

Straw Wattle Installation

Proper installation of the straw wattle is essential in order to insure the success of the product. Straw wattles are designed for low surface flows, not to exceed 1 cfs for small areas. While they work well on stream banks, they should not be placed in the path of high water flow. On slopes, wattles should be installed on contour with a slight downward angle at the end of the row in order to prevent ponding at the mid-section. No overall slope preparation is needed prior to installation; however, straw wattles should always be installed in shallow trenches according to the guidelines given below. Running lengths of wattles should be abutted firmly to ensure no leakage at the abutments. Guidelines regarding vertical spacing are given below. The wattles should be pinned securely to the ground according to instructions in order to insure their stability and the success of the installation.

SPACING - DOWNSLOPE

Vertical spacing for slope installations should be determined by site conditions: slope gradient and soil type are the main factors.

A good rule-of-thumb is:

- 1:1 slopes = 10 feet apart
- 2:1 slopes = 20 feet apart
- 3:1 slopes = 30 feet apart
- 4:1 slopes = 40 feet apart, etc.

However, adjustments may have to be made for the soil type:

- For soft, loamy soils - adjust the rows closer together.
- For hard, rocky soils - adjust the rows further apart.



TRENCHING

Use a hand tool such as a maddox or pick to score the ground. Using a shovel, dig the trench to the needed depth. Soil from excavating the trenches can be placed on the uphill, or flow side, of the trench to be used during installation.

- For soft, loamy soils: dig a 3-5 inch trench.
- For hard, rocky soils: dig a 2-3 inch trench.

INSTALLING

Lay the first straw wattle snugly in the trench. **No daylight should be seen under the wattle.** Pack soil from trenching against the wattle on the uphill side. When installing running lengths of straw wattles, you must butt the second wattle tightly against the first wattle. **DO NOT overlap the ends on top of each other.** Overlapping behind each other has been done with some success. Stake the straw wattles at each end and four foot on center.

For example:

- 25 foot wattle uses 6 stakes
- 20 foot wattle uses 5 stakes
- 12 foot wattle uses 4 stakes

Stakes should be driven through the middle of the wattle, leaving 2-3 inches of the stake protruding above the wattle. A heavy sediment load will tend to pick the wattle up and could pull it off the stakes if they are driven down too low. It may be necessary to make a hole in the wattle with the pick end of your maddox in order to get the stake through the straw. When straw wattles are used for flat ground applications, drive the stakes straight down; when installing wattles on slopes, drive the stakes perpendicular to the slope.

Drive the first end stake of the second wattle at an angle toward the first wattle in order to help abut them tightly together. If you have difficulty driving the stake into extremely hard or rocky slopes, a pilot bar may be needed to begin the stake hole.

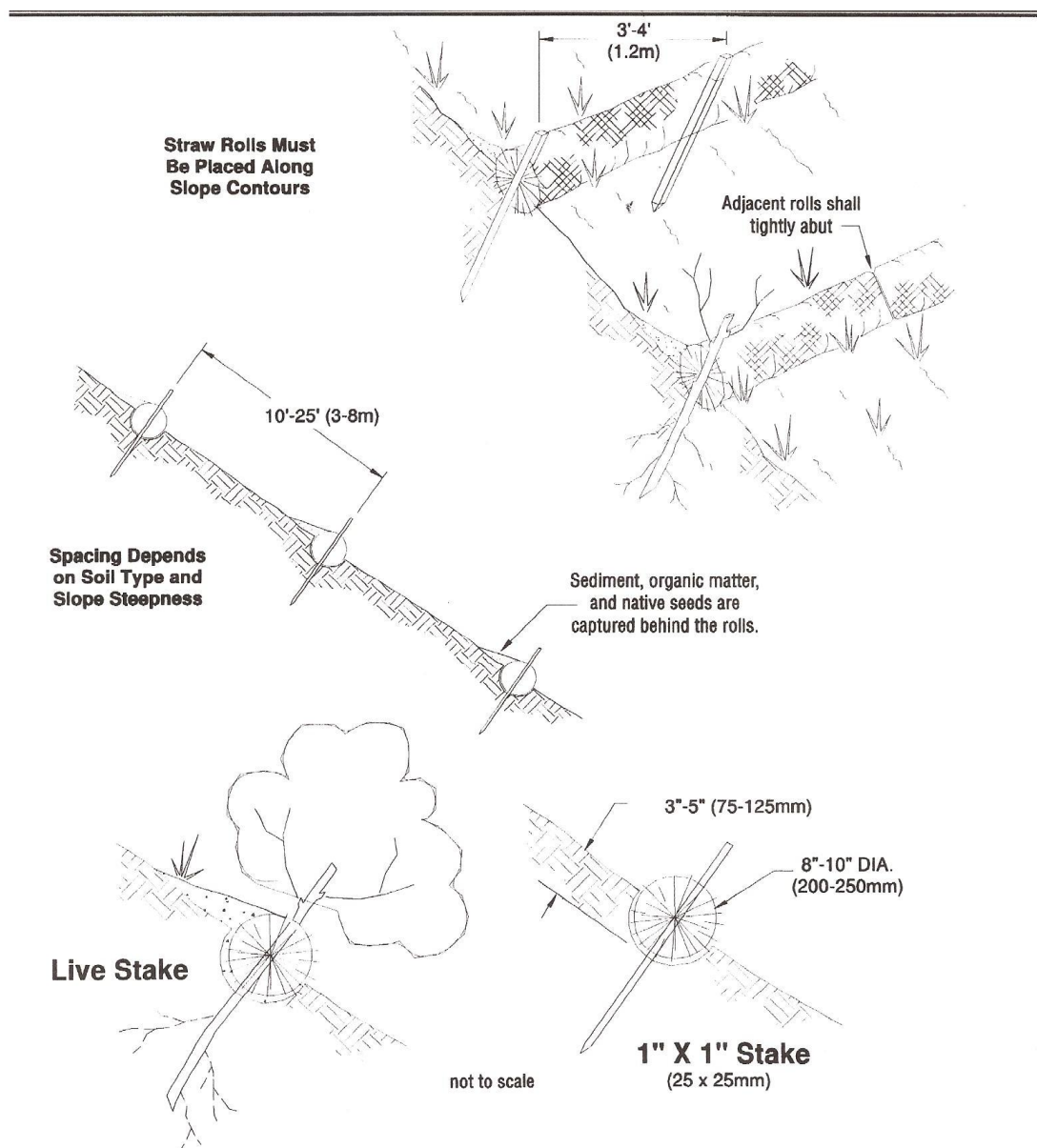
FLAT GROUND APPLICATIONS

For installations along sidewalks or behind curbs it may not be necessary to stake the wattles, however, trenches must still be dug. If you have not yet back-filled behind the sidewalk or curb, lay the wattle snugly against it first, then backfill behind the wattle. Your trench is done! For installations around storm drains and inlets, trenches and staking will be needed.

Fit wattle in trench snugly up against the sidewalk or curb. Around storm drains or inlets, the wattle should be back 1–1½ ft. and should direct water flow toward the angle of drainage. If all drainage angles into the inlet, snake the wattle all the way around the inlet, using more than one wattle if needed.

STAKING

We recommend using wood stakes or willow cuttings, rather than metal pins, to secure the straw wattles. Wood stakes will eventually bio-degrade, and willow cuttings will grow and provide extra stabilization. Be sure to use a stake that is long enough to protrude several inches above the wattle: 18" is a good length for hard, rocky soil. For soft, loamy soil use a 24" stake for greater security. The diameter of the stake should be approximately 1" for ease of driving through the wattle.



NOTE:

1. Straw roll installation requires the placement and secure staking of the roll in a trench, 3"-5" (75-125mm) deep, dug on contour. runoff must not be allowed to run under or around roll.

Northwest Wattles

dba Arrow Construction Supply

Straw Wattles



100% Natural & Weed Free
Erosion Protection
Slope Stabilization
Sediment Control
Storm Water Runoff Control

Northwest Wattles are an excellent **BMP solution**

(Best Management Practices) for **construction & highway projects**



Northwest Wattles are a low cost answer to erosion and soil runoff. Being relatively lightweight, they are easy to transport and can be set in place quickly for immediate, yet long lasting erosion control. Wattles can replace silt fences, straw bales, earth berms, and sandbags. Wattles are easy to install and easy to maintain.

Our Product:

- Wheat Straw
- 9" (or) 12" diameter – standard lengths up to 25 feet
- Photodegradable plastic mesh last approximately 3 to 5 years
- Biodegradable burlap casings last approximately 1 year
- Weigh approx. 1.5 lbs (+/-) per linear foot
- **Noxious Weed Free Forage & Straw Certified - NWFFS**
- Compostable – no need to remove.
- Decomposes slowly while vegetation is establishing
- On many **SWPP (Storm Water Prevention Plans)**

Flat Ground Projects: Ideal for bare lots along the edge of curbs and driveways, around drains and inlets, and on and around stock piles. Use on flat surfaces or slopes to prevent erosion and sediment pollution on construction sites. Utilize as water bars on access roads or along sidewalks to prevent sediment run off onto pavement and into gutters. **Slopes:** Place in shallow trenches along the contour of newly constructed or disturbed slopes. Wattles help stop overland flow, decrease water velocity, reduce sheet erosion and prevent rill and gully development.

Visit our website: www.asphaltsupply.net

Toll Free: (888) 922-7847

Fax: (509) 922-9879

Arrow Construction Supply

4 Locations to Serve You

Spokane
(509) 922-7847
9915 E. Trent Ave.
Spokane, WA 99206

Sandpoint
(208) 265-2434
477227 Hwy 95 North
Ponderay, ID 83852

Coeur d'Alene
(208) 772-4076
6520 N. Government Way
Dalton Gardens, ID 83815

Boise
(208) 871-5142
7070 Hwy 20 / 26
Nampa, ID 83687

Jan/2011