

DATA SHEET

PERFORATED DRAIN OR PERFORATED AND FILTERED DRAIN

PRODUCT DESCRIPTION : Perforated flexible single wall pipe, with corrugated interior and exterior walls for drainage application use.

FUNCTION : Used to collect surface runoff and control the ground water level.

MANUFACTURING STANDARD : BNQ 3624-115 Type 2, Type 3*, compliant to ASTM F667 and meets the OPSS 1840 requirements.

RAW MATERIAL : Made from high-density polyethylene (HDPE) complies with properties classification of ASTM D3350 standard.

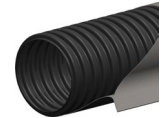
TECHNICAL DATA : Diameter : 50 mm (2 in) to 250 mm (10 in)
 Length : 3 m (9.8 ft) to 1200 m (3,937 ft)
 Strength in compression: 210 kPa
 Manning : 0.015 to 0.017
 Perforations** : Type 2, 1.8 mm sluice
 Type 3, 3.0 mm sluice
 Mega 3 (Type 3), more than 3.0 mm sluice
 Filter : Needle punched nonwoven TXC-10 geotextile, FOS 100 µm
 Needle punched nonwoven TXC-250 geotextile, FOS 250 µm
 Woven, FOS 450 µm
 Maximum backfill depth : 3 m (9.8 ft)



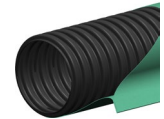
TYPE 2 perforated DRAIN



TYPE 3 perforated DRAIN



TYPE 2 perforated DRAIN filtered with TXC-10



TYPE 3 (MEGA 3) perforated DRAIN filtered with TXC-250

AVAILABLE COUPLERS : Soil tight: see technical data table

TECHNICAL DATA TABLE

Diameter				Length		Manning	Type		Filter FOS			HDPE soil tight connectors			
Nominal		Interior	Exterior				2	3	100 µm	250 µm	450 µm	IC	DBS	SC	
mm	in	mm	in	mm	in	m	ft	n							
50	2	Voir note 2		250	820,2	0,015		X		X					
75	3	73	2,9	91	3,6	30,5	100	0,015		X		X		X	
100	4	99	3,9	116	4,6	3/15/30/45/75/600/1200	9,8/49,2/98,4/147,6/246,1/1968,1/3937	0,015	X	X	X	X	X	X	X
150	6	150	5,9	176	6,9	30/300	98,4/984,3	0,016	X	X	X	X	X	X	X
200	8	198	7,8	235	9,3	6/30/120	19,7/98,4/393,7	0,016	X	X	X	X	X	X	X
250	10	250	9,8	295	11,6	6/30/120	19,7/98,4/393,7	0,017	X		X	X	X	X	X

Note 1: Values in the table are approximate and may change without notice.

Note 2: Values are available on request.

LEGEND

IC: internal coupler

DBS: double bell snap

SC: split coupler

*The Canadian General Standards Board has adopted in 1992 the BNQ Standard 3624-115 for implementation across the country (replacing the CGSB-41-GP-29-M76 standard).

** Several factors enter into the selection of the product to be used. Therefore Soleno recommends a granulometric analysis before undertaking a drainage project in order to choose the right pipe according to the type of soil.

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PERFORATED DRAIN OR PERFORATED AND FILTERED DRAIN (CONT'D)

FILTER PROPERTIES TABLE

	Properties	Test method	FOS 100 µm	FOS 250 µm	FOS 450 µm
Mechanical	Tensile strength (N)	CAN-148.1 - No 7.3	95	200	n/a
	Elongation at break (%)	CAN-148.1 - No 7.3	Min.:65, Max.:105	Min.:65, Max.:100	n/a
Hydraulic	Permeability (cm/s)	CAN-148.1 - No 4	0,15	0,46	0,4
	Permittivity (S ⁻¹)	CAN-148.1 - No 4	2	8	>2,4
	Filtration opening size (FOS, µm)	CAN-148.1 - No 10	110	250	450
	Wettability (cm)	CAN-4.2 - No 26.3	<1,0	<1,0	n/a
	Flow rate (l/s/m ²)	ASTM D4491	131	270	238
Construction	Raw material		Polyester	Polypropylene	Polyester
	Manufacturing process		Non-woven needle punched	Non-woven needle punched	Knit

APPLICATIONS : Trench drain
Foundation and basement drainage
Agricultural subsurface drainage
Turf and recreation drainage
Drainage collector and outlet

OPTION: Specific perforations are available upon request (minimum volume required).

ACCESSORIES : Consult the Drain Couplers and Accessories section in this technical catalogue to obtain more information about our complete line of drain accessories.