

MATERIAL PROPERTY DATA SHEET

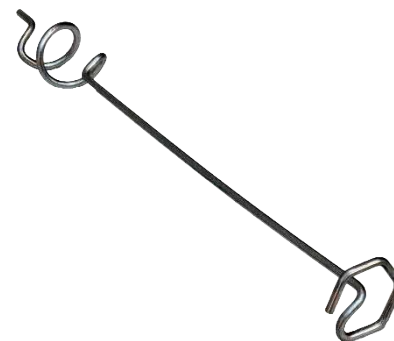
FALCON PINS™

HS-12

US Patent #:12,410,575

Description

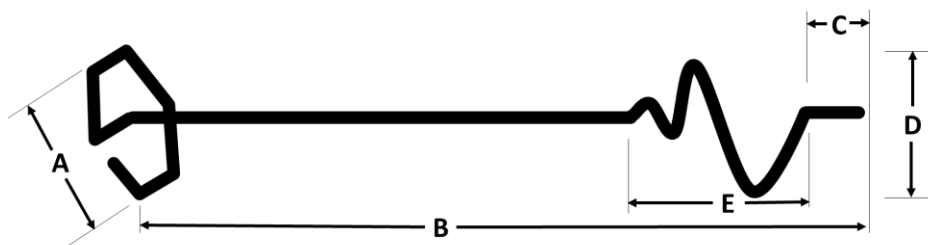
Falcon Pins by Western Green are a patent-pending fastener designed to secure erosion control mattings in place with a pull-out strength up to 10 x that of sod staples. The Falcon HS-12 has a unique 'corkscrew' coil configuration using 0.16" (4.0mm) diameter wire. The HS-12 is designed for soft, sandy and silty soils. With the 'hex head' shape, the HS-12 pins are easy to install using a hand drill with a 1.5" socket attachment. For faster and easier installation, a custom driving socket is available. HS-12 pins are galvanized, made in the USA and can be installed on ARRA projects.



Dimensions and Performance

HS-12 Dimensions – in (cm)

Hex Diameter (A)	1.5 (3.8)
Twist Pin Length (B)	12.0 (30)
Tail Length (C)	0.5 (1.3)
Coil Diameter (D)	1.3 (3.2)
Coil Length (E)	2.5 (6.4)



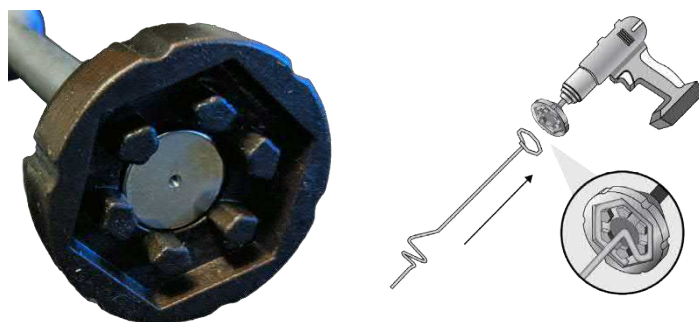
HS-12 Performance

Pullout Resistance	Up to 250 lb (1.1 kN)
* Pullout resistance will vary based on soil type and conditions.	

Falcon Hex Pins show superior pullout resistance compared to standard fasteners. Pullout resistance will vary based on soil type. A pullout test should be conducted to verify in-situ stability. A minimum 20 lbs of pullout resistance is required for use with rolled erosion control products. HS-12 pins are optimized for loose, sandy and silty type soils.

Installation

- HS-12 pins can be installed with an 'off-the-shelf' 1.5" socket. A custom socket for improved performance is shown to the right.
- Ensure the tip is pushed below the TRM before drilling into ground to avoid entanglement.
- Ensure no debris is on the Falcon Pin before drilling. Debris may cause TRM fibers to entangle.
- With light-weight nets, keep tension on blanket.



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