

residential vegetated filter strips

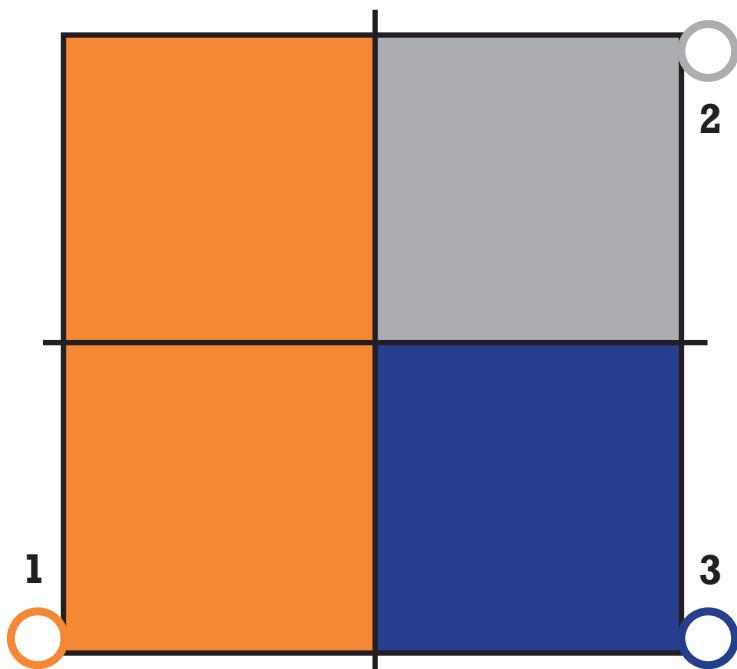
VEGETATED FILTER STRIPS are uniform strips of dense turf, meadow grasses, trees or other vegetation with a minimum slope to treat the water flowing from impervious surfaces. In certain circumstances a large lawn that receives runoff from impervious areas of a property may meet the criteria for a grass filter strip.

installation standards:

To obtain an individual residential property credit for vegetated filter strips the following criteria must be met:

- a. 50% of the property's roof area must drain to the vegetated filter strip.
- b. Runoff from downspouts must be dispersed using splash block prior to reaching filter strip.
- c. The slope of a vegetated filter strip must be greater than 1% and less than 5%.
- d. Filter strips must be fully vegetated, and vegetation must be kept healthy.
- e. Vegetated filter strips must have a minimum length of 50 feet, but should be designed to provide a length based on their slope within the ranges noted on the next page.

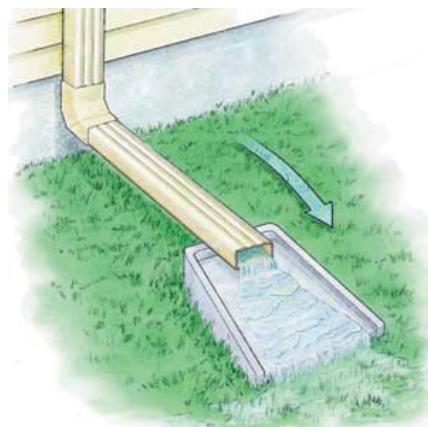
Example roof showing drainage area to downspouts to vegetated filter strips



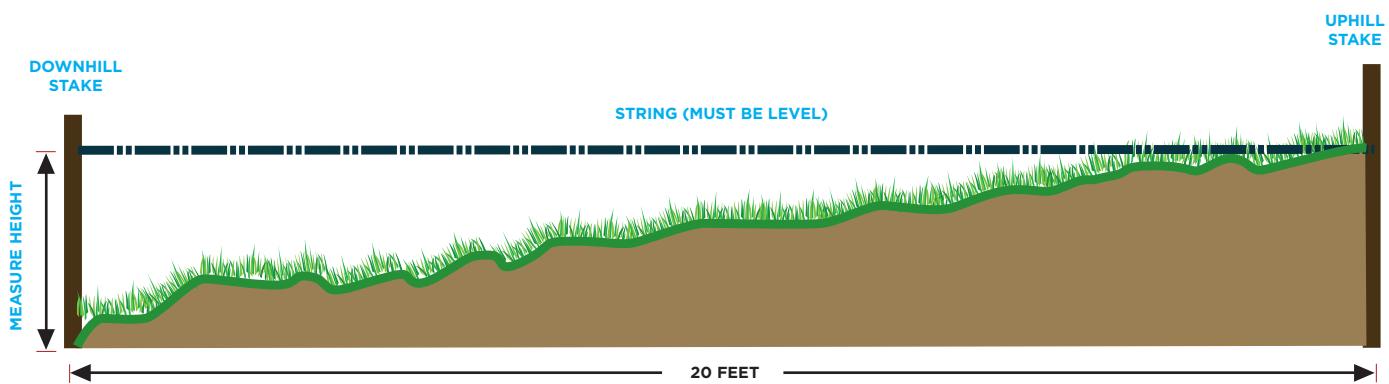
Examples of downspouts for vegetated filter strips

Downspout 1—Drains the orange area (1/2 of roof)
Downspout 2—Drains the grey area (1/4 of roof)
Downspout 3—Drains the blue area (1/4 of roof)

To be eligible for the credit either Downspout 1 or both Downspouts 2 and 3 need to outlet to vegetated filter strips.



how to measure the slope of a residential vegetated filter strip:



Height of string at downhill stake	Approximate slope of filter strip	Minimum length of filter strip
2.5 inches	1%	50 feet
5 inches	2%	120 feet
7 inches	3%	135 feet
10 inches	4%	170 feet
12 inches	5%	210 feet

maintenance guidelines:

1. Maintain healthy vegetation along the filter strip. If planted with grass, the height should be at least 3 to 4 inches.
2. If erosion occurs causing rills and gullies, repair and stabilize.
3. Check splash blocks twice a year to make sure they are not broken or deteriorating. Replace as needed.