

residential vegetated filter strips

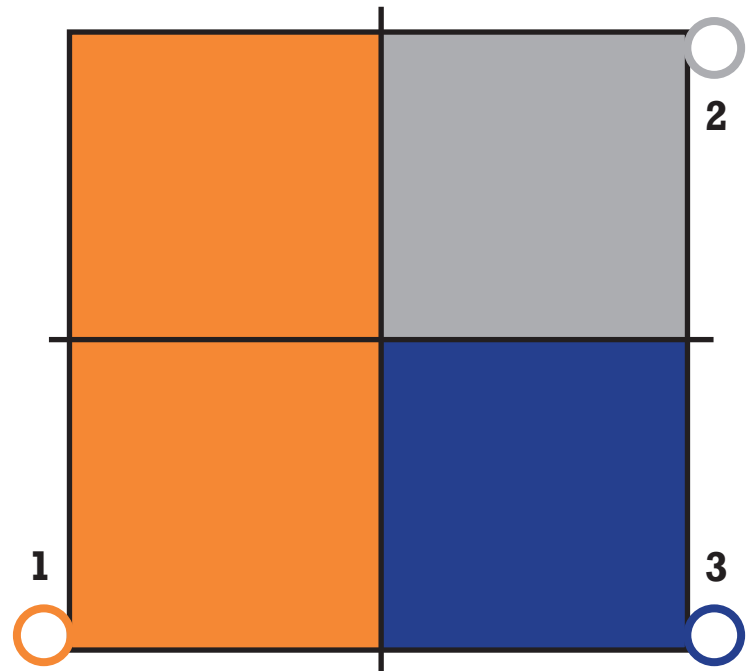
VEGETATED FILTER STRIPS are uniform strips of dense turf, meadow grasses, trees or other vegetation with a minimum slope to treat the water flowing from impervious surfaces. In certain circumstances a large lawn that receives runoff from impervious areas of a property may meet the criteria for a grass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

installation standards:

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

- 50% of the property's roof area must drain to the vegetated filter strip.
- Runoff from downspouts must be dispersed using splash block prior to reaching filter strip.
- The slope of a vegetated filter strip must be greater than 1% and less than 5%.
- Filter strips must be fully vegetated, and vegetation must be kept healthy.
- 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

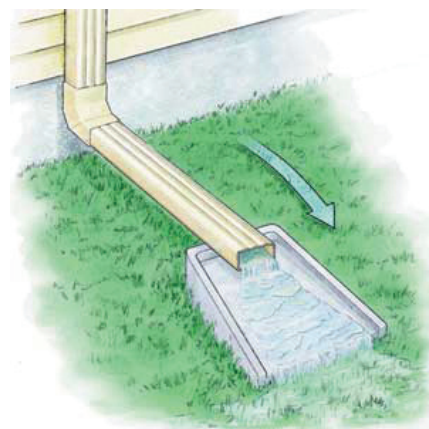


Downspout 1—Drains the orange area (1/2 of roof)

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

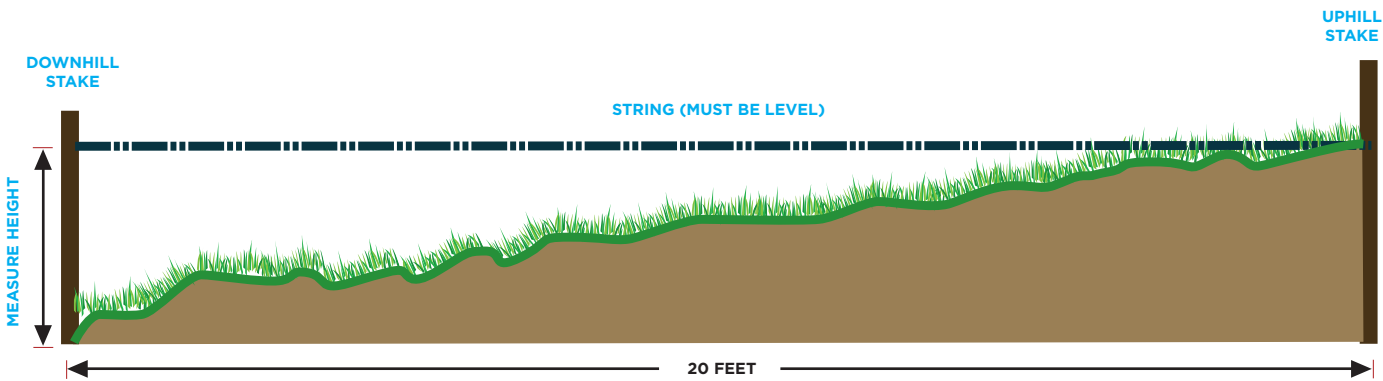
Downspout 3—Drains the blue area (1/4 of roof)

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



Examples of downspouts for 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.