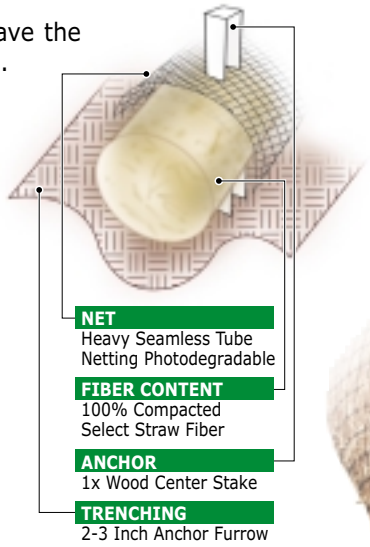
Straw Wattle Slope Stabilization & Point Source Sediment Control Device

Straw Wattle Properties Certification

The straw Wattle slope interruption device (SID) to have the following minimum physical properties and test values.



Application & Design Information Table

Performance Property	Value
BMP Device Type (SID)	9" Wattle
Sediment Retention Capacity (lbs/lft.)	30
De-Stabilizing Moisture Retention (%)[1]	11**
Functional Capacity Duration- (Minutes) [1]	350***
Physical Property	
Unit Weight (lbs/lineal ft.)	1.6
Functional Longevity (Months)	24
Installed Free Board Height (Inches)	7
University Laboratory Tested	Yes
Additional On Site Rolling Required	No
Manufactured Ready To Use (RTU)	Yes
Seamless Construction	Yes
Best Available Technology (CWA) *	Yes

1 Functional capacity was determined by application of consecutive 10-year storms at 24-hour intervals (No overtopping occured).
* Clean Water Act (CWA) Sections 301 & 402 provisions require controls of pollutant discharges that utilize best available technology.
** Certain soil types have a tendency to become de-stabilized by a concentrated high level of moisture retention (Super Saturation).
*** Minutes of elapsed time - Rainfall was applied until sendiment-laden water over-topped the device (Functional Capacity Breached).

The straw Wattle slope Interruption Devices (SID) to meet the following requirements:

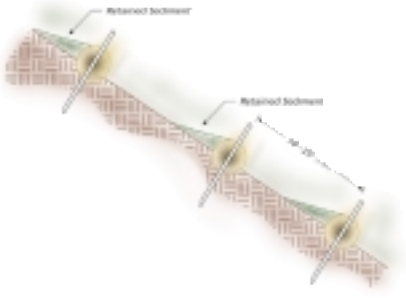
1. The straw Wattle Slope Interruption Devices (SID) are elongated tubes of compacted select straw fibers that are installed along contours or at the base of slopes to help reduce soil erosion and retain sediment. SIDs function by shortening slope length, reducing runoff water velocity, trapping dislodged soil particles and ameliorating the effects of slope steepness. SID's are used as water flow dissipaters trapping sediment when located prior to Drain Inlets (D.I.) etc. SID's are highly effective when they are used in combination with other surface soil erosion/re-vegetation practices such as surface roughening, straw mulching, erosion control blankets, hydraulic mulching and application of bonded fiber matrix or other hydraulic soil stabilizers.

2. The straw wattle (SID) shall be a straw-filled tube of flexible netting material exhibiting the following properties. It shall be a machine-produced tube of compacted rice straw that is Certified Weed Free Forage under California Food & Agriculture Code Sec. 5101-5205, by a manufacturer whose principle business is wattle manufacturing. The netting shall consist of seamless, high-density polyethylene and ethyl vinyl acetate and contain ultra violet inhibitors.

3. The straw Wattle SID to be a Greenfix America Rice Straw Wattle or an approved performance equivalent.

Testing And Properties

Parameter	Test Method	Units	Min. Value
Mass per Unit Weight	Field Measured	(lbs/ft)	1.6
Dimension	Field Measured	(Dia/Inches)	8.0-9.0
Net Strand Thickness	Field Measured	(Inches)	0.030
Net Knot Thickness	Field Measured	(Inches)	0.055
Netting Unit Weight	Certified	(Ounces/ft)	0.35
Sediment Retention Capacity	Rainfall Sim.[1]	(lbs/ft)	30
Installed Free-Board Ht.	Field Measured	(Height/Inches)	7.0
Fiber Content	Certified	%	100
Soil Loss	Rainfall Sim.[1]	% Effectiveness	58



This specification does not apply to other types of straw logs or fiber rolls such as rolled erosion control straw or wood fiber blankets rolled up to create an imitated wattle type device.