

ERTEC Environmental Systems

Protecting the Integrity of Global Lands and Waterways™

Case Study

ProWattle™

Cold Weather Performance,
Functional Longevity
Reuse



- > Lower Operational Costs
- > Better Performance
- > Sustainable—Zero Waste
 - ✓ Reusable
 - ✓ Recyclable



Application: Road Construction—Cold Weather, Functional Longevity, Long Distance Logistics, and ProWattle reuse

Product: ERTEC ProWattle™ 42,000 Linear Feet (8 miles)

Location: Bridgeport, CA Elevation: 6,400 FT, Sierra Nevada Mountains

Customer: Caltrans District 09

ERTEC ProWattle™ is ideal for projects which last more than 9 months as a replacement for traditional devices such as silt fence and wattles. **Its advantages are significant. It will endure the entire project and require almost no maintenance. It is higher performing, lower cost, and zero waste.** ProWattle™ is designed to protect slopes, swales & perimeters from erosion and dramatically reduces logistics, installation and maintenance costs. ProWattle™ is fast to install and unlike straw wattles and silt fence, it spreads rather than concentrates flow.

The Challenge: Common practice is to use either silt fence or wattles to keep sediment from moving off-site. In this application, wattles and silt fence can become ineffective by allowing damming and undercutting. As the straw or fence material decays, storm water flow through and overtopping becomes common. In this location, the snow-load and warm/freeze cycles would have rendered straw wattles ineffective before the springtime run-off. ProWattle™ overcame these challenges, provided better risk management, and gave a significant economic advantage to the DOT and contractor.

Results: “This project was supposed to end during the fall. But, early weather forced us to leave ProWattle out there over the brutal winter, which would have destroyed wattles or silt fence, forcing a very costly reinstall. When this remote project completed, we removed and repackaged ProWattle and have since used it again. We recovered 100%.” - Russ Daveggio—Team EES PM



42,000 Linear Feet of ProWattle (8 miles) was installed in August, and by November it was buried, up to 10 feet in some areas, after record snow.



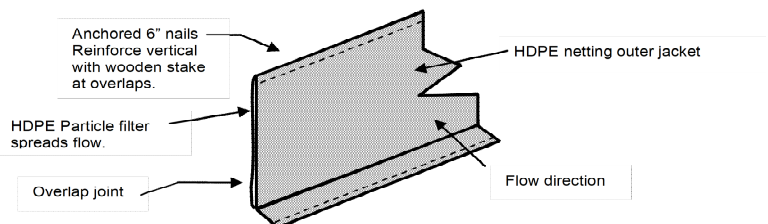
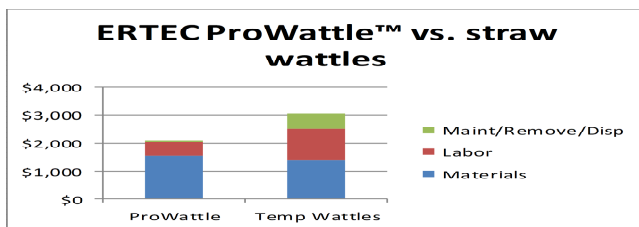
By springtime, 100% of ProWattle was functional and continued to perform until project completion.



Removal Operations



Installing Contractor removed ProWattle from this project and repackaged for reuse



Several U.S. and Int'l Patents apply

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