

MATERIAL PROPERTY DATA SHEET

FALCON PINS™

HR-8

US Patent #:12,410,575

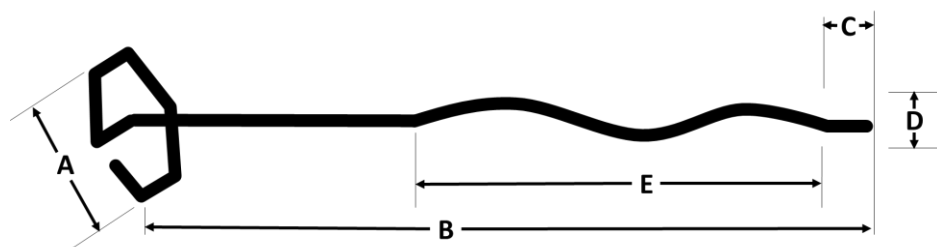
Description

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 HR-8 has a unique 'corkscrew' coil configuration using 0.16"(4.0mm) diameter wire. The HR-8 is designed for hard, rocky soils. With the 'hex head' shape, the HR-8 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. HR-8 pins are galvanized, made in the USA and can be installed on ARRA projects.



Dimensions and Performance

HR-8 Dimensions – in (cm)	
Hex Diameter (A)	1.5 (3.8)
Twist Pin Length (B)	8.0 (20)
Tail Length (C)	0.5 (1.3)
Coil Diameter (D)	0.3 (0.7)
Coil Length (E)	3.0 (7.6)

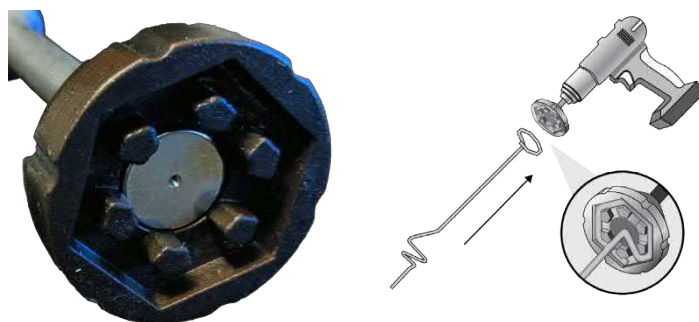


HR-8 Performance	
Pullout Resistance	Up to 100 lb (450 N)
* Pullout resistance will vary based on soil type and conditions.	

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. HR-8 pins are optimized for hard, rocky soils.

Installation

- HR-8 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.



Disclaimer: The information contained herein may represent product index data, performance ratings, bench scale testing or other material utility quantifications. Each representation may have unique utility and limitations. Every effort has been made to ensure accuracy; however, no warranty is claimed, and no liability shall be assumed by Western Green or its affiliates regarding the completeness, accuracy, or fitness of these values for any particular application or interpretation. While testing methods are provided for reference, values shown may be derived from interpolation or adjustment to be representative of intended use. For further information, please feel free to contact Western Green.

©2021, Falcon Anchors is a registered trademark from Western Green. Certain products and/or applications described or illustrated herein are protected under one or more U.S. patents. Other U.S. patents are pending, and certain foreign patents and patent applications may also exist. Trademark rights also apply as indicated herein. Final determination of the suitability of any information or material for the use contemplated, and its manner of use, is the sole responsibility of the user. Printed in the U.S.A.



FCN_MPDS_HR8_11-21

