

# SMARTFENCE® 36

## HIGH-TENSILE / HIGH-MODULUS WOVEN GEOTEXTILE SEDIMENT FENCE

SMARTfence 36 is a heavy-duty woven geotextile sediment fence. Designed using a value engineering approach, it is equivalent in strength and stiffness to that of wire or chain-link backed silt fence for less money, significantly lower carbon emissions and less material waste.

The woven geotextile fence is specifically designed and fabricated to withstand high-tensile stresses and to prevent excessive material elongation and strain. It is built to resist fence deflection and ultimate failure due to ripping, sagging, or overturning from forces associated with excessive backwater depths, debris flows and overtopping.

### AVAILABLE UNITS

- ACFSMF36 x 300
- ACFSMF36 x 50 with stakes
- ACFSMF36 x 900

### ADVANTAGES

- No wire or chain-link backing necessary
- High-tensile / high-modulus - able to resist fence deflection and failure
- Reduced labor costs
- NTPEP Compliant (GTX-2021-01-073)
- U.S. Patented



**SMARTfence**

For more information about Silt Fences, contact Inside Sales at **800.448.3636**  
or [infogeo@ferguson.com](mailto:infogeo@ferguson.com) or visit us at [fergusongss.com](http://fergusongss.com)



## SPECIFICATIONS

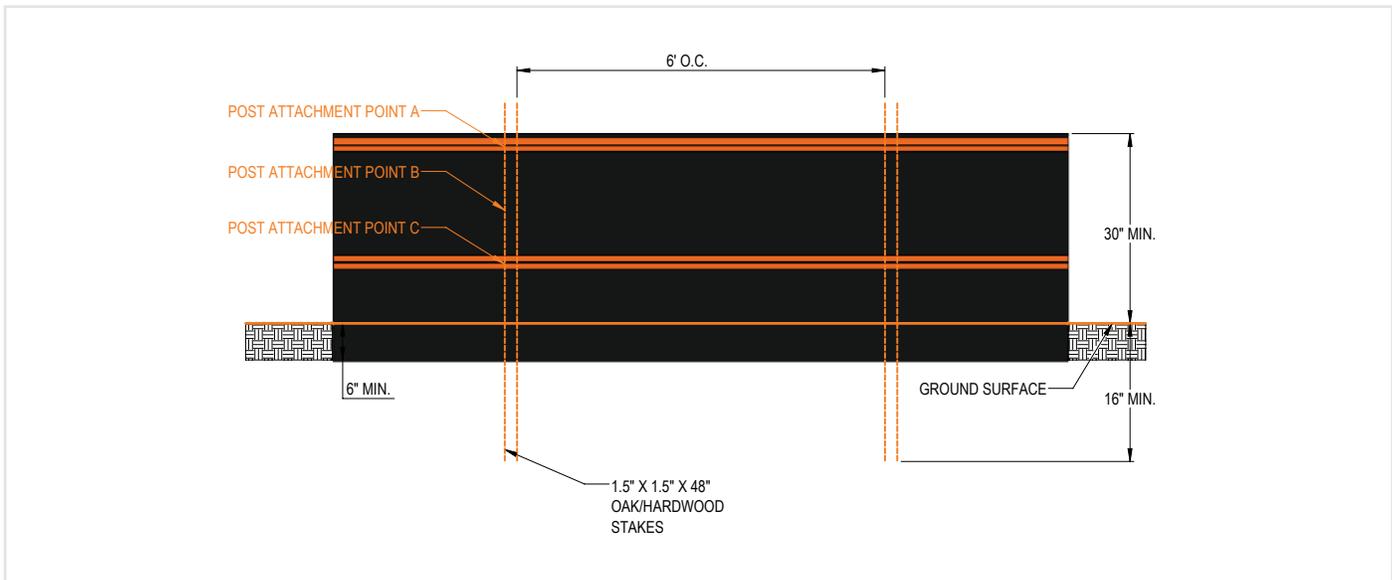
PROPERTY	TEST METHOD	MINIMUM AVERAGE ROLE VALUES (MARV)
Wide Width Tensile Strength	ASTM D 4595	>3,900 lbs/ft - MD x >1,700 lbs/ft - TD
Wide Width Test Elongation	ASTM D 4595	<14% - MD x <10% - TD
Grab Tensile Strength	ASTM D 4632	>450 lbs - MD x >200 lbs - TD
CBR Puncture	ASTM D 6241	>1,400 lbs
Trapezoidal Tear	ASTM D 4533	>175 lbs - MD x >70 lbs - TD
Apparent Opening Size	ASTM D 4751	Sieve #70
Water Flow Rate	ASTM D 4491	>25 gpm/sf
UV Stability	ASTM D 4355	>90% strength retained - MD
Permittivity	ASTM D4491	0.32 sec-1
Pore Size - O95	ASTM D6767	155 microns

The below table shows a comparison of 14-gauge wire-backing fence and 12.5 gauge chain-link fence structural characteristics versus SMARTfence 36. The modulus of elasticity is a measure of material stiffness.

## STRUCTURAL COMPARISONS BETWEEN WIRE AND CHAIN-LINK BACKING VERSUS SMARTFENCE 36:

	14-Gauge Wire Fence 2"X4" Mesh	12.5 Gauge Chain-Link Fence 2 3/8" Mesh	SMARTfence® 36 (MARV)
Average Breaking Tensile Strength (lb/ft)	710 (Average)	1,930 (Average)	>3,900 (MARV)
Average Modulus of Elasticity (lb/ft)	2,600 lengthwise 19,400 widthwise	9,422 lengthwise 7,600 widthwise	>27,000 lengthwise

## DESIGN



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