



TITAN

BUILD YOUR LEGEND

E-Fence™ System Guide

Wildlife-Exclusion Fence

By ERTEC Environmental Systems

GUIDE SPECIFICATION

ERTEC E-Fence™ System

ERTEC E-Fence™ Wildlife Exclusion Fence or Directional Control Barrier for Special-Status Small Vertebrates

- Construction Site Wildlife Exclusion Fence
- Directional Control in Fragmented Habitat
- Road Ecology Applications

E-Fence™ has options which allow the barrier to provide a Triple Function Capability: 1) Wildlife Exclusion, 2) High Visibility Safety, and 3) Sediment Control – eliminating the need for separate fence lines. See Section D for other options: Options and Accessories.

PRODUCT:

E-Fence™ (US Patent #8402630, #9816239, #10905090 other US & Int'l applications pending)

MANUFACTURER:

ERTEC®
1150 Ballena Blvd. Suite 250
Alameda, CA 94501

1.0 Description:

E-Fence™ is a Wildlife Exclusion Fence or Directional Control Barrier for special-status small vertebrates and shall conform to the details shown on the plans and these special provisions. It shall be installed around the perimeter of construction sites or for road ecology applications, or as per biologist's layout to control movement in fragmented habitat as a directional barrier. The primary function of E-Fence is to exclude special-status small vertebrates from construction sites or road surfaces where they can be killed, injured or isolated. E-Fence can also provide directional control within fragmented habitat.

2.0 Material:

Provide E-Fence as shown on the plans.

A. Product and Installation Sheets. A copy of the manufacturer's product data sheet together with instructions for installation of specified options shall be furnished to the Engineer 5 days before installation.

B. Barrier Configuration. Furnish E-Fence with a configuration based on the species or combination of species to be controlled as per Table B. Furnish barrier in minimal 100-to-150-foot segments (10" width at 150 feet, 20" width at 150 feet, 24" width at 150 feet, 30" width at 150 feet, 36" width at 150 feet, 42" width at 100 feet, 48" width at 100 feet or 60" width or greater at 100 feet to minimize segment overlaps. Minimize section overlaps.

C. Barrier Materials & Structure. Furnish E-Fence manufactured from non-biodegradable materials which are UV and dimensionally stable for up to 10 years. The system shall:

- a. Comprise a monolithic rigid polymer matrix
- b. Be thermally extruded into an apertured sheet with rigid and thermally bonded stands
- c. Be made from virgin or recycled HDPE (high density polyethylene) feedstock which has a readily available recycle stream
- d. Have greater than 50% open Area (POA) to prevent the following: undermining from stormwater runoff, chaotic, turbulent wind flows that can pose a desiccating threat to moisture sensitive animals and knockdown damage from wind and stormwater runoff
- e. Be durable, to achieve negligible maintenance or so that it can be reused on several projects

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- f. be recyclable at the end of life – zero waste.
- g. conform to the requirements in Table A below

D. Options and Accessories

a. Exclusion Fence Color:

- i. **High Visibility Orange:** High visibility Orange allows E-Fence™ to double as a High Visibility Construction Safety Fence possibly eliminating the need for a separate fence line. Can be part of a Triple Function Fence:

1. Exclusion, 2. High Visibility Safety, 3. Sediment Control.

- ii. **Black:** provides UV stability for long-term or permanent requirements.

b. One-Way Escape Funnels (spacing determined by project biologist)

i. Funnel Size Options

- 1. 8x8" Entrance x 2x2" Exit
- 2. Custom sizes available

ii. Exit door options:

- 1. No door, external flap door, internal flap door, mammal exit

iii. Funnel Ramp/Floor Options

- 1. Natural earth-bed substrate, or
- 2. Polymer Matrix substrate

- iv. **Flow-Through Visual Barriers:** Visual barriers provide opacity, yet still allow high stormwater flow-thru at the base of the fence. The visual barrier rests on grade and attaches to E-Fence during installation.

- 1. Heights: 4", 6" 8"

- c. **Sediment Control Panel:** The E-Fence Sediment Control Panel is available in 150' rolls, mates to E-Fence during installation, is installed in the same trench and can eliminate the requirement for a separate silt fence and or wattles (fiber rolls). While Wildlife Exclusion Fence is often installed around the perimeter of the job site, sediment control is required only on the down-stream areas of the project (typically less than half the footage required for exclusion fence). The Sediment Control Panel allows E-Fence™ to double as a silt fence, eliminating the need for a separate fence line. Can be part of a Triple Function Fence 1. Wildlife Exclusion, 2. High Visibility Safety, 3. Sediment Control. Submit copy of the manufacturer's installation guidelines.

- d. **No-Trench Ground Seal Options:** No-Trench Ground Seal options are available for soil and or hard surfaces. Submit copy of the manufacturer's installation guidelines for the type of No-Trench Ground Seal option found on plans.

- 1. Clam-shell type or
- 2. Apron type

e. Climber Barrier Options:

- 1. 5" Climber Barrier Lip (reptiles/amphibians)
- 2. 8" Climber Barrier Lip (small mammals)
- 3. HDPE smooth belly band (small mammals)

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- f. **Temporary Entrance Gates & Panels:** The most difficult section of the exclusion fence to maintain is the entrance. Required to be closed and sealed at the end of each construction day, it is often assembled by the contractor from makeshift materials. Typically, the entrance is difficult for contractors to keep organized AND sealed. The E-Fence system makes it easy.

i. **Gate Frames**

1. Consider entrance opening.

- a. Single-Swing Personnel Gate Set: 4'
- b. Single-Swing Equipment Gate Sets: 8', 10', 12'
- c. Double-Swing Equipment Gate Sets: 12', 16', 20', or wider
- d. (custom sizes are available)

Submit copy of Manufacturer's installation guidelines.

ii. **Exclusionary Gate Panels:**

1. Exclusionary Gate panels can fit to existing permanent or chain-link gates or can be fit to E-Fence Temporary Gates to provide seal around the entrance with a ground sweep to allow opening and closing. Exclusionary Gate Panels are manufactured to fit all sizes of Temporary Gate Panels and/or existing site gates.

Submit copy of Manufacturer's installation guidelines.

E. Cover boards: Wildlife exclusion fences are designed to keep animals out of construction sites, but they temporarily disrupt their natural movements. Placed periodically along the fence line, (ie. 100 to 150 LF spacing), cover boards provide refuge opportunities from weather and predators. Coverboards shall be 3/8" sheathing plywood or any exterior rated treated plywood of equal or greater thickness.

F. Posts.

Installations requiring metal T-Posts shall use reusable metal T-Posts (0.95 lbs/ft minimum). Posts should be spaced as indicated on installation guidelines (see installation instructions for specific configuration and species). Spacing of posts is dependent on length of time the fence will be installed, the height of the fence and exposure to wind. In general, install posts on 5 foot centers (max) in areas of very high wind or for long-term or permanent installations and on 8 foot centers (max) for majority of installations. Install posts on 10 foot centers (max) when fence material is 42 inches width or less. It is permissible to use wooden stakes (1"x2"x36") for E-Fence™ width (height) of 24" or less, on 10-foot centers (max) for projects lasting 2 years or less.

G. Turnaround. Turnarounds are designed to provide directional guidance for small vertebrate animals. When configuring E-Fence into a turnaround, a minimum radius of 2' is required to allow animals enough space to maneuver through.

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Table A: Barrier Type: E-Fence material property requirements

Specification	Design Focus	Material Requirements HDPE or Recycled HDPE
Barrier Height	Specific Animal	See Configuration Table B column 2
Roll Lengths (widths 20, 24", 30, 40 to 42, 48, 60 in) (LF)	Minimize joints	100,150
Strand Deformation – 0.375" sphere pull-through at 68°F (lbs) (minimum)	Intrusion resistance, entrapment resistance	38
Distance between strands (in) (maximum)	Intrusion resistance, entrapment resistance	0.185
Strand thickness (in) (maximum)	Intrusion resistance, entrapment resistance	0.10
Distance between strand centers (in) (maximum)	Intrusion resistance, entrapment resistance	0.25
Mass per Unit Weight range (lbs/ft ²)	Installation ease	0.16 to 0.19
Tensile Strength – machine direction ASTM D4595 (lbs) (minimum)	Dimensional Stability	400
Tensile Strength – transverse direction ASTM D4595 (lbs) (minimum)	Dimensional Stability	325
Aperture Size – Cylinder PASS (dimensional range within which a cylinder will pass thru) (in)	Allow wind & water passage, prevent chaotic/turbulent wind flows which pose desiccation threat	0.141 - 0.156
Aperture Size – Cylinder NO PASS (smallest dimension that will not pass) (in)	Confine juvenile vertebrates	0.212
Ultraviolet stability - percent tensile strength retained ASTM D 4355	Long term property retention	96%
Thickness ASTM 5199 minimum (in)	Deformation and intrusion resistance	0.115
Expected Life in application (yrs) Black / Orange	Durability, Reusability	20 / 10
Friction Coefficient (published base polymer data)	Climbing resistance, Resist accumulation of organic materials	<0.3
Shore Hardness (base polymer data) at 68°F	Burrowing resistance	95
CBR Puncture strength ASTM D 6241 nominal (lbs)	Burrowing resistance, Intrusion resistance	237
Flow Rate ASTM D 4491 minimum gal/min/ft ²	Washout prevention	650
Percent Open Area (ASTM D 6767) (min)	Washout prevention, Protection from chaotic/turbulent wind flows which pose desiccation threat	50%
Low Temperature Brittleness (published base polymer data) ASTM D 746 (°F)	Extreme cold weather durability	-106
Operating Temp (base polymer data) range (°F)	All weather durability, Property retention	-30 to 160
Separation of stand planes (distance) (in - nominal)	Climbing resistance	0.02 - 0.04
Angle of strands (°)	Climbing resistance	70 to 80

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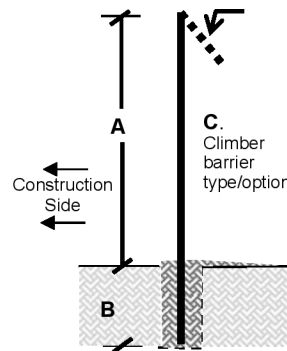
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3.0 Wildlife Exclusion Fence: Configurations by species – Current Approved Best Practices

Table B: Configuration requirements (Please note: 2 or more special-status-species are often in the same habitat. The design configuration should address the species with the highest capabilities (the design determinate species). If required, please call ERTEC for design guidance (510-521-0724).

Common Name (Scientific Name)	A. Barrier Height (in)	B. Trench Depth (min) (in)	C. Climber Barrier Type/Size	D. T-Postor Wood Post / Depth (min) (in)	E. One-Way Gateway / Funnel(Y/N)	Exclusion Fence Designation EF = E-Fence Digits = Sheet width (in) Letters: L= Climber Barrier, F= Funnel
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Frog Fence							
California red-legged frog (<i>Rana draytonii</i>)	38	5	L5	T18	N	EF48L	EF40/42L is an approved configuration, but most specifiers call for 48" width
Foothill yellow-legged frog (<i>Rana boylei</i>)	30	5	L5	T18	N	EF40/42L	
Northern cricket frog (<i>Acris crepitans</i>)	30	5	L5	T18	N	EF40/42L	
Chiricahua leopard frog (<i>Rana chiricahuensis</i>)	38	5	L5	T18	N	EF48L	EF40/42L is an approved configuration, but most specifiers call for 48" width EF40/42L is an approved configuration, but most specifiers call for 48" width
Northern leopard frog (<i>Rana pipiens</i>)	38	5	L5	T18	N	EF48L	
Sierra Nevada yellow-legged frog (<i>Rana sierrae</i>)	32	5	L5	T18	N	EF42L	
Sierra Madre yellow-legged frog (<i>Rana muscosa</i>)	32	5	L5	T18	N	EF42L	
Northern red-legged frog (<i>Rana aurora</i>)	32	5	L5	T18	N	EF42L	

Toad Fence: Below are the lowest cost, approved configurations for these Turtles/Terrapins but designers often call for 4' width and High Visibility Construction Safety.

Colorado River toad (<i>Bufo alvarius</i>)	18	12	L5	T24	N	EF36L	
Arroyo toad (<i>Bufo microscaphus californicus</i>)	20	5	L5	W18	N	EF30L	
Yosemite toad (<i>Bufo canorus</i>)	20	5	L5	W12	N	EF30L	
Western spadefoot toad (<i>Spea hammondi</i>)	18	12	L5	T24	N	EF36L	

Turtle/Terrapin/Tortoise Fence

Western pond turtle (<i>Actinemys marmorata</i>)	15	5	N	W18	N	EF20	
Blanding's turtle (<i>Emydoidea blandingii</i>)	15	5	N	W18	N	EF20	NY requires EF30
Common snapping turtle (<i>Chelydra serpentina</i>)	20	5	L5	T18	N	EF30L	Some specifiers require 42" width
Loggerhead sea turtle (<i>Caretta caretta</i>)	0"	N	N	T24	N	EF60	
Desert tortoise (<i>Gopherus agassizii</i>)	24	12	N	T24	N	EF36	T-posts are on 8' spacing for permanent installations
Wood turtle (<i>Glyptemys insculpta</i>)	13	6	L5	T24	Y	EF24L	Some specifiers require 30" width
Gopher tortoise (<i>Gopherus polyphemus</i>)	24	12	N	T18	N	EF36	Some specifiers require 48" width

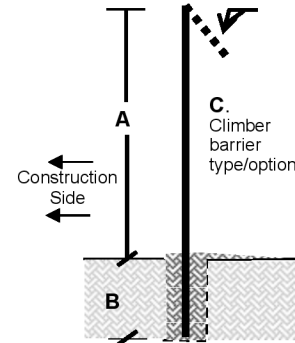
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Salamander / Newt Fence

Common Name (Scientific Name)	A. Barrier Height (in)	B. Trench Depth (min) (in)	C. Climber Barrier Type/Size	D. TPost or Wood Post / Depth (min) (in)	E. One-Way Gateway / Funnel(Y/N)	Exclusion Fence Designation	Notes
California tiger salamander (<i>Ambystoma californiense</i>)	10	5	L5	W18	Y	EF20L	Below are the lowest cost approved configurations for these Salamanders but designers often call for 4' width and High Visibility Construction Safety.
Santa Cruz long-toed salamander (<i>Ambystoma macrodactylum croceum</i>)	15	5	L5	W18	Y	EF24L	
Barton Springs salamander (<i>Eurycea sosorum</i>)	14	5	L5	W18	Y	EF24L	
Austin blind salamander (<i>Eurycea waterlooensis</i>)	14	5	L5	W18	Y	EF24L	
Southern torrent salamander (<i>Rhyacotriton variegates</i>)	10	5	L5	W18	Y	EF20L	
Limestone salamander (<i>Hydromantes brunus</i>)	10	5	L5	W18	Y	EF20L	
Mt. Lydell salamander (<i>Hydromantes platycephalus</i>)	10	5	L5	W18	Y	EF20L	
Shasta salamander (<i>Hydromantes shastae</i>)	10	5	L5	W18	Y	EF20L	
Owens Valley web-toed salamander (<i>Hydromantes platycephalus</i>)	10	5	L5	W18	Y	EF20L	
Scott Bar salamander (<i>Plethodonasupak</i>)	10	5	L5	W18	Y	EF20L	
Del Norte salamander (<i>Plethodonelognatus elongatus</i>)	10	5	L5	W18	Y	EF20L	
Coast range Newt (<i>Taricha torosa torosa</i>)	10	5	L5	W18	Y	EF20L	

Snake Fence

Common Name (Scientific Name)	A. Barrier Height (in)	B. Trench Depth (min) (in)	C. Climber Barrier Type/Size	D. TPost or Wood Post / Depth (min) (in)	E. One-Way Gateway / Funnel(Y/N)	Exclusion Fence Designation	Notes
Alameda Whip Snake (<i>Masticophis lateralis uryxanthus</i>)	38	5	L5	T18	Y	EF48L	Most designers call for 48" width due to AVS speed and climbing ability
San Joaquin Whip Snake (<i>Masticophis flagellum ruddocki</i>)	38	5	L5	T18	Y	EF48L	
Giant Garter Snake (<i>Thamnophis gigas</i>)	20	5	L5	T18	Y	EF30L	Below are the lowest cost approved configurations for these Snakes but designers often call for 4' width and High Visibility Construction Safety.
Eastern fox snake (<i>Pantherophis gloydi</i>)	30	5	L5	T18	Y	EF40/42L	
Butler's garter snake (<i>Thamnophis butleri</i>)	20	5	L5	T18	Y	EF30L	
Gray Ratsnake (<i>Pantherophis spiloides</i>)	35	5	L8	T18	Y	EF48L	
Blue racer (<i>Coluber constrictor foxii</i>)	32	5	L5	T18	Y	EF42L	
Corn snake (<i>Pantherophis guttatus</i>)	25	5	L5	T18	Y	EF30L	

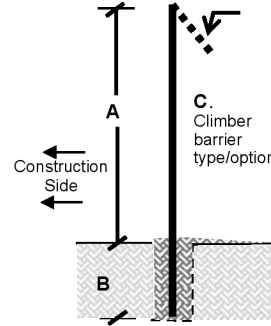
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Santa Catalina garter snake (<i>Thamnophis hammondi</i> ssp.)	20	5	L5	18	Y	EF30L	
South Coast garter snake (<i>Thamnophis sirtalis infernalis</i>)	20	5	L5	18	Y	EF30L	
Western hognose snake (<i>Heterodon nasicus</i>)	20	5	L5	18	Y	EF30L	
San Francisco garter snake (<i>Thamnophis sirtalis tetrataenia</i>)	38	5	L5	T18	Y	EF48L	CA Red-legged frog most often found in same habitat as SFGS. Determinant species is CRLF. Follow CRLF configuration.
Northern red-diamond rattlesnake (<i>Crotalus ruber</i>)	38	5	N	T18	Y	EF48L	
Timber rattlesnake (<i>Crotalus horridus</i>)	38	5	N	T18	Y	EF48L	



Lizard, Skink Fence

Blunt-nosed leopard lizard (<i>Gambelia sila</i>)	30	5	L5	T18	N	EF42L	
Coachella Valley fringe-toed lizard (<i>Uma inornata</i>)	30	6	L5	T24	N	EF42L	
Mojave fringe-toed lizard (<i>Uma scoparia</i>)	24	24	L5	T36	N	EF60L	
Texas horned lizard (<i>Phrynosoma cornutum</i>)	13	6	L5	W18	N	EF24L	
Blainville's horned lizard (<i>Phrynosoma coronatum blainvillii</i>)	13	6	L5	W18	N	EF24L	
Dunes sagebrush lizard (<i>Sceloporus arenicolus</i>)	21	4	L5	T24	N	EF30L	
Panamint alligator lizard (<i>Elgaria panamintina</i>)	30	5	L5	T18	N	EF42L	
Black legless lizard (<i>Anniella pulchra nigra</i>)	19	5	N	W18	N	EF24	
American five-lined skink (<i>Plestiodon fasciatus</i>)	20	5	L5	T18	Y	EF30L	

Bird Fence

Least Tern (<i>Stemula antillarum</i>)	10	5	Y	18	N	EF20L	For nesting or fledgling containment
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Small Mammal Fence

San Joaquin kit fox (<i>Vulpes mutica mutica</i>)	60	12	L5	24	N	EF48+EF30 L	The fence can be extended to a height of 5' above ground to exclude SJKF. However, SJKF habitat is typically home to other special-status species. Most designers choose to exclude the other species but keep the barrier low enough to allow SJKF to pass both ways.
Tipton kangaroo rat (<i>Dipodomys nitratoides</i>)	37	6	L5	T18	N	EF48L	

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Stephens' kangaroo rat (<i>Dipodomys stephensi</i>)	37	6	L5	T18	N	EF48L	
San Bernardino kangaroo rat (<i>Dipodomys merriami parvus</i>)	37	6	L5	T18	N	EF48L	
Giant kangaroo rat (<i>Dipodomys ingens</i>)	37	6	L5	T18	N	EF48L	
Preble's meadow jumping mouse (<i>Zapus hudsonius preblei</i>)	32	5	L5	18	N	EF42L	
Northwestern San Diego pocket mouse (<i>Chaetodipus fallax fallax</i>)	32	5	L5	18	N	EF42L	
San Joaquin antelope ground squirrel (<i>Ammospermophilus nelson</i>)	35	5	L8	18	N	EF48LBB6	Must add a smooth HDPE Belly-Band barrier in combination with 8" Climbing Barrier Lip.
Mojave ground squirrel (<i>Xerospermophilus mohavensis</i>)	35	5	L8	18	N	EF48LBB6	Must add a smooth HDPE Belly-Band barrier in combination with 8" Climbing Barrier Lip.
Salt Marsh Harvest Mouse (<i>Reithrodontomys raviventris</i>)	30	5	L5	18	N	EF42LBB6	Must add a smooth HDPE Belly-Band barrier in combination with 5" Climbing Barrier Lip.
San Diego desert woodrat (<i>Neotoma lepida intermedia</i>)	30	5	L5	18	N	EF42L	
San Francisco dusky-footed woodrat (<i>Neotoma fuscipes ssp. annectens</i>)	37	6	L5	18	N	EF48L	There's an option to add a smooth HDPE Belly-Band barrier in combination with 5" Climbing Barrier Lip.
Mount Lyell shrew (<i>Sorex lyelli</i>)	30	5	L5	18	N	EF42L	
Buena Vista Lake shrew (<i>Sorex ornatus relictus</i>)	30	5	L5	18	N	EF42L	
Monterey shrew (<i>Sorex ornatus salarius</i>)	30	5	L5	18	N	EF42L	
Southern California salt marsh shrew (<i>Sorex ornatus salicornicus</i>)	30	5	L5	18	N	EF42L	
Suisun shrew (<i>Sorex ornatus sinuosus</i>)	30	5	L5	18	N	EF42L	
Santa Catalina shrew (<i>Sorex ornatus willetti</i>)	30	5	L5	18	N	EF42L	
Salt-marsh wandering shrew (<i>Sorex vagrans halicoetes</i>)	30	5	L5	18	N	EF42L	
Monterey vagrant shrew (<i>Sorex vagrans paludivagus</i>)	30	5	L5	18	N	EF42L	
Pygmy rabbit (<i>Brachylagus idahoensis</i>)	35	5	N	18	N	EF42	
Riparian brush rabbit (<i>Sylvilagus bachmani riparius</i>)	35	5	N	18	N	EF42	

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4.0 Installation

Contact Titan Environmental for a design consultation, technical support, or an approved installation diagram and guideline for each species, or a combination of species. info@titanenviro.com

5.0 Maintenance:

Perform maintenance as required. Inspect areas of concentrated rainwater run-off following rainfall events and after high-wind events. Damage to the special-status-species exclusion barrier resulting from weather or the construction site vehicles, equipment, or operations shall be repaired immediately.

Split or torn segments shall be repaired with zip-ties or 16 gauge galvanized wire ties or replaced. Rills, gullies and other evidence of concentrated runoff which has undercut the SSSEB shall be corrected. Locations needing repair shall be repaired or replaced immediately after identifying the deficiency.

6.0 Method of Measurement

Quantities of E- Fence to be paid for will be determined by the linear foot measured along the centerline of the installed barrier. Where E- Fence segments are joined and overlapped, the overlap will be measured as a single installed strip.

7.0 Basis of payment

The contract price paid per linear foot for E- Fence shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing the E-Fence, complete in place, including trench excavation and backfill, and maintenance, as shown on the plans, and in these special provisions, and as directed by the Project Manager.

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