

SMARTFENCE® 42



HIGH-TENSILE/HIGH-MODULUS WOVEN GEOTEXTILE SEDIMENT FENCE

SMARTfence 42 is a heavy-duty, high-tensile/high-modulus, 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. This 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

- ACFSMF42 x 100
- ACFSMF42 x 300

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-2021-01-072)
- U.S. Patented



SMARTfence

For more information about Silt Fences, contact Inside Sales at **800.448.3636** or **info@ferguson.com** or visit us at **fergusongss.com**

SPECIFICATIONS

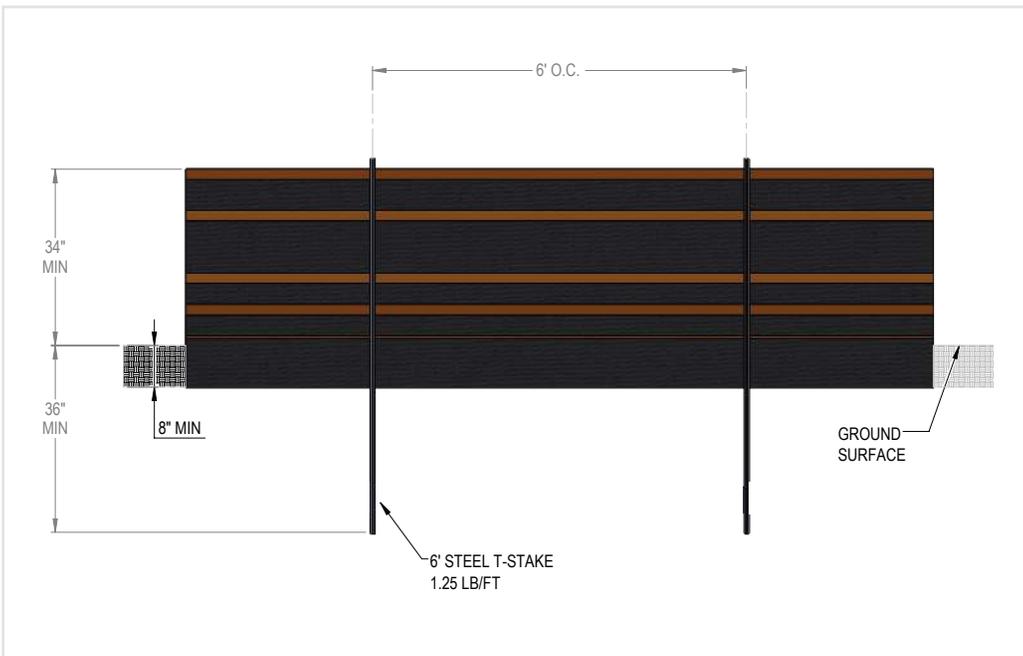
PROPERTY	TEST METHOD	MINIMUM AVERAGE ROLE VALUES (MARV)
Wide Width Tensile Strength	ASTM D 4595	>5,125 lbs/ft - MD x >4,275 lbs/ft - TD
Wide Width Test Elongation	ASTM D 4595	<10% - MD x <7% - TD
Grab Tensile Strength	ASTM D 4632	>445 lbs - MD x >410 lbs - TD
CBR Puncture	ASTM D 6241	>1,800 lbs
Trapezoidal Tear	ASTM D 4533	>210 lbs - MD x >195 lbs - TD
Apparent Opening Size	ASTM D 4751	Sieve #70
Water Flow Rate	ASTM D 4491	>32 gpm/sf
UV Stability	ASTM D 4355	>90% strength retained - MD
Permittivity	ASTM D4491	0.43 sec-1
Pore Size - O95	ASTM D6767	180 microns

The below table shows a comparison of 14-gauge wire-backing fence and 9-gauge wire-backing fence structural characteristics versus SMARTfence 42. The modulus of elasticity is a measure of material stiffness.

STRUCTURAL COMPARISONS BETWEEN WIRE AND CHAIN-LINK BACKING VERSUS SMARTFENCE 42:

	14-Gauge Wire Fence 2"X4" Mesh	9 Gauge Wire Fence 2 3/8" Mesh	SMARTfence® 42
Average Breaking Tensile Strength (lb/ft)	710	4,100	>5,125 (Average)
Average Modulus of Elasticity (lb/ft)	2,600 lengthwise 19,400 widthwise	21,100 lengthwise 21,700 widthwise	>48,000 lengthwise >38,000 widthwise

DESIGN



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