

WattleFence™ Sediment Device



Why WattleFence™?

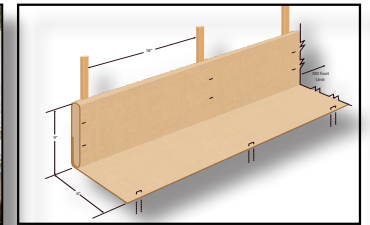
WattleFence is the next innovation in sediment control, combining the best features of wattles (a.k.a. logs, SRFRs) and silt fence. Western Green has developed a new product that creates a unique and powerful value proposition on projects working to contain sediment-laden flow on site. The finished product is unique in the high-volume shipping and storage, biodegradability, and installation. Wattle Fence provides all these advantages while providing similar sediment reduction and turbidity reduction as wattles and silt fence. This innovation has been awarded multiple patents.

Environmentally-Friendly and Renewable

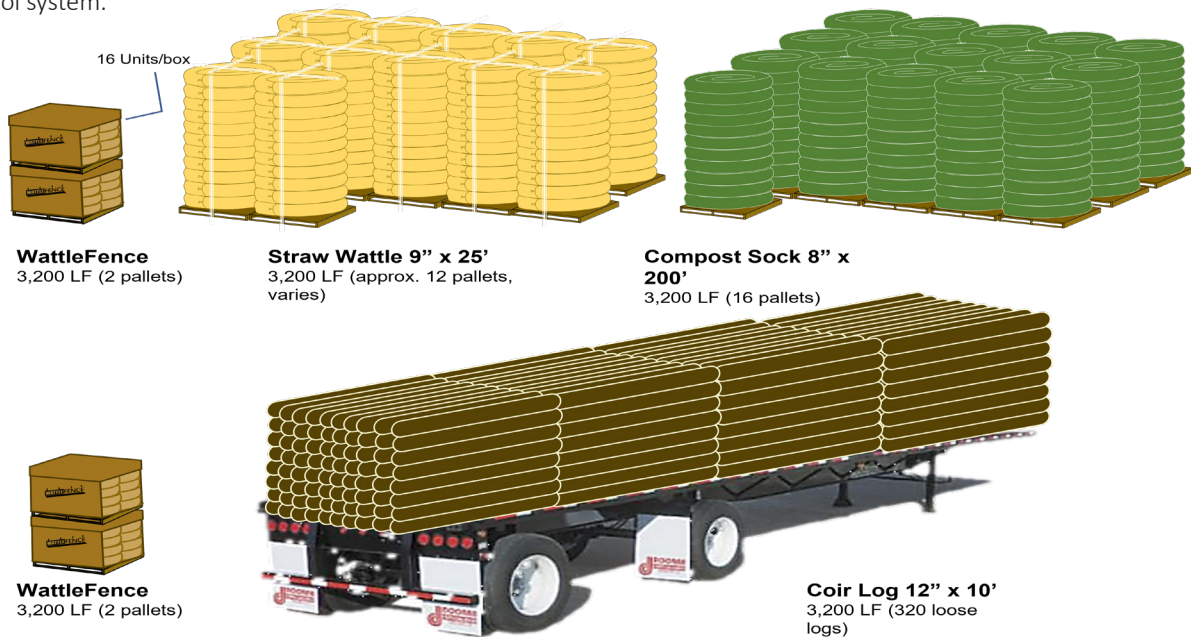
WattleFence is **constructed from natural, renewable components**, and is installed with wood stake supports. The final unit is unique in that it removes all plastics, poly nettings, and metal staking. The result is a sediment control device that is an environmentally-friendly product compared to silt fence, plastic netted logs, or poly-fabric compost socks. The WattleFence is made in the USA, and can offer a solution for project sourcing requirements.

Sediment Systems Comparison

For distributors, contractors, and project site managers, the **WattleFence results in the best shipping density and storage and warehousing opportunity**. The graphic below illustrates the unique benefits of the WattleFence in this regard. A single unit of pallet floor space of the WattleFence either on a truck or in the warehouse can replace up to 20 times the space of other sediment control units such as fiber logs (e.g. straw wattles), coir logs, or compost socks, and twice the floor space of unstackable silt fence. And when you factor in the dual-stage filtration performance of the WattleFence against other sediment devices, the answer becomes clear. WattleFence is your go-to option for an all-natural, highly-effective, and innovative sediment control system.



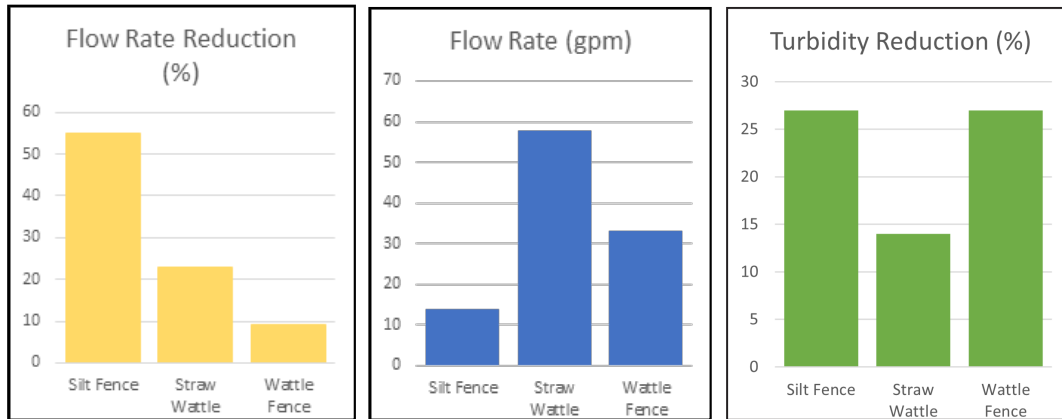
Shown Above: WattleFence under channel flow, schematic of WattleFence, Double layer of WattleFence installed as a stockpile perimeter control.



Performance Benefits of WattleFence

WattleFence has been tested to determine the flow-through capacity, flow rate reduction, sediment capture and turbidity reduction. In a series of tests conducted at multiple, independent facilities, WattleFence has been shown to provide an advantageous performance envelope. In short, **WattleFence captures more sediment and reduces turbidity at higher flow rates compared to a familiar technology**, silt fence. Additionally, WattleFence presents less resistance to flow than a straw log and provides significantly better turbidity reduction.

In testing performed at the Texas Transportation Institute (TTI), sediment-laden flows were conveyed through three devices as a comparison. WattleFence provided equivalent turbidity reduction without creating problematic backwater. The sediment load introduced was granular (average grain size 3 micron), thus, did not lead to blinding of any of the products. Thus, this could be considered the worst-case in considering the turbidity reduction. This method is a standard protocol utilized by Texas Department of Transportation.



Testing performed at TTI, shows the flow rate reduction, flow rate, and turbidity reduction comparison between three different sediment control devices.

One-Touch Installation

With a unique staking system, easy handling, no trenching or secondary apron requirement, WattleFence can boast a one-touch installation. Because of the condensed packaging, a single 100 linear ft unit of WattleFence can be handled easily by a single person, and installed with no equipment needed. Using wooden stakes and other degradable components, the system can be left in place without removal compared to silt fence which must be removed and wattles which can leave plastic netting long after the filling has degraded. **WattleFence allows the contractor to fasten and forget.** WattleFence is a good choice for a wide range of applications including channel flow dissipation, slope interruption protection, stockpile and perimeter control, drain protection, and more. To learn more about WattleFence visit our website www.westerngreen.com



Shown Left to Right: WattleFence as a sediment barrier along a riverbank, WattleFence in action under sediment-laden flows, WattleFence continued performance after multiple flow event.



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