

EASYDrainex drainage pipe has an innovative double wall sandwich construction, with a corrugated outer wall and a smooth inner wall. This combines high ring stiffness with excellent flow characteristics. Rows of water in-take slots are symmetrically arranged around the apex of the pipe (240° - 270°) with a flow channel at the bottom (120° - 90°). The high infiltration area combined with thin inner wall structure ensures optimum water intake. The slots are protected in the valleys of the corrugated structure which reduces the possibility of blockage. The smooth core with an extremely low roughness coefficient results in greater flow rates, allowing the utilisation of smaller diameter pipes. EASYDrainex is manufactured in coils and lengths to the highest quality standards and are joined by push fit couplings.

## SPECIFICATIONS

Effective as at: 17.10.2017

Physical Properties:		Units	DN 75	DN 110	DN 160	Test Method
Duct Colour			Black			
Demarcations			Single longitudinal coloured stripe showing top of pipe			
Inside Bore of Duct			Smooth, free of blisters			Visual inspection
Material			HDPE			
Material Density		g/cm <sup>3</sup>	≥940			ISO 1183
Material MFI	190°C/2.16kg	g/10min	0.45			ISO 1183
Material Tensile Strength	@ Yield	MPa	27			ISO 527
	@ Ultimate	MPa	36			ISO 527
Min Bending Radius	Pliable	mm	250	350	450	SANS 61386-24
	Rigid	mm	1 400	2 500	4 000	
Outside diameter		mm	75	110	160	SANS 61386-24
Inside diameter		mm	63	95	137	To tolerance
Internal Coefficient of Friction			<0.3			
Resistance to Compression			Type 450			SANS 61386-24
Resistance to Impact			Normal Duty			SANS 61386-24
Nominal Slot Width		mm	1.3	1.3	1.8	
Infiltration area		mm <sup>2</sup> /m	>2 500	>5 000	>5 000	
Storage Temperature		°C	From - 20 to + 60			
Installation Temperature		°C	From - 10 to + 40			
Sizes			25m/50m coils or 6m lengths with coupling*			

\* Type and appearance of PVC coupling may differ regionally.

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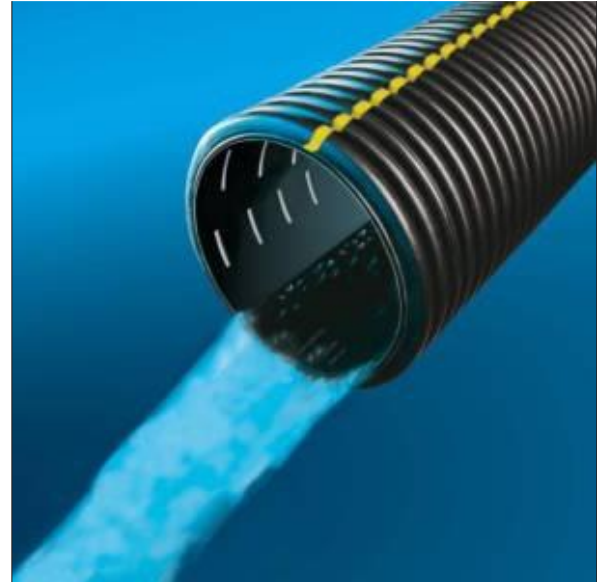
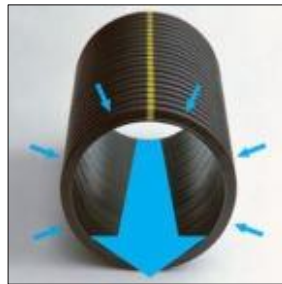
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## HDPE flexible slotted drainage pipe with smooth bore

**Drainex** drainage pipe has an innovative double wall sandwich construction, with a corrugated outer wall and a smooth inner wall. This combines high ring stiffness with excellent flow characteristics. It is available in coils and 6m lengths.

Rows of water in-take slots are symmetrically arranged around the apex of the pipe (240°) with a flow channel at the bottom (120°). The high infiltration area combined with the thin inner wall structure ensures optimum water intake. The slots are protected in the valleys of the corrugated structure which reduces the possibility of blocking. The smooth bore with an extremely low roughness coefficient results in greater flow rates, allowing the utilisation of smaller diameter pipes.



### Compressive strength

**Drainex**, correctly bedded and side filled with filter material (together with the all important surrounding soil), forms a complete pipe-soil system. This can withstand loads in excess of 150 kN/m which can result from soil pressure and superimposed loads.

### Impact resistance

As **Drainex** is manufactured from HDPE (high density polyethylene) it is extremely tough and durable. This facilitates handling and minimises breakages. It has excellent impact strength far exceeding the requirements of DIN 4262 Part 1 "uPVC and HDPE subsoil and multi-purpose

drain pipes for use in road construction and civil engineering".

### UV resistance

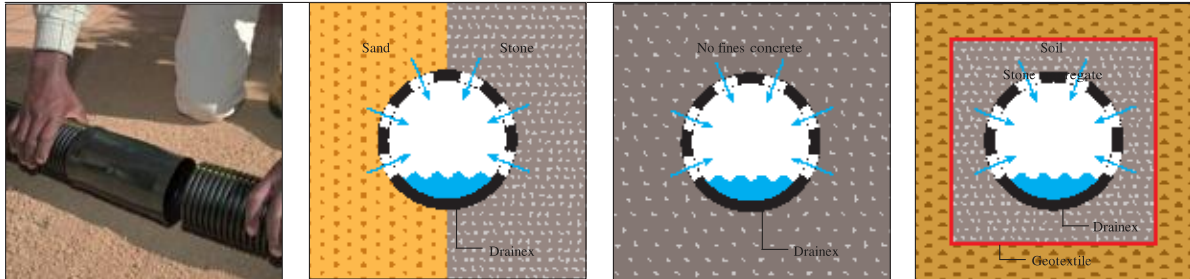
**Drainex** is UV stabilised and can be stored outdoors for one year.

### Marking

The apex of **Drainex** is marked with an indelible yellow line to facilitate the correct orientation during installation.

Chemical resistance **Drainex** is manufactured from HDPE which is one of the most chemically resistant polymers. It is unaffected by acids or alkalis in the most aggressive soils and effluents. A detailed chemical resistance specification is available on request.





### Joining and accessories

**Drainex** is joined by means of push fit couplings and a standard range of pipe fittings is available. Unslotted drainage pipes are also available to convey water collected in the drainage system to a discharge point. To ensure that this part of the system is watertight, profiled sealing rings are available. They should be positioned in the 3rd valley from the end of the pipe for sizes DN160 and DN110, and the 4th valley for size DN75. Joints with sealing rings are watertight to a 0,2 bar pressure. Pipe fittings for use with sealing rings are also available.

### Agriculture

In agricultural applications it is common practice to use drainage pipes with a single filter consisting of sand or stone. Fines will migrate through the filter into the pipe. These fines are deposited and build up over time in pipes with rough or corrugated inner bores. This necessitates periodic flushing to remove the deposits and maintain the integrity of the drainage system. However, if **Drainex**, with its ultra smooth bore, is installed at the correct gradient, the system will be self-cleansing.

### Structural

In structural applications, such as underfloor drainage of reservoirs, **Drainex** is used with a filter of no fines concrete. The strength of **Drainex** is a distinct advantage as it is not easily damaged during concrete pouring operations.

### Civil Engineering

A double filter consisting of stone and geotextile is most commonly used in civil engineering applications.

For a well designed filter to function a reverse filter must form between the soil and the geotextile, allowing fines to pass into the drainage system. The use of properly installed smooth bore **Drainex** will ensure the efficient removal of these fines. Stability of the filter will occur when the movement of fines has ceased.



### Technical data:

#### Drainex nominal pipe size

Outside diameter (mm)  
Inside diameter (mm)  
Infiltration area (mm<sup>2</sup>/m)\*  
Nominal slot width (mm)  
Standard pipe length (m)  
Standard coil length (m)  
Ring stiffness (kPa)

All specifications are subject to manufacturing tolerances

DN160	DN110	DN75
160	110	75
137	95	63
>5 000	>5 000	>2 500
1,8	1,3	1,3
6	6	6
25	50	50
>450	>450	>450

\*Higher infiltration areas are available on request

