

CRAFS®

CORRUGATED RETENTION AND FILTRATION SYSTEM

CONTROL OUTLET FOR USE IN CRITICAL SPOTS WITH TROUBLE CONDITIONS WHERE SILT FENCES FAIL

CRAFS is a corrugated retention and filtration system for sediment control in critical spots where there is a heavy concentration of runoff. This includes areas where runoff accumulates and can overflow, knock down, scour beneath or wash away standard silt fences.

Unlike a traditional sediment retention device (SRD), CRAFS' corrugated design strengthens the device to reduce the chance of failure and offers a greater amount of fabric surface area to provide rapid filtered seepage through the system. When installed with silt fence, CRAFS provides a control outlet to prevent sediment contamination of adjacent properties and waterways.

ADVANTAGES

- Corrugated design strengthens device and reduces chance of failure
- Provides rapid filtered seepage with 95% trapping efficiency
- Can eliminate need for costly sediment basins
- Upstream and downstream posts provide three-dimensional stability

SPECIFICATIONS

Standard widths include 8 ft. The structure is 36 inches high.

PROPERTY	TEST METHOD	MARV
Grab Strength (Tensile)	ASTM D4632	260 × 180 lbs
Elongation	ASTM D4632	15 × 15%
UV Resistance (500 hrs)	ASTM D4355	80%
Apparent Opening Size (AOS)	ASTM D4751	30 US std. sieve
Mullen Burst	ASTM D3786	175 psi
Water Flow Rate	ASTM D4491	75 gpm/ft ²



For more information about Erosion and Sediment Control, contact Inside Sales at **800.448.3636** or **info@ferguson.com** or visit us at **fergusongss.com**

CRAFS® PROVIDES A SOLUTION TO THE PROBLEMS OF CONVENTIONAL SEDIMENT CONTROL SYSTEMS.

CRAFS® corrugations provide significantly more length and surface area of filter fabric than a traditional conventional system (e.g., silt fence). The corrugated structure is responsible for rapid filtered seepage and a much greater structural stability. The CRAFS® alternative for retention and filtration at critical spots with trouble conditions.

CRAFS® ELIMINATES BLUNT IMPACT

- Upstream support post(s) “Splits” runoff entering system
- Runoff flows diagonally toward “Downstream” support post(s)



CRAFS® FASTER FILTERED SEEPAGE

- More filter fabric surface area equals faster filtered seepage
- Less overflow, knock down, and scour



CRAFS® LATERAL LOAD SUPPORT

- 3-D Structure equals Lateral Load Support
- Interaction between upstream and downstream support posts
- Stability within corrugated structure
- Support to adjacent silt fences



CRAFS® DIVIDES AND DISTRIBUTES RETAINED RUNOFF INTO MULTIPLE RETENTION WEDGES

- Low stress on retention system
- Broader deposition of sediments upstream
- More filter fabric surface area against retained runoff



CONTROL OUTLET DESIGN & SIZING GUIDE

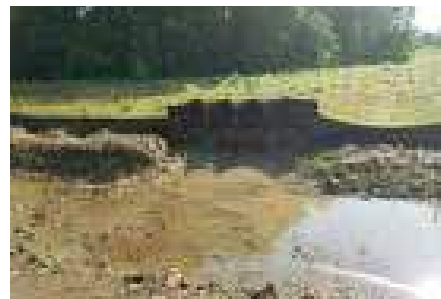
CRAFS CONTROL OUTLET WIDTH = 6 × CONTRIBUTING DRAINAGE AREAS (CDA IN ACRES)

CRAFS CONTROL OUTLET WIDTH REQUIREMENTS*

TOTAL AREA DRAINING	CONTROL OUTLET WIDTH
1 acres	6 ft
2 acres	12 ft
3 acres	18 ft
4 acres	24 ft
5 acres	30 ft
6 acres	36 ft
7 acres	42 ft
8 acres	48 ft
9 acres	54 ft
10 acres	60 ft

*REF: “TEMPORARY SEDIMENT TRAP OUTLET” CRITERIA SPECIFIED BY THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (CHAPTER 3.13 1992 EDITION)

CRAFS control outlets shall be located at the low spots within a silt fence alignment where runoff accumulates.



CRAFS® IS A PATENTED CORRUGATED RETENTION AND FILTRATION SYSTEM FOR SEDIMENTATION CONTROL (PATENT: US 9677243).

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