

Beehive Overflow Filter

Rain gardens are generally designed to only capture either the first inch of runoff or some specific Water Quality Volume (WQv) for treatment. Some type of overflow mechanism should be considered in order to prevent erosion and other potential damage from flooding.

Fabco's Beehive (or Rain Garden overflow) filter is the perfect solution for this application. It can be added to capture floatables and solids in any type of round bypass or overflow structure.



Beehive Overflow Filter

Consists of 2 Components

A geotextile filter bag is connected to a support frame using a support ring

An expansion ring (plastic or aluminum) is sized to fit inside the pipe



Key Benefits of Beehive Overflow Filters

- Simple, durable, corrosion resistant construction
- Sizes to fit most pipes: 8" up to 36" ID – short (12") and long (21") bags available
- Fast, simple installation
- No worries about grate/frame compatibility
- Cost-effective protection for high flow operation
- Reduces clogs – keeps sediments and debris out of underground detention unit
- Quick clean out – beehive filter lifts up and out for servicing



Beehive Overflow Filter Sizing Chart

Unit Description	Capacity / Cubic Foot	Filtered Q / GPM/CFS	Bypass Q / GPM/CFS
Beehive Filter 8" Standard Bag (10288-1)	0.13	35 / 0.08	135 / 0.3
Beehive Filter 12". Standard Bag (10135-1)	0.7	776.0 / 1.7	455.3 / 1.0
Beehive Filter 12". Short Bag (10135-1S)	0.4	469.4 / 1.0	455.3 / 1.0
Beehive Filter 15". Standard Bag (10135-2)	1.0	965.3 / 2.2	615.4 / 1.4
Beehive Filter 15". Short Bag (10135-2S)	0.6	601.0 / 1.3	615.4 / 1.4
Beehive Filter 18". Standard Bag (10135-3)	1.2	1,061.9 / 2.4	615.4 / 1.4
Beehive Filter 18". Short Bag (10135-3S)	0.7	667.6 / 1.5	615.4 / 1.4
Beehive Filter 24". Standard Bag (10135-4S)	2.8	1,745.3 / 3.9	1,005.3 / 2.2
Beehive Filter 24". Short Bag (10135-4S)	1.6	1,125.0 / 2.5	1,005.3 / 2.2
Beehive Filter 30". Standard Bag (10135-5)	2.8	1,745.3 / 3.9	1,005.3 / 2.2
Beehive Filter 30". Short Bag (10135-5S)	1.6	1,125.0 / 2.5	1,005.3 / 2.2

8" STORMGRATE

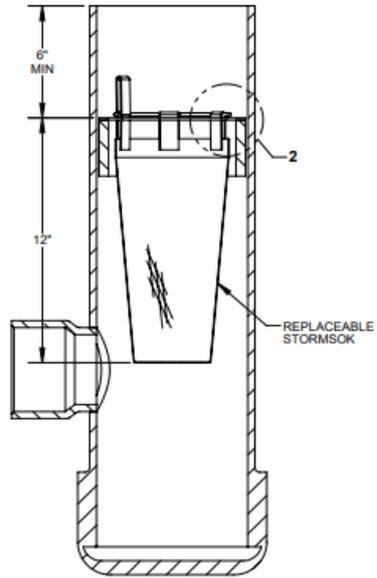
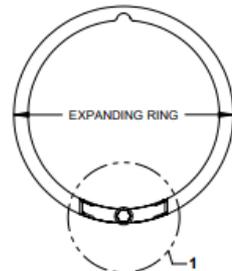
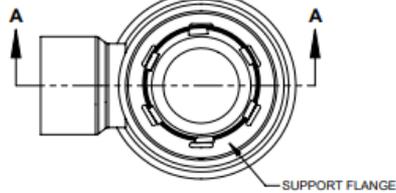
SACK SUPPORT RING

SUPPORT FLANGE (ALUMINUM ALLOY)

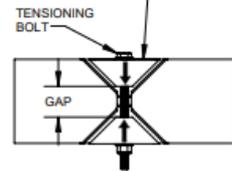
STORMSOK (REPLACEABLE)

EXPANSION SUPPORT RING (POLYMER FILAMENT)

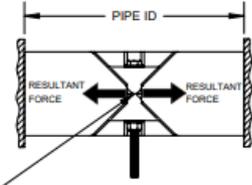
8" STORMGRATE FRAME



WEDGE ASSEMBLY SHOWN IN THE OPEN POSITION. NOTE THE GAP BETWEEN THE WEDGE FACES.



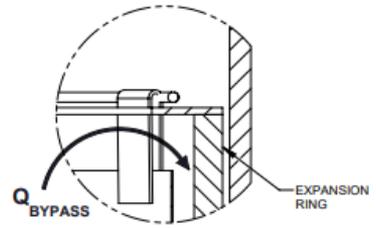
EXPANSION RING, UNLOADED



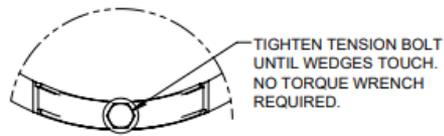
EXPANSION RING, LOADED

ZERO GAP. WEDGE ASSEMBLY SHOWN IN THE CLOSED POSITION. EXPANSION RING IS AT THE PROPER TENSION WITHOUT THE USE OF A TORQUE WRENCH.

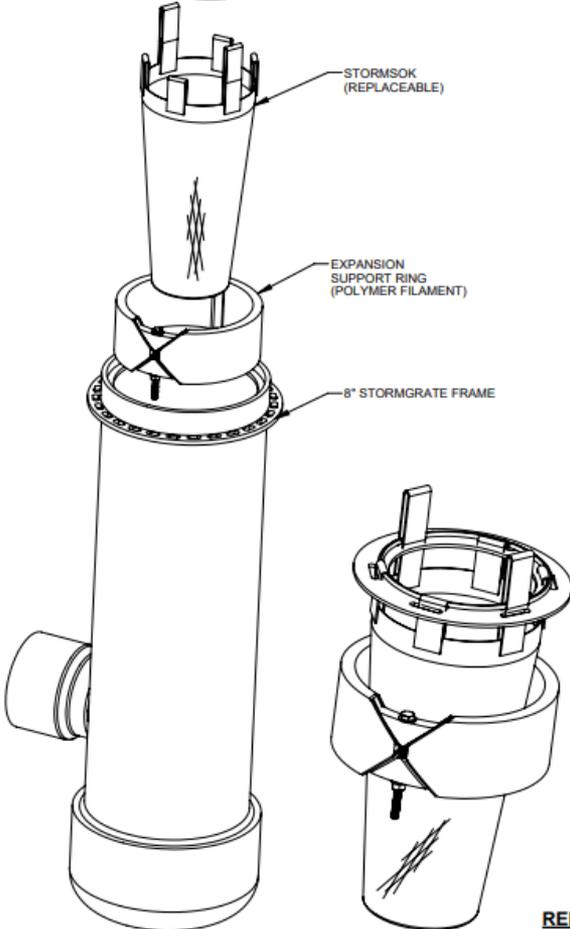
1. WEIGHT (EMPTY): 10 LB MAX
2. MATERIAL:
 - A) EXPANSION RING: POLYMER FILAMENT (HEAT BONDED)
 - B) SUPPORT FLANGE: ALUMINUM ALLOY PLATE, 6000 SERIES
 - C) STORMSOK: WOVEN POLYPROPYLENE GEOTEXTILE
 - D) SACK SUPPORT RING: ALUMINUM ALLOY
 - E) HARDWARE: STAINLESS STEEL
3. PERFORMANCE CHARACTERISTICS (TYP):
 - A) DEBRIS CAPACITY: 0.13 CU-FT
 - B) FILTERED FLOW RATE: 35 GPM (0.08 CFS)
 - C) BYPASS FLOW RATE: 135 GPM (0.3 CFS)
 - D) GEOTEXTILE SIEVE SIZE: 30 US SIEVE (595 MICRONS)
4. DESIGNED TO FIT HARCO 8" ROUND AND SQUARE CASTINGS
5. RECOMMENDED MINIMUM VAULT DEPTH: 2-IN BELOW STORMSOK
6. USE WITH FABCO REPLACEABLE STORMSOK, P/N: 10288-1-102
7. SHORT (8" LONG) STORMSOK IS AVAILABLE ON REQUEST
8. REPLACEABLE OIL BOOM IS AVAILABLE ON REQUEST



DETAIL 2



DETAIL 1



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TOLERANCES: DEC .03 & .01 DEC .004 & .005 FRACT # 0/16 ANGLE # 2°
APPROVAL DATE
DWN MS 10/31/16
ENGR JP 10/31/16
LPO
PROJECT
MATERIAL
SEE NOTES

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industries inc

FILE: STORMSOK & POLYMER EXPANSION RING FOR 8" STORM STRUCTURE
SUS DWN: MS 10/31/16
ENGR: JP 10/31/16
LPO
SCALE: NONE SHEET 1 OF 1