



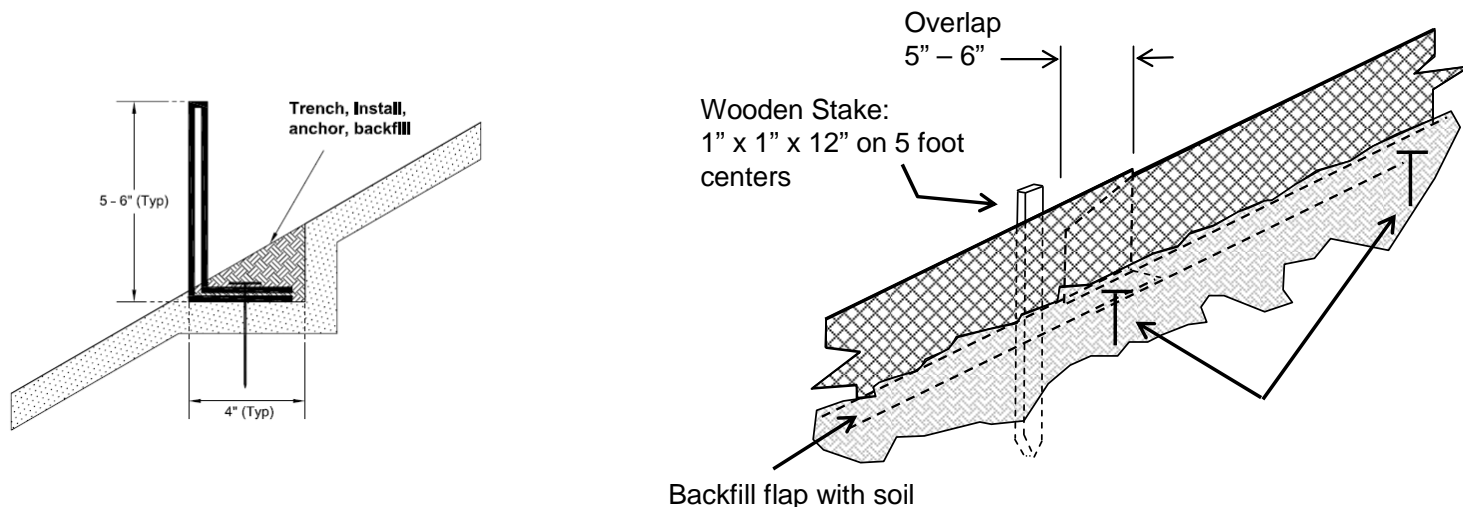
ERTEC Environmental Systems

Protecting the Integrity of Global Lands and Waterways™

ProWattle™ Installation and Maintenance Guidelines

Definition and Purpose	ERTEC ProWattle™ (PW) is installed on freshly graded slopes to reduce soil erosion and retain sediment. PW acts to terrace a slope. It spreads concentrated flows to prevent rilling and gullying. To contain and prevent soil movement, PW must be installed in combination with erosion/re-vegetation practices such as straw mulching, erosion control blankets, bonded fiber matrixes, or stabilized fiber matrix.
Applications	PW can also be used along the inside and outside perimeters of a construction project or around temporary stockpiles or everywhere straw wattles may be specified.
Limitations	PW can be used on slopes up to 1.2 to 1. For steeper slopes please contact ERTEC Technical Support 1-866-521-0724

Placement on slope	<ul style="list-style-type: none"> Always install PW along contours (a contour is a line drawn on a map connecting points of equal height). Dig a shelf on the slope 4" wide. Place PW in trench, with PW flap directed upstream. Backfill flap (push soil onto flap) with 1.0 to 1.5 inches of soil
	<ul style="list-style-type: none"> <u>Feet apart along the slope</u> <u>Slope Inclination (vertical:horizontal)</u>
	10 feet 1:2 and steeper
	15 feet 1:2 to 1:4
	20 feet 1:4 and 1:10
50 feet 1:10 and flatter	





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<p>Interconnect Segments</p>	<ul style="list-style-type: none"> Insert adjoining segments. The chamfered and notched end fits inside adjoining segment (3). Then butt the two PW segments together firmly (4). 		

	<p style="text-align: center;">1</p>	<p style="text-align: center;">2</p>	
<p>Anchoring</p>	<ul style="list-style-type: none"> Anchor to the soil with 6 inch nails (60d 6" bright common nails). It is NOT necessary to use galvanized nails. Drive nails through the flap so that flap is in contact with the soil at a minimum of 2 nails each 7 feet. Place nails about 1.5 feet from each end (1). For easy removal, DO NOT install nail or pin in the overlap (2). 		



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<p>Keying-in the flap</p>	<ul style="list-style-type: none"> ■ The horizontal flap prevents water from undercutting. Backfill with soil and eliminate gaps under PW. One to two inches of soil should be pushed on top of the flap for anchoring and to minimize water undercutting. 	
<p>End-of-run</p>	<ul style="list-style-type: none"> ■ The last in-line PW must be angled slightly up-slope to prevent water from flowing around the end. (Water end-runs will cause concentrated flows, which in turn will create rills and gullies). 	
<p>Staking on a slope (Staking on flat surface may not be necessary)</p>	<ul style="list-style-type: none"> ■ On a slope installation, Install a wooden stake (1" X 1" X 12") on the downstream side of PW on 5 foot centers (one stake every 5 feet (minimum)). ■ On a flat surface installation, in a perimeter sediment control application, it may not be necessary to stake behind the vertical section. Stake as necessary to keep vertical section vertical. 	



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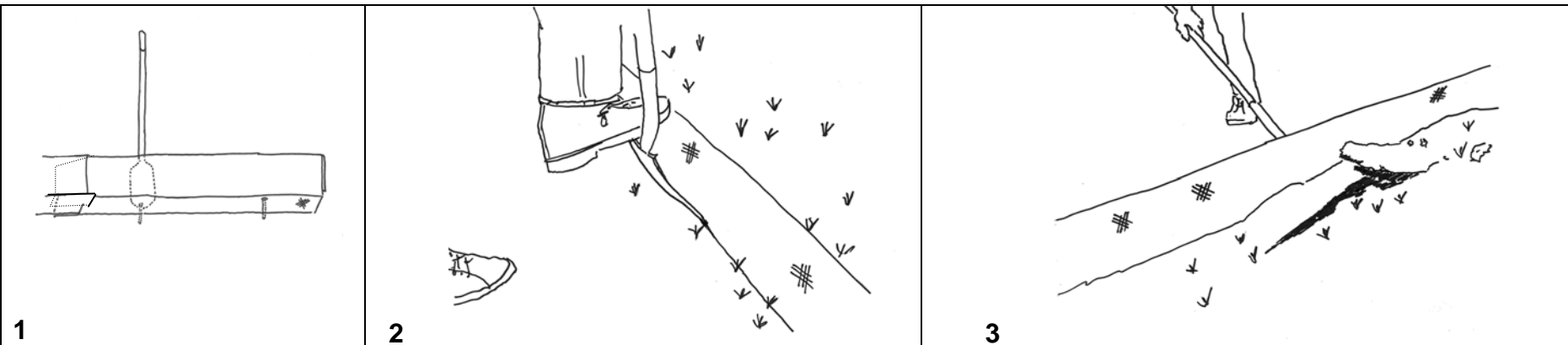
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Maintenance and Inspection

- Inspect PW when rain is forecast. Inspect PW following significant rainfall events and at least daily during prolonged rainfall. Perform maintenance as needed or as required.
- Fix gullies or significant rills where they occur. Sediment shall be moved when accumulation reaches 75% of PW height. Move sediment shall be incorporated in the project at designated locations.

Removal



- When the slope is stable with vegetation cover greater than 70%, PW can be removed and stored for reuse or relocated to another project.
- (1) Position shovel downstream of PW. (2) Work shovel under PW. (3) Pry up and break-up the sediment. (4) Once the sediment is broken, the PW segment is easily removed. Remove PW segment. Compact loosened sediment on slope. Anchor nails (2 per segment) can be preserved for reuse. Crack loose and shake sediment from PW segment. It is not necessary to clean PW of all remaining sediment prior to reuse (it is not necessary to steam-clean or wash PW between installations). The residual sediment that remains on the filter can be beneficial as a secondary filter (filter cake) upon subsequent installations.

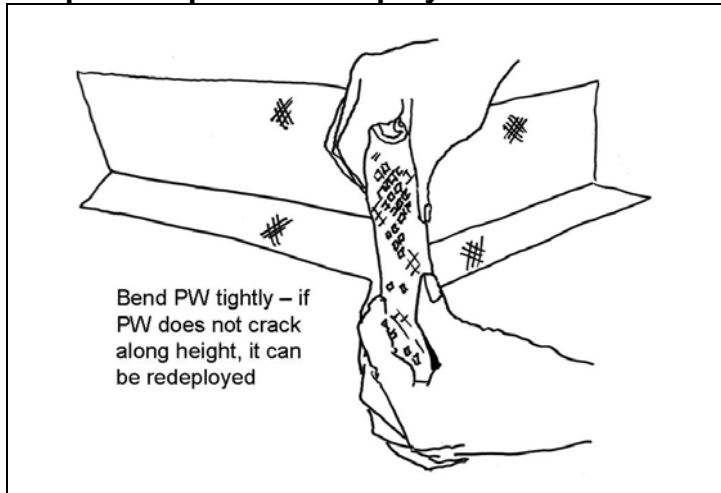


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Inspection prior to redeployment



- PW is designed to resist degradation from sunlight and provide many years of usability while protecting slopes from erosion. There is a simple and quick 2-step test to determine if PW retains its functionality. Select several random PW segments from the lot that is to be redeployed:
 1. Examine the filter (1). Make sure filter is in-place and intact. If there are no tears or holes proceed to step 2.
 2. Bend a segment sharply (2). Examine the black outer jacket along its vertical dimension. If the segment does not crack-thru, it can be redeployed.
- If not reusable due to damage, PW can be recycled as #2 (HDPE).

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