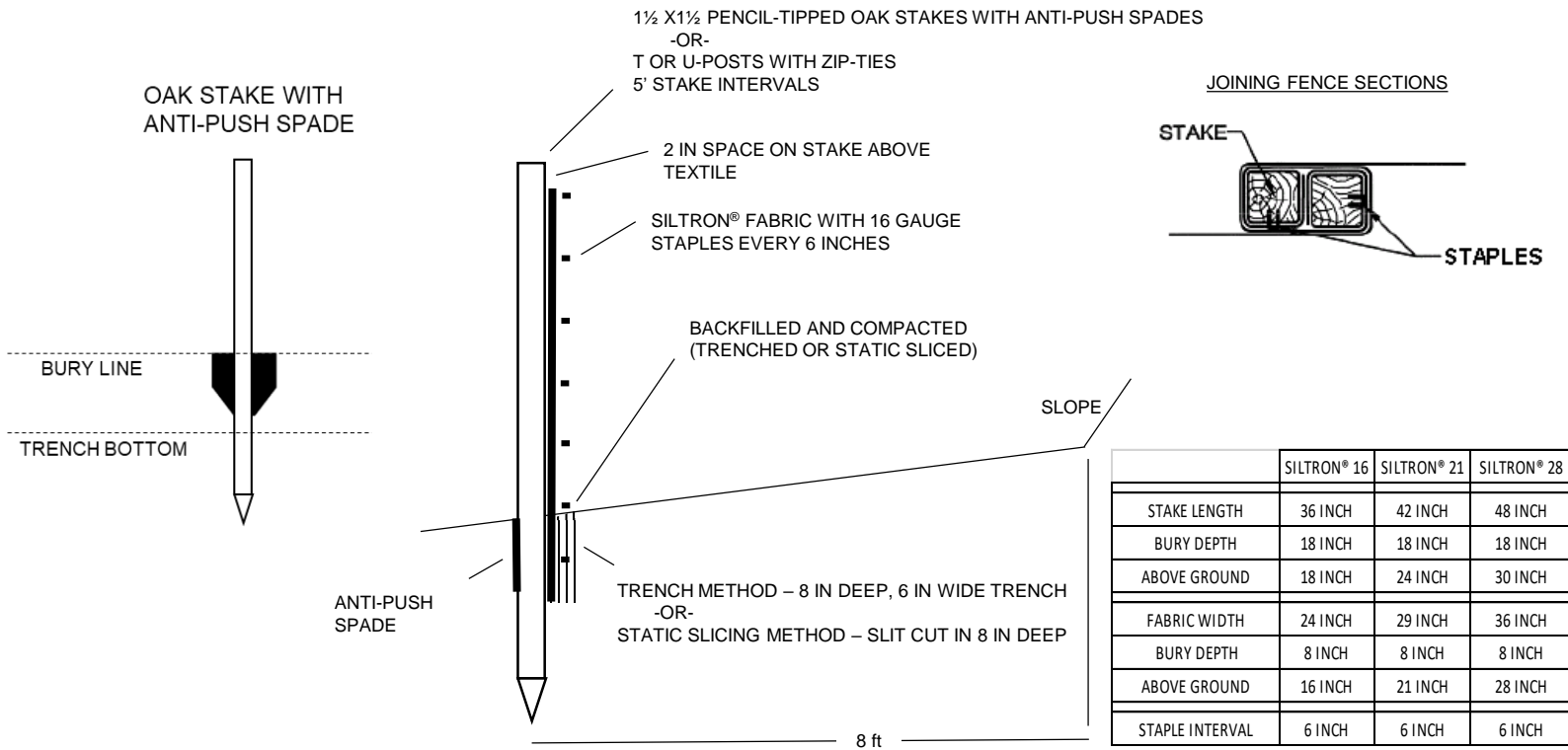


STANDARD CONSTRUCTION DETAIL

SILTRON® POLLUTION PREVENTION FENCE



Wood stakes shall be a 1 ½ x 1 ½ pencil-tipped oak stake and **must** include integrated anti-push spade –or- equivalent steel (U or T) stake. Stakes placed at 5' intervals. Fence shall be placed at level existing grade. Both ends of fence shall be extended at least 8 feet up slope at 45 degrees to main fence alignment. Sediment shall be removed when accumulations reach half the above ground height of the fence. Any section of fence which has been compromised through physical damage or is blinded with sediment or hydrocarbons shall be immediately replaced with Siltron, rock filter outlet configuration, or filter sock (compost or switchgrass). If undercutting occurs, fill must be added to trench and area re-compacted. Fence shall be removed and properly disposed of when tributary area is permanently stabilized.

PARAMETERS	REGULATORY MINIMUMS	EXAMPLE (Siltron®)
Fabric Construction Type	3-layer needle-punched composite	3-layer needle-punched composite
Hydrocarbon Retention	5 oz per square foot	5 oz per square foot
Fabric Width		
16 inch above ground, 8 inch bury	24 inches	24 inches (Siltron® 16)
21 inch above ground, 8 inch bury	29 inches	29 inches (Siltron® 21)
28 inch above ground, 8 inch bury	36 inches	36 inches (Siltron® 28)
Fabric Thickness (ASTM 5199)	7.50 mm ±10% (295 mils)	7.95 mm ±10% (313 mils)
Fabric Weight, oz/yd ²	30 oz/yd ²	33.7 oz/yd ²
Grab Tensile (ASTM D 4632)		
MD	300 lbs	405 lbs
TD	200 lbs	210 lbs
Elongation (ASTM D 4632)		
MD	25% at failure (300 lbs)	21% at failure (405 lbs)
TD	25% at failure (200 lbs)	8.7% at failure (210 lbs)
Puncture Strength (ASTM D 4833)	200 lbs	224 lbs
Trapezoidal Tear (ASTM D 4533)		
MD	125 lbs	142 lbs
TD	125 lbs	135 lbs
Mullen Burst Strength (ASTM D 3786, modified)	700 lbs	759 lbs
Apparent Opening Size (ASTM D 4751)	.120 mm (non-w oven composite)	.142 mm (non-w oven composite)
Permittivity (ASTM D 4491)	45 gpm/ft ²	46.2 gpm/ft ²
UV Stability (ASTM D 4355)	100%	100%
Filtering Efficiency and Flow rate (ASTM 5141)		
Clear Water Rate, gal/m/ft ²	15 gpm/ft ²	17.8 gpm/ft ²
Silty Clay Rate	1.50 gpm/ft ²	1.51 gpm/ft ²
Filtering Efficiency and Flow rate (ASTM 5141)	96.0%	97.9%

Slope %	Siltron 16	Siltron 21	Siltron 28	Siltron 36
2	700	1000	1300	1750
5	375	500	650	875
10	240	300	400	550
15	200	250	350	475
20	140	200	250	335
25	100	150	180	245
30	75	100	125	175
35	60	85	100	135
40	50	75	90	120
45	45	60	80	110
50	40	50	60	80