DATA SHEET

STORMCHAMBER®

PRODUCT DESCRIPTION : Semi-circular retention and infiltration chamber

FUNCTION : Subsurface storage of surface runoff with or without ground water replenishment and possible conveyance to an outlet



MANUFACTURING STANDARD: ASTM F2922 et ASTM F2787

RAW MATERIALS : High-density polyethylene (HDPE) ASTM D3350

TECHNICAL DATA: Structural strength: CAN/CSA - S6 - 02 (CL-625) and AASHTO (H-25 and HS-25)

CHAMBER TECHNICAL DATA TABLE

Features	SC-34E		SC-44	
Length - Departure chamber	2616 mm	103,0 in	2273 mm	89,5 in
Installed length -Departure chamber	2464 mm	97,0 in	2089 mm	82,3 in
Length - Intermediate chamber	2565 mm	101,0 in	2223 mm	87,5 in
Installed length - Intermediate chamber	2311 mm	91,0 in	1905 mm	75,0 in
Length - End chamber	2616 mm	103,0 in	2273 mm	89,5 in
Installed length -End chamber	2464 mm	97,0 in	2089 mm	82,3 in
Height	864 mm	34,0 in	1118 mm	44,0 in
Width	1524 mm	60,0 in	1937 mm	76,3 in
Interior width	1397 mm	55,0 in	1746 mm	68,8 in
Volume (chamber only)	2,050 m^3	72,4 ft^3	2,640 m^3	93.4 ft^3
Weight	45,4 kg	100,0 lb	54,5 kg	120,0 lb
Maximum connection diameter	600 mm	24 in	750 mm	30 in

SYSTEM TECHNICAL DATA TABLE

Features	SC-34E		SC-44	
Minimum installed volume[1]	3,040 m^3	107,4 ft^3	4,300 m^3	152.2 ft^3
Minimum backfill height[2]	457 mm	18,0 in	559 mm	22,0 in
Maximum backfill height[3]	4,88 m	16,0 ft	2,44 m	8,0 ft
Height MIN. of net stone under the chamber (bedding)[4]	152 mm	6,0 in	229 mm	9,0 in
Height MIN. of net stone above the chamber[3]	152 mm	6,0 in	305 mm	12,0 in
Minimum spacing between rows	152 mm	6,0 in	229 mm	9,0 in
Min. spacing between chambers and excavation wall[5]	305 mm	12,0 in	305 mm	12,0 in

Note 1: The minimum installed volume corresponds to the chamber installed in the minimum configuration of clear crushed stone, considering 40% void within it.
Note 2: Traffic (load CL-625, H-25 or HS-25) is allowed if the height between the top of the chambers and the final elevation reaches this value at least.
Note 3: For values below the minimum or above the maximum, please contact your Soleno representative.
Note 4: The minimum seat is indicated to obtain a functional retention system. The design engineer is responsible for ensuring the stability of the foundation. In addition, for values below the minimum, please contact your Soleno representative.
Note 5: The minimum space between the chambers and the excavation wall is filled with clear crushed stone.
Note 6: Values in the tables are approximate and may change without notice.

DATA SHEET

STORMCHAMBER® (CONT'D)

APPLICATIONS : Detention system
Retention system

OPTIONS : Pretreatment unit recommended
Maintenance and access well
Flow regulator
Multi-stage installation
Sediment trap

INSTALLATION : Visit our website at soleno.com for the installation guide.