

Facts About Trash Guard Inserts

Trash Guard* retention performance has been measured at multiple North Carolina sites of diverse topography and land use classifications. These studies indicate that up to 20 pounds of nutrients are being removed per ton of materials retained by Trash Guard. The amount of metals being retained, such as Lead, Zinc, Copper and Cadmium is approximately One Half pound per ton of retained materials on average. These surprisingly high retention rates are suggesting to researchers that modern stormwater flows are no longer the benign phenomenon that society has historically considered them to be. For a report of this study call our Toll Free number listed below.

Insert Performance Highlights

- Captures Debris, Sediments & Floatables
- SIMPLE Retrofits to Existing Catch Basins
- Installs Without Heavy Equipment
- No Power Needed to Operate
- Adjusts to Irregular Catch Basin Bottoms
- Adjusts to Irregular Catch Basin Walls
- Adjusts to Increase cfs Capacity and Vertical Flow
- Stops Sediment Collection in Detention/ Treatment Ponds & Fishery Spawning Beds
- Eliminates Eyesore Stormwater Trash at Public Parks, Beaches and Waterways.

Toll Free 1-866-520-4362

* patent #7276156

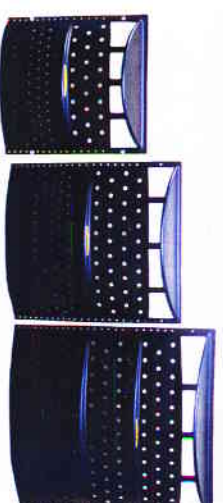
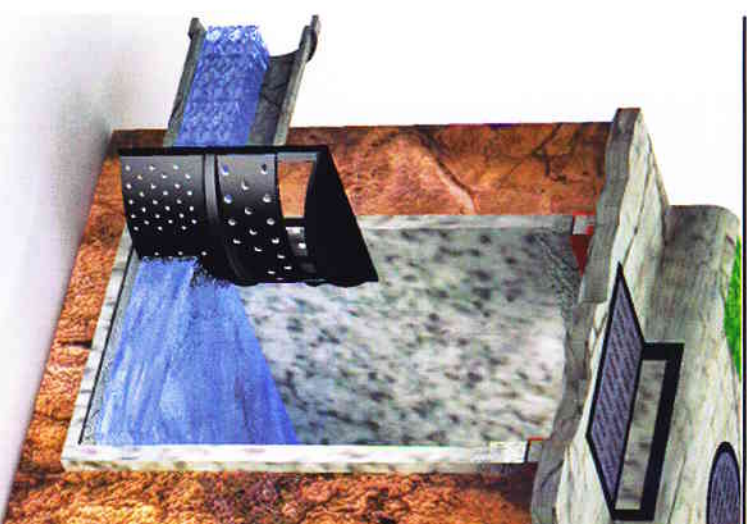
**Phone: 866-520-4362
Fax: 910-525-9950**

P.O. Box 10
Roseboro, NC 28382

Trash Guard
INCORPORATED

Trash Guard

INCORPORATED



Trash Free

Stormwater Discharge

Toll Free

1-866-520-4362

Trash Free

Stormwater Discharge



Trash Guard, Inc.* offers Three Guard Screen sizes for In-Place or Newly formed Catch Basins that utilize Discharge Pipes of 24 Inches or less diameter.

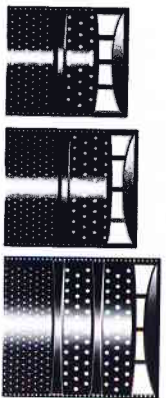
Each size screen can be adjusted at installation to accommodate Low Flow Stormwater events of 10 cfs or more. Trash Guard offers a Product Screen Sizing Calculations Computerized Program that can assist Engineers in selecting the correct Screen size for a specific site in order to prevent water flow Back Ups.

Trash Guard Screens can be installed in two hours or less, depending on the Installation Experience accumulated by Public Works staffs.

Cleaning cycles for each Screen size will vary from site to site depending on Foliage, Grass Cover, Bare Ground Construction Sediment related run-off and the season of the year. At over thirty locations in the Carolinas and Virginia from the Blue Ridge Mountains to the Atlantic Coast, the cleaning cycles required have been either Quarterly or Semi-Annual under a variety of rainfall conditions.

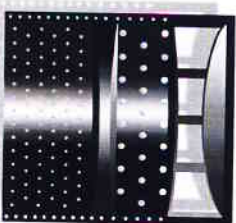
Toll Free 1-866-520-4362

* patent #7276156



Trash Guard* Insert 23"

Dimensions:
23" Wide 24" Tall



Concrete Outlet Pipes Covered
15" and less

Total Flow in 15" Concrete Pipe

with following Slopes
0.50% Slope 4.6 cfs
1.00% Slope 6.5 cfs
2.00% Slope 9.1 cfs

Total Flow Hydraulic Calculations

30" Deep Stormdrain Clean 3,074 cfs
48" Deep Stormdrain Clean 4,579 cfs

Drainage Area Required for 10 Year Storm

3,074 cfs 19,578 Sq. Ft.
4,579 cfs 29,163 Sq. Ft.

30" Deep Stormdrain 12" Debris 1,997 cfs
48" Deep Stormdrain 12" Debris 3,151 cfs

Drainage Area Required for 10 Year Storm

1,997 cfs 12,719 Sq. Ft.
3,151 cfs 20,068 Sq. Ft.

Extended from Wall 4"

30" Deep Stormdrain Clean 9,606 cfs
48" Deep Stormdrain Clean 13,455 cfs

Drainage Area Required for 10 year Storm

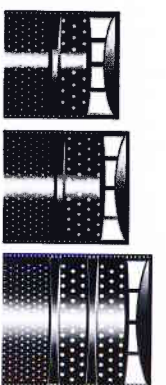
9,606 cfs 61,179 Sq. Ft.
13,455 cfs 85,693 Sq. Ft.

30" Deep Stormdrain 12" Debris 5,897 cfs
48" Deep Stormdrain 12" Debris 8,533 cfs

Drainage Area Required for 10 Year Storm
5,897 cfs 37,557 Sq. Ft.
8,533 cfs 54,346 Sq. Ft.

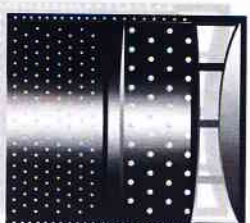
Toll Free 1-866-520-4362

** patent #7276156*



Trash Guard* Insert 28"

Dimensions:
28" Wide 30" Tall



Concrete Outlet Pipes Covered
18" and less

Total Flow in 18" Concrete Pipe

with following Slopes
0.50% Slope 7.4 cfs
1.00% Slope 10.5 cfs
2.00% Slope 14.9 cfs

Total Flow Hydraulic Calculations

36" Deep Stormdrain Clean 4,026 cfs
60" Deep Stormdrain Clean 6,383 cfs

Drainage Area Required for 10 Year Storm

4,026 cfs 25,641 Sq. Ft.
6,383 cfs 40,652 Sq. Ft.

36" Deep Stormdrain 18" Debris 2,240 cfs
60" Deep Stormdrain 18" Debris 3,965 cfs

Drainage Area Required for 10 Year Storm

2,240 cfs 14,266 Sq. Ft.
3,965 cfs 25,253 Sq. Ft.

Extended from Wall 4"

36" Deep Stormdrain Clean 10,867 cfs
60" Deep Stormdrain Clean 16,985 cfs

Drainage Area Required for 10 year Storm

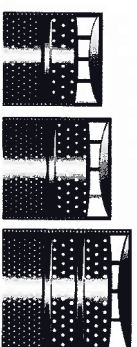
10,867 cfs 69,210 Sq. Ft.
16,985 cfs 108,175 Sq. Ft.

36" Deep Stormdrain 18" Debris 4,695 cfs
60" Deep Stormdrain 18" Debris 8,498 cfs

Drainage Area Required for 10 Year Storm
4,695 cfs 29,902 Sq. Ft.
8,498 cfs 54,123 Sq. Ft.

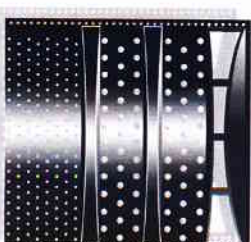
Toll Free 1-866-520-4362

** patent #7276156*



Trash Guard* Insert 34"

Dimensions:
34" Wide 36" Tall



Concrete Outlet Pipes Covered
24" and less

Total Flow in 24" Concrete Pipe

with following Slopes
0.50% Slope 16.0 cfs
1.00% Slope 22.6 cfs
2.00% Slope 32.0 cfs

Total Flow Hydraulic Calculations

42" Deep Stormdrain Clean 6,905 cfs
72" Deep Stormdrain Clean 11,539 cfs

Drainage Area Required for 10 Year Storm

6,905 cfs 43,977 Sq. Ft.
11,539 cfs 73,490 Sq. Ft.

42" Deep Stormdrain 24" Debris 3,216 cfs
72" Deep Stormdrain 24" Debris 6,321 cfs

Drainage Area Required for 10 Year Storm

3,216 cfs 20,482 Sq. Ft.
6,321 cfs 40,258 Sq. Ft.

Extended from Wall 4"

42" Deep Stormdrain Clean 15,669 cfs
72" Deep Stormdrain Clean 25,242 cfs

Drainage Area Required for 10 year Storm

15,669 cfs 99,794 Sq. Ft.
25,242 cfs 160,763 Sq. Ft.

42" Deep Stormdrain 24" Debris 5,596 cfs
72" Deep Stormdrain 24" Debris 10,899 cfs

Drainage Area Required for 10 Year Storm
5,596 cfs 35,640 Sq. Ft.
10,899 cfs 69,414 Sq. Ft.

Toll Free 1-866-520-4362

** patent #7276156*

Trash Guard Stormwater Discharge cfs Calculator



In order to consider Trash Guard Screens as an optional component in any clean water BMP Program, the selection of the correct Screen Size must be based on site specific storm water run-off flows. Trash Guard offers a cfs Stormwater Run-Off Discharge Calculator package unlike any seen to date in the Sustainable Development Clean Water industry.

Inserts Extended From Wall

All sizes can be Extended from the Catch Basin Wall from One to Eight Inches. This extension feature option increases cfs and Vertical Flow, which the cfs Discharge Calculator can produce numbers for.

For a Free Copy of this Engineering Package and the Free Tutorial Session on how to operate the CD, please call our Toll Free number to schedule an appointment at your offices.

Toll Free 1-866-520-4362

** patent #7276156*