

FALCON ANCHORS™ & FALCON HEX PINS™

Falcon Anchors and Pins can be used to create erosion control systems designed to firmly secure and support soils deep into the soil strata. These are used for permanent installations utilizing our TRM and HPTRMs.

April 2023		Anchor Reinforced Vegetated System (ARVS) with Falcon Anchors™				
Assembly/Part	F80-Z	F80-X	F120-Z	FL120-Z6	FL170-Z6	
Cap	4" Dia, Zinc Alloy	4" Dia, Zinc Alloy	4" Dia, Zinc Alloy	6" Dia, Zinc Alloy	6" Dia, Zinc Alloy	
Grip	Spring-Loaded Ceramic Crush Roller	Spring-Loaded Ceramic Crush Roller	Spring-Loaded Ceramic Crush Roller	Spring-Loaded Ceramic Crush Roller	Spring-Loaded Ceramic Crush Roller	
Cable	1/8" Dia. ZA Coated Steel, 3 ft	1/8" Dia. ZA Coated Extra Strong Steel, 3 ft	1/8" Dia. ZA Coated Steel, 3 ft	1/4" Dia. ZA Coated Steel, 6 ft	1/4" Dia. ZA Coated Steel, 6 ft	
Anchor	Zinc Alloy 3.1" (80mm) x 1.30" (33mm)	Zinc Alloy 3.1" (80mm) x 1.30" (33mm)	Zinc Alloy 4.7" (120mm) x 1.57" (40mm)	Zinc Alloy 4.7" (120mm) x 1.57" (40mm)	Zinc Alloy 6.7" (170mm) x 2.17" (55mm)	
Anchor Bearing Area	3.4 in ² (2209 mm ²)	3.4 in ² (2209 mm ²)	6.0 in ² (3871 mm ²)	6.0 in ² (3871 mm ²)	13.0 in ² (8387 mm ²)	
Typ. Working Load	650 lbs	750 lbs	650 lbs	2,000 lbs	2,000 lbs	
Max Working Load	1,100 lbs	1,300 lbs	1,100 lbs	3,600 lbs	3,600 lbs	
Ultimate Assembly Strength	1,300 lbs	1,500 lbs	1,300 lbs	4,000 lbs	4,000 lbs	
Ultimate Cable Strength	1,700 lbs	2,000 lbs	1,700 lbs	7,000 lbs	7,000 lbs	
Typical Use	Workhorse Assembly	High Strength Light Assembly	Soft Soil Workhorse Light Assembly	Hard Soil Heavy Assembly	Standard/Soft Soil Heavy Assembly	

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April 2023

Anchor Reinforced Vegetated System (ARVS) with Falcon Hex Pins™

Material Properties	Dimensions	HS-8	HS-12	HC-8	HC-12
	Hex Diameter	1.5 in	1.5 in	1.5 in	1.5 in
	Twist Pin Length	8.0 in	12.0 in	8.0 in	12.0 in
	End Length	0.75 in	0.75 in	4.0 in	4.0 in
	Coil Diameter	1.25 in	1.25 in	1.0 in	1.0 in

Falcon Hex Pins can be used in conjunction with just about any RECP, however, they are ideally suited to TRM tie-down. The large-diameter head gives ample catch without the need for additional washers. In comparison to other fasteners, Falcon Hex Pins provide up to ten times the pullout resistance of other fasteners. Typically, a minimum of 25-50 pounds of pullout resistance is required for a TRM installation. In soil soils, staples or straight pins may only provide 10-15. Falcon Hex Pins make these projects viable with greater than sufficient pullout in poor soils.

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