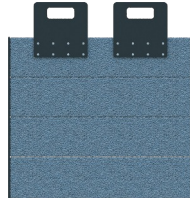
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DESIGN LIFE



MODEL:SB1050

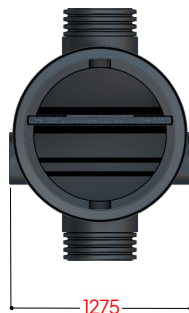
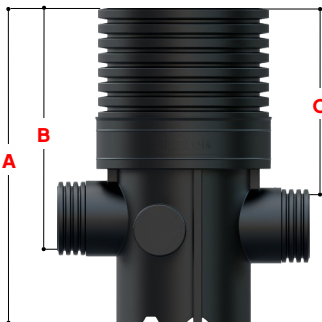
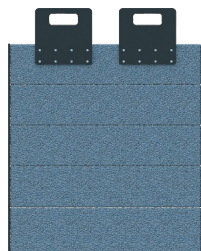
Designed for larger commercial developments road and highways schemes with surface water run off up to **2750m²**. Ideal for installation upstream of crate/cellular attenuation systems, ponds, swales and irrigation systems.

The SILTBLOK SB1050 is supplied as standard with prefitted HDPE twinwall access shaft up to 3m depth. Alternatively the base unit can be built into a PCC chamber (as illustrated below).

NB: SB1050 models are not supplied with access covers.

Product Code	Main Pipework Options	Side Inlet Options	Overall Depth	Inlet Invert	Depth of cover	Overall Weight
	Ø (mm)	Ø (mm)	A (mm)	B (mm)	C (mm)	(kg)
SB1050/1.5	150-225	110-225	1450	1015	735	70
SB1050/2	150-225	110-225	1970	1535	1255	97
SB1050/2.4	150-225	110-225	2385	1950	1670	120
SB1050/3	150-225	110-225	3010	2575	2295	153

Please Note: There is an option of a 300mm twinwall outlet on this model.



MODEL:SB1200

Designed for larger commercial developments road and highways schemes with surface water run off up to **3325m²**. Ideal for installation upstream of crate/cellular attenuation systems, ponds, swales and irrigation systems.

The SILTBLOK SB1200 is supplied as standard with prefitted HDPE twinwall access shaft up to 3m depth. Alternatively the base unit can be built into a PCC chamber (as illustrated below).

NB: 1200 models are not supplied with access covers.

Product Code	Main Pipework Options	Side Inlet Options	Overall Depth	Inlet Invert	Depth of cover	Overall Weight
	Ø (mm)	Ø (mm)	A (mm)	B (mm)	C (mm)	(kg)
SB1200/1.5	300-450	300	1500	985	535	101
SB1200/2	300-450	300	1970	1475	1025	128
SB1200/2.4	300-450	300	2390	1895	1445	150
SB1200/3	300-450	300	2960	2465	2015	177



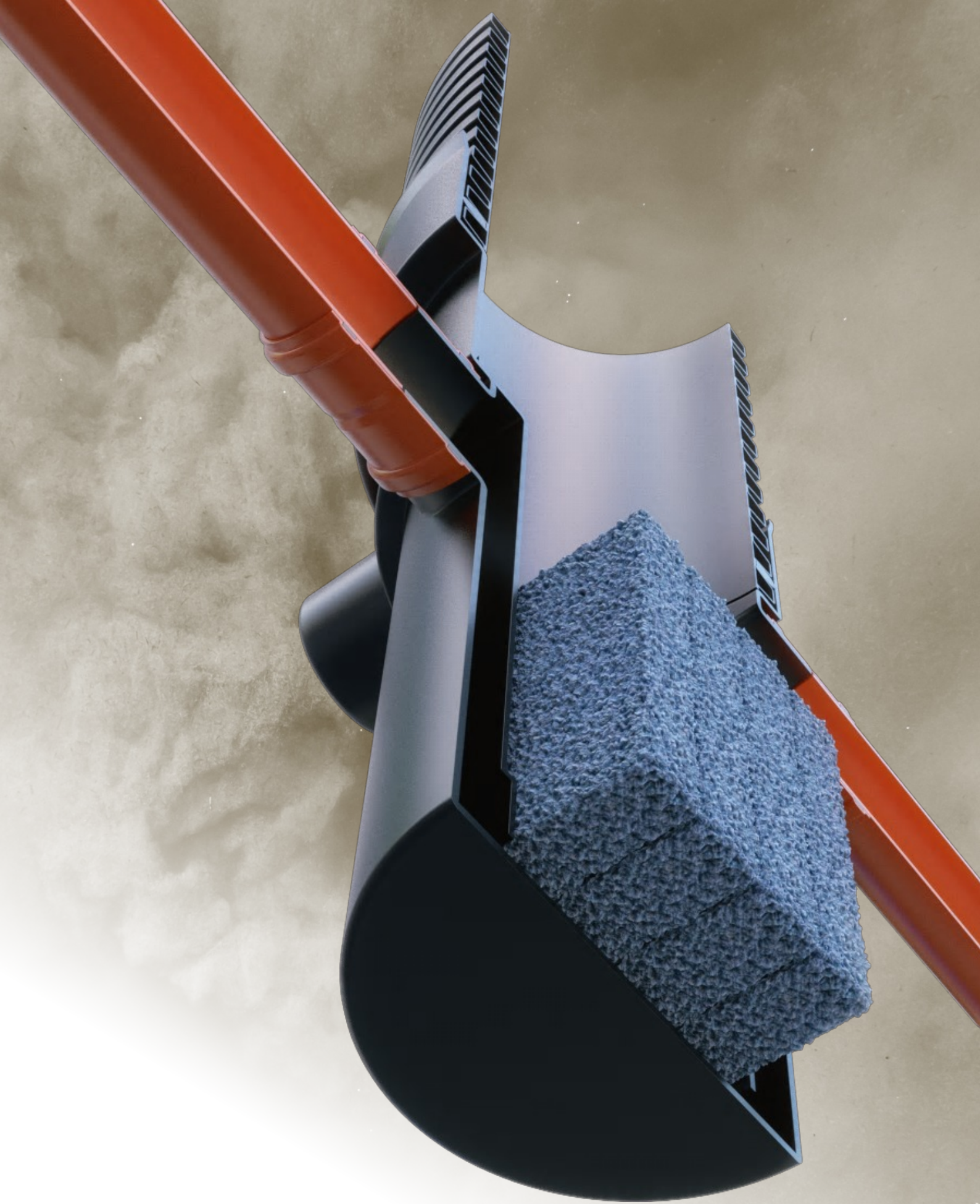
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