

August 17, 2011

**Re: Filtrex SiltSoxx® Pyramid Design and Construction**

Filtrex International has recently developed a pyramid stack design for SiltSoxx for use in perimeter control applications. This method can be used to combine several smaller diameters SiltSoxx, to equal the design capacity of one larger diameter SiltSoxx. Please reference the attached design chart and staking diagram for clarification on sizing and installation.

**General Installation**

Installation guidelines and specifications for Filtrex SiltSoxx® shall be followed with the addition of the following procedures if the pyramid configuration is utilized.

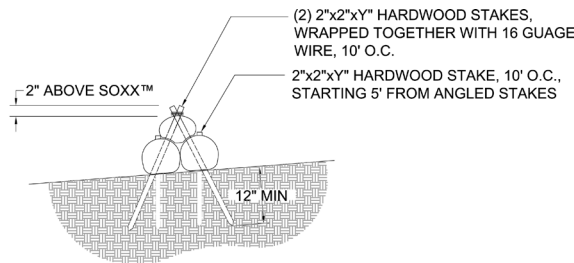
For pyramid configuration, all SiltSoxx shall be the same diameter, with two placed tightly adjacent, with no gap in between, at the base level; and one placed on top and in the middle of the two base layer SiltSoxx. Please direct any technical or design related questions to Filtrex International.

**Table. 3** Maximum Slope Lengths for Compost Socks for Sediment Control Based on a 2 in (50 mm)/24 hr Rainfall Event.

Slope Percent	Diameter of Compost Sock							
	8 in (200 mm)	12 in (300 mm)	16" Pyramid (3 x 8" [200mm])	18 in (450 mm)	24 in (600mm)	24" Pyramid (3 x 12" [300mm])	32 in (800mm)	36" Pyramid (3 x 18" [450mm])
2 (or less)	300 (90)	375 (110)	500 (150)	500 (150)	650 (200)	650 (200)	850 (260)	850 (260)
5	200 (60)	250 (75)	275 (85)	275 (85)	325 (100)	325 (100)	400 (120)	400 (120)
10	100 (30)	125 (35)	150 (45)	150 (45)	200 (60)	200 (60)	275 (85)	275 (85)
15	70 (20)	85 (25)	100 (30)	100 (30)	160 (50)	160 (50)	225 (70)	225 (70)
20	50 (15)	65 (20)	70 (20)	70 (20)	130 (40)	130 (40)	180 (55)	180 (55)
25	40 (12)	50 (15)	55 (16)	55 (16)	100 (30)	100 (30)	150 (45)	150 (45)
30	30 (9)	40 (12)	45 (13)	45 (13)	65 (20)	65 (20)	100 (30)	100 (30)
35	30 (9)	40 (12)	45 (13)	45 (13)	55 (18)	55 (18)	75 (23)	75 (23)
40	30 (9)	40 (12)	45 (13)	45 (13)	50 (15)	50 (15)	60 (38)	60 (38)
45	20 (6)	25 (8)	30 (9)	30 (9)	40 (12)	40 (12)	50 (15)	50 (15)
50	20 (6)	25 (8)	30 (9)	30 (9)	35 (10)	35 (10)	40 (12)	40 (12)

\* Based on a failure point of 36 in (0.9 m) super silt fence (wire reinforced) at 1000 ft (303 m) of slope, watershed width equivalent to receiving length of sediment control device, 2 in/ 24 hr (50 mm/24 hr) rain event.

\*\* Effective height of Sediment control after installation and with constant head from runoff as determined by Ohio State University.



**FILTREXX® PYRAMID STACK DETAIL**

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