

ERTEC Environmental Systems

Protecting Global Lands and Waterways™

Case Study Perimeter Guard™ Perimeter Protection



- > Lower Project Costs
- > Better Performance
- > R R R™
 - ✓Recycled
 - ✓Reusable
 - ✓Recyclable



Post Storm March 2008



Application: Home Construction: Sediment Control

Product: Perimeter Guard™

Location: Grand Prairie, Texas

Builder: History Maker Homes — Subdivision: Cielo Vista

Installation: November 2007 — ongoing

Perimeter Guard changes the way sediment is controlled on-site for homebuilders:

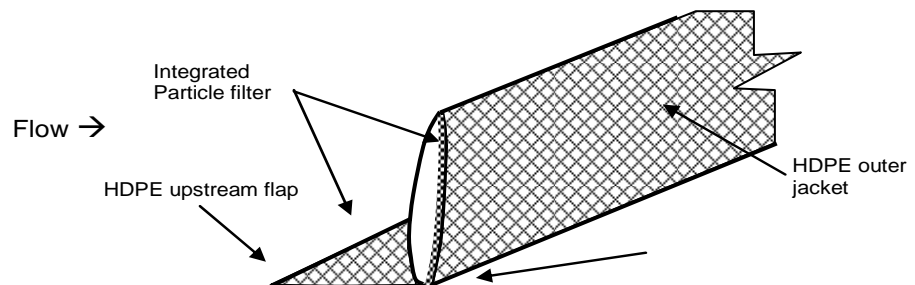
- High overhead mechanized crew not required for installation and maintenance
- Perimeter maintenance averages less than 6 min per week per lot under construction.
- When removed by landscapers after final grading, greater than 80% of the material can be stockpiled for reuse.
- Drastically lower overall costs—one installation with no additional purchases, less maintenance, and significantly less on-site sweeping.
- Very high environmental sustainability—nothing to landfills



ERTEC Perimeter Guard:

- Is an important part of a comprehensive BMP system to keep soil in place
- Allows water flow-through and significantly reduces water velocity while providing particle filtering
- Is made from recycled materials, reusable and recyclable HDPE

The Challenge: Home construction is highly unforgiving to Storm Water BMPs due to the high sub-contractor count, length of time between land development and landscaping phases, very high foot and vehicular traffic, trenching around the pads and curbs, installation of sidewalks, driveways, utility posts, and mail pads, etc. The previous perimeter sediment control method was to use fiber blankets near the curb to keep sediment from moving off-site. During home building, fiber blankets are quickly destroyed in foot or vehicular traffic. Blankets provide no freeboard height to keep flows from reaching the street and storm drains creating the need for constant sweeping. Blankets cannot be cleaned after sediment flows and become ineffective quickly—typically needing to be replaced more than five times during a subdivision build-out. The results of this installation demonstrate that Perimeter Guard can overcome the above concerns, provide better sediment control and an economic advantage for the home builder. (over)



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Several U.S. and Int'l Patents apply

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Alternatives

- Fiber blankets with a high level of maintenance and many replacements (sometimes more than 5 sets)
- Silt fence with an increased level of maintenance and replacements is challenging to keep intact during vertical construction, windy storms, etc.

Solution

6.5" +/- 0.5" Perimeter Guard was attached with 6" Nails (60D Bright, Common), 3 per 7 foot length – more if necessary. Installation Instructions and Guidelines are available at: www.ertecsystems.com.

Summary and Results

Installation was completed in November, 2007. Many promised benefits were achieved:

- Solids in rainwater run-off to the street and eventually to the storm drain were significantly reduced.
- Funds spent to replace and maintain barriers and street sweeping was reduced significantly.

Customer Quotes

- “ERTEC products and trade certification form a comprehensive package that allows us to change the way we manage our construction sites. With this package we can complete a multi-year project with one BMP installation, and then no further material purchases. We have seen improved sediment control performance at significantly lower costs. There’s also an important trend for builders to move towards environmentally friendly products such as ERTEC.” - Terry Tondre, VP Construction – History Maker Homes.
- “ERTEC’s systems were challenged recently in downpours that temporarily closed the nearby DFW airport. Our site, which previously had been a challenge with difficult soils on multi-elevations was in great shape afterward. I was impressed with ERTEC’s performance while nearby sites using alternative technologies were faced with significant cleanup after the storm.” - Bill Arnold, Storm Water Inspector – History Maker Homes.

Proven Benefits

Time and time again, ERTEC has delivered higher performance and dramatically lower costs.



Post major storm—a crisper, cleaner community

