

Airfield Mat Systems, Inc 7396 Skyline Drive Delray Beach Florida 33446 www.airfieldmats.com

**ECHO**Advisory

an aviation improvement company

110

Steve J. Byers 412.401.5025 Stevei@airfieldmats.com

### 2019 Pricing effective January 1, 2019

Large Mats with Anchors		Price	Shipping
	FM-1-8 f.k.a. FM-1	\$206.50	Not Incl. Call
	FM-1-8wi f.k.a.FM-2wi	215.50	Not Incl. Call
	FM-1-8wi-18	213.30	Not inci. Caii
	f.k.a. FM-1wi-18 f.k.a FM-2wi-18	228.00	Not Incl. Call

### **Strip Matting With Anchors**

p matting with Ar	ICHOIS		
	SM-1*	474	Not Incl. Call
	*30ft lengths with 15 anchors		
	SM-2**	946	Not Incl. Call
	**60ft lengths with 30 anchors		
C Parts			
	IN-12 12" insert	23	
	IN-18 18" insert	. 30	

A-10 Straight Anchors (qty 10)

Terms: NET30 upon approval

MIS

1.5% per month finance charge will be assessed after 90 days

Shipping:

Not included. Ask for quote for specific quantities and to specific destinations.

Call 412-401-5025 or email steve@airfieldmats.com

Prices subject to change due to volatile market conditions. Call to confirm and lock in pricing for 30 days.

Lead Time: 2-4 weeks

The Echo Advisory® Airfield Mat Systems aka. "LightSaver™ Mat" is protected by US. Patent 6,527,407 and Federal Case No. 03-61343-CIV-MORENO in the US District Court of Southern District of Florida.

Steve Byers, inventor and sole owner of Patent Number 6,527,407 requests purchaser verify suppliers licensing rights through personal contact at 412-401-5025.



Airfield Mat Systems, Inc 7396 Skyline Drive Delray Beach Florida 33446 www.airfieldmats.com

**ECHO**Advisory

an aviation improvement company

Steve J. Byers 412.401.5025 Stevei@airfieldmats.com

### 2019

### Mat Material Specifications:

- 1. Mats are a high Density Masticated Rubber Material
  - a. made of no less than 7 % polyurethane binders
  - b. and no more than 93% rubber grindings
- 2. Weight rubber mat about 32 lbs.
- 3. Anchors about 1.5 lbs each
- 4. Description by part number:

FM-1-8

48"x84" Football Mats

For Base Can Mounted lights

12" center hole to fit precisely around 12" base can lid Includes 8 straight anchors

Previous equivalent part numbers FM-1

FM-1-8wi

48"x84" Football Mats with 12" insert

For Stake Mounted lights

8" center hole in main mat

Insert wraps around stake - Required

Includes 8 straight anchors

Previous equivalent part numbers FM-2wi

FM-1-8wi-18

48"x84" Football Mats with 18" insert

**Dual Application** 

For Base Can Mounted lights

12" center hole to fit precisely

around 12" base can lid

Insert of overlay the Base Can Lid - Optional

For Stake Mounted light

Insert wraps around stake - Required

Includes 8 straight anchors

Previous equivalent part numbers FM-1wi-18 & FM-2wi-18

SM-1

25"x30' Strip Matting

For Edge Applications such as :

Around Directional signs

Along Buildings Along Fences

Mat is cut and anchor holes cut by installer in the field

Includes 15 straight anchors

SM-2

25"x60' Strip Matting

For Edge Applications such as :

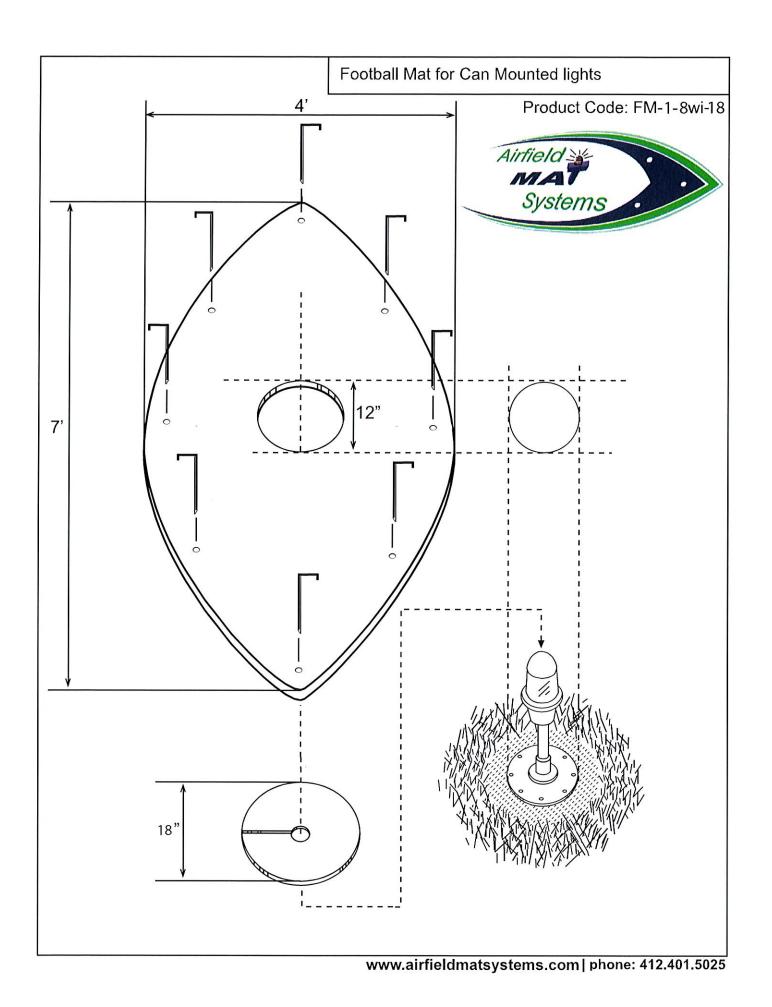
Around Directional signs

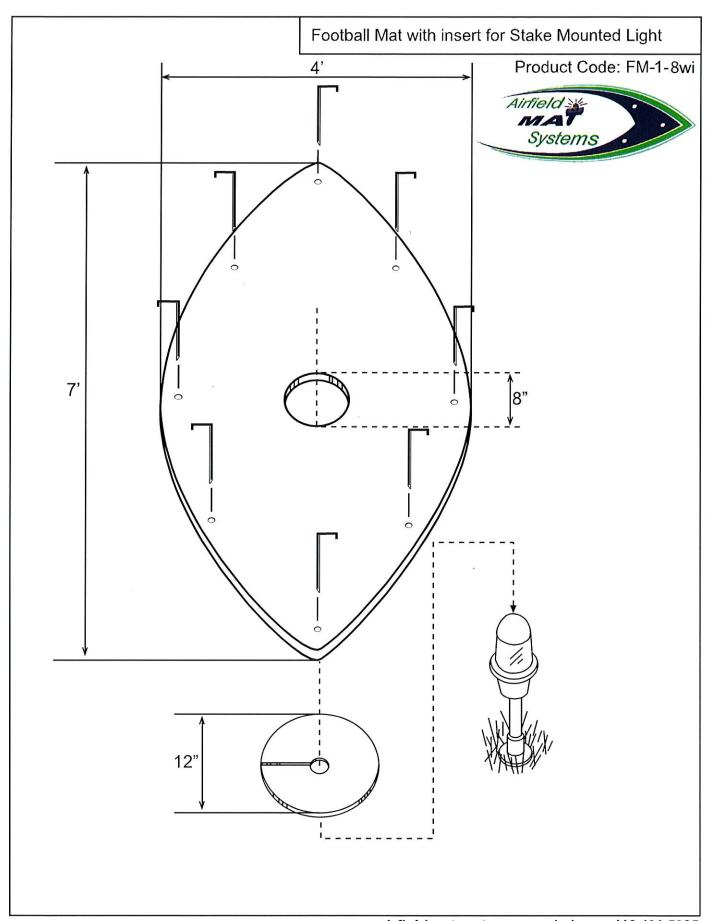
Along Buildings

Along Fences

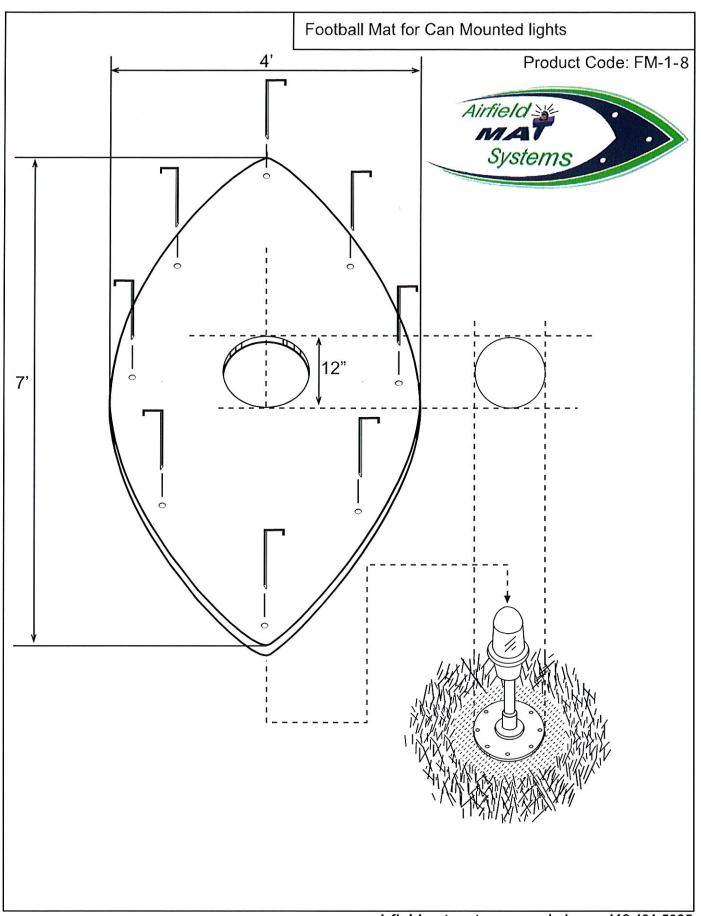
Mat is cut and anchor holes cut by installer in the field

Includes 30 straight anchors





www.airfieldmatsystems.com | phone: 412.401.5025

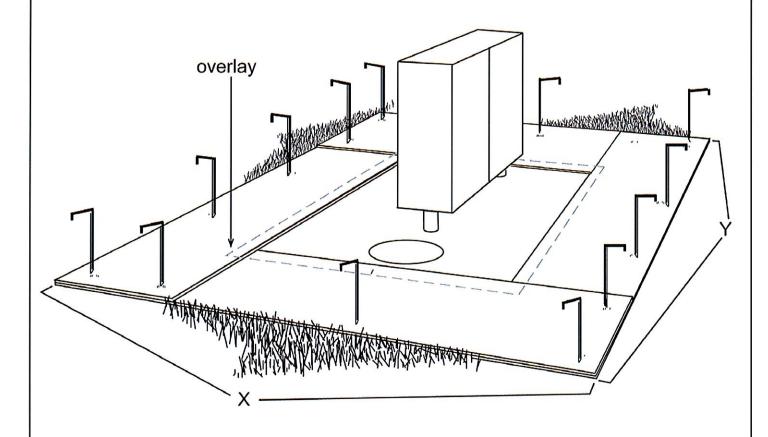


www.airfieldmatsystems.com | phone: 412.401.5025

Product Code: SM-1

SM-2





Length needed = perimeter extending 2 feet from base = 2X + 2Y

SM-1: 30ft Length - 15 Anchors

SM-2: 60ft Length - 30 Anchors



Airfield Mat Systems, Inc 7396 Skyline Drive Delray Beach, FL 33446 www.airfieldmats.com

**ECHO**Advisory

an aviation improvement company

Steve J. Byers 412.401.5025 steve@airfieldmats.com

### **AIRFIELD MATS**

### **MATERIALS**

### Airfield Matting:

The specifications in Tables 1 and 2 are those of the Echo Advisory <sup>TM</sup> Airfield Mats Systems.

### TABLE 1 – AIRFIELD LIGHT MATTING PROPERTIES

PROPERTY	ASTM	SPEC-	SPEC-
	-	METRIC	ENGLISH
Tensile Strength			
with grain, min.	D412	4.8 MPa	696.0 psi
across grain, min.	Die C	2.1 MPa	304.5 psi
Elongation (%)			
with grain, min.	D412	15	15
across grain, min.	Die C	40	40
Hardness, Shore A	D2240	75-85	75-85
Tear Resistance			
with grain, min.	D624	21 kN/m	119.7 pli
across grain, min.	Die B	44 kN/m	250.8 pli
Heat Aging Tensile, % max.	D573	+/-25	
change in: Elongation, % max.	70 hrs	+/-25	SAME
Hardness, Pts max.	@ 70°C	+ 10	
Ozone Resistance	80pphm		
Tear across grain, kN/m min.	50hrs @	19.0 kN/m	108.3pli
	38°C	15.0 KI VIII	100.5pii
Specific Gravity		0.9-1.3	0.9-1.3
Low Temperature Brittle	D-2137	non brittle in	
@-40°C	Method A	both directions	SAME
Flammability Shall conform to current MVSS N	o.302, Flamm	ability of Interior I	Materials.

DX

Helicopter Pasture spraying

aerialsprayingmn.com

Oklahoma Kansas 2,4D Weed control

Airfield MAT Systems

Moneysaving SAFETY Solutions

MAIN ABOUTUS PRODUCTS CONTACTINFO

SAVINGS CALCULATOR

**HOW TO GET YOUR MATS How to Design Mats in to AIP Projects** 

## Anchor Format Update Savings Calculator DEMO ORDER OFFER!!! CLICK HERE!!!

### Made in U.S.A.



The Echo Advisory Airfield Mat System

### Size Matters

Our Mats are Actually Large Enough to effectively:

- · Prevent Tall Grass around Lights
  - · Prevent Erosion
  - · Reduce Breakage

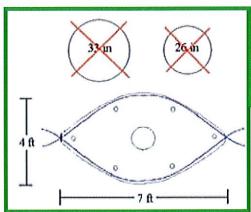
The Echo Advisory Anchoring System features:

- Zero Profile Anchors
- Allow Mowing Equipment Overlap
- · Prevents Mats from Being Dislodged

Larger Echo Advisory elliptical mats accomplish what the smaller, popularly advertised mats do not.

The Echo Advisory elliptical or football mats are 7 feet long and 4 feet wide; realistically complementing the mowing path around runway lights.

Mower equipment can overlap the edge of the mat, completely cutting all the vegetation around the light. There is no need to return to the light with a line trimmer or to spray an erosion causing herbicide.









Mower equipment can pass over the mat, cutting the grass without the use of line trimmers while staying a safe distance from lighting fixtures.

### Size Matters

"The small rounds ones, they didn't impress me none. Tried to cut over them, had to orbit them, they didn't stay in place....

The football ones, the mower goes over them really nice, they will save me a lot of time and a lot of trouble."

-- Sparky, Airport Mgr., Benton County Airport, Camden Tennessee



The Echo Advisory™ Airfield Mat Systems aka. "LightSaver™ Mat" is protected by US. Palent 6,527,407 and Federal Case No. 03-61343-CIV-MORENO in the US District Court of Southern District of Florida.

Steve Byers, inventor and sole owner of Patent Number 5,527,407 requests purchaser verify suppliers licensing rights through personal contact at 412-401-5025.

PHONE: 412-401-5025 info@echoadvice.com

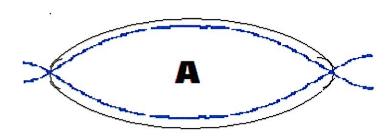
© 2008 Airfield Mat Systems Inc.

### Optimal Mat Performance

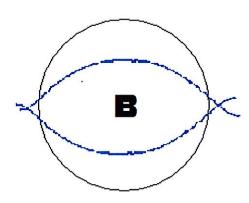
Reviewing the mowing path taken by the mowing vehicles it can be concluded the football mat the most optimal design.

### A = Recommended B&C = Less Desirable

Mowers weave around the perimeter of a light as they proceed along a directional path down the runway or taxiway. The blue line depicts the path of a mower decks edge as it passes by a light

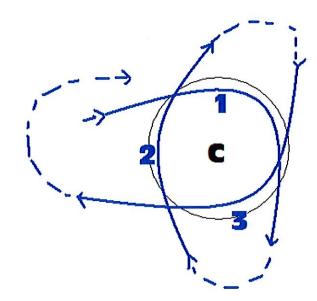


The football or elongated shaped mat complements this mowing path giving the mower perimeter a length of 7 feet and a width of 4 feet around the light.



The same path reduced to match a round mat shows that a mower decks perimeter utilizes a much smaller ratio of the mat. In the case of a 4ft diameter mat the mats effectiveness of the mowing perimeter is reduced from 7 to 4 feet length-wise and 4 to 2 feet in width. In the case of smaller mats such as a 26 inch mat the effectiveness of the mat is reduced to inches not feet.

Mower operators often find themselves taking a more frustrating approach to round mats resulting in a pattern called orbiting. This often results in mower wheels taking sharp turns on the mat and the mower is more likely to buckle or dislodge the mat.



It is recommended that Airfield Mats are installed as pictured here





### Airfield Mat Systems

**TOOLS & ACCESSORIES - 8.2** 

### PRODUCT APPLICATION

The Airfield Mat System is used to protect runway and taxiway lights and can be used to:

- Keep mowing equipment further from the light to help prevent accidental breakage.
- Alleviate the need to use manual line trimming to keep the grass managed around the lights.
- Prevent the need to spray poison (i.e., "Agent Orange") around the lights that kills the grass and then leads to erosion.

### **FEATURES**

- Saves Labor Costs. Countless man-hours are accrued during the tedious task of line-trimming airfield lights to ensure visibility. Mowing equipment can overlap the mat, eliminating the need for grass trimming, thus saving time, money, and labor.
- Prevents Health and Safety Hazards. The light saver system eliminates the need to spread toxic chemicals, reducing the time a ground crew will need to be performing hazardous tasks in potentially dangerous locations.
- Prevents Costly Equipment Breakage. During routine grounds maintenance using large and imprecise mowing equipment, crews often report broken lights and posts. Using the Airfield Mat allows the mower to cruise past each light with a wider contingency space.
- Environmentally Friendly. Some airports use weed and grass-killers to control growth around airfield lights. The Airfield Mat eliminates the use of such chemicals, protecting ground water and wildlife and eliminating airfield crew exposure.
- Quick and Easy Installation. Airfield Mats are secured to the earth with Airfield Mat Systems recessed Ground Anchoring System. The anchors can be quickly and easily installed by one person. These durable anchors will hold the mat securely even in the most adverse weather conditions, and prevent displacement from prop-wash or jet-blast.
- Long Lasting Zero Profile. The low profile Anchors are made of steel while the Airfield Mats are made from durable synthetic rubber compounds. Both materials have proven resistance to nature's elements. The Airfield Mat System can be installed and forgotten, while the benefits continue year after year.

### ORDERING INFORMATION

### Description **Part Number** 48"x84" Football Mat. FM-1-8 For base can mounted lights, 12" center hole to fit precisely around 12" base can lid. Includes 8 anchors. 48"x84" Football Mat with 18" FM-1-8wi-18 insert. Dual application. For base can mounted lights, 12" center hole to fit precisely around 12" base can lid. Insert of overlay the base can lid - optional. For stake mounted lights, insert wraps around stake required. Includes 8 anchors. 48"x84" Football Mat with 12" FM-1-8wi insert. For stake mounted lights, insert wraps around stake required. Includes 8 anchors. 25"x30' Strip Matting. SM-1 For edge applications such as: around directional signs, along buildings, or along fences. Mat is cut and anchor holes cut by installer in the field. Includes 10 anchors. 25"x60' Strip Matting. SM-2 For edge applications such as: around directional signs, along buildings, or along fences. Mat is cut and anchor holes cut by installer in the field. Includes 20 anchors.

Manufactured by Airfield Mat Systems, Inc.



### **TOOLS & ACCESSORIES - 8.2**

Airfield Mat Systems

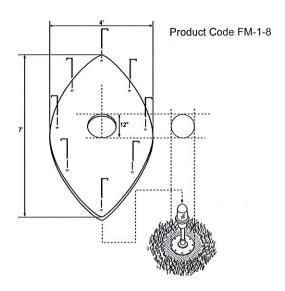
### RENEWAL PARTS

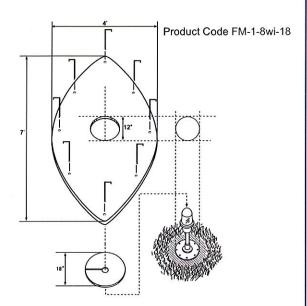
**Description Part Number** 12" Insert IN-12 18" Insert **IN-18** Anchors (quantity 10) A-10

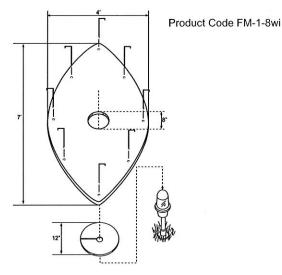
### **MATERIAL SPECIFICATIONS**

- Mat is made of no less than 7% polyurethane binders and not more than 93% rubber grindings.
- 11.5" long staple stake steel anchor:
  Each anchor is designed to anchor the mat flush to the ground with an 11.5" shaft, a 4" horizontal bar, and a 2" down pin.
  - Each anchor penetrates the mat with the long shaft and the 2" pin penetrates directly into the ground where is reaches over the edge of the mat.
- Weight of the rubber mat is ~40 lbs.
- Weight of an anchor is ~1.5 lbs (~13 lbs for all 8).

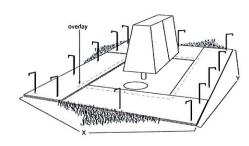
### INSTALLATION DIAGRAMS







Product Code SM-1



6830 NW 16th Terrace • Ft. Lauderdale, FL 33309 USA

Phone: 1.954.975.2100 • Fax: 1.954.979.3313

E-mail: DMEairfieldSALES@astronics.com • www.astronics.com



**ECHO**Advisory



Creating and distributing innovative products, with an emphasis on time and cost savings.



### Bulletin

Service Bulletin for airfield lights installed in water washout areas and shoulders.

This is a product update for customers who experience excessive erosion around lights.

In Order to prevent the problem of erosion around lights as pictured here



It is recommended that Airfield Mats are installed as pictured here



Contact your Authorized Echo Advisory sales representative to order some today

### Bulletin

Service Bulletin for airfield lights installed in grassy shoulders.
This is a product update for customers who experience excessive vegetation growth around lights.

In Order to prevent the problem of high grass around lights as pictured here



It is recommended that Airfield Mats are installed as pictured here



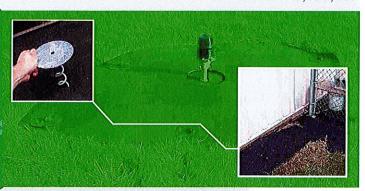
Contact your Authorized Echo Advisory sales representative to order some today



### The Mat

Patent No. 6,527,407

12mm thick made from recycled rubber with polyurethane binders. The mats anchor to the ground with galvanized steel anchors. Lawn mower equipment can pass over the mat cutting all the grass without the use of line trimmers while still staying a safe distance from the light.



### **True Mowing Efficiency**

The patented anchoring system and elongated "football" shape was designed to allow maintenance crews with larger mowers to mow in a line, from light-to-light and make only one pass on each side of the light. The Football Mat is 4 feet wide by 7 feet long. The Football Mat uses 6 ground anchors to secure it in place. Mowers can move in a more natural mowing arc around airfield lights, expediting the mowing process even further. The Airfield Mats are large enough to prevent lights from disappearing into the tall grass letting the mowing crew better visually identify the light location preventing "accidental breakage". Other smaller mats do not accomplish this same efficiency and often still require line-trimming to complete the job.

When lighting, sign and fencing projects are bid under the Airport Improvement Programs(AIP) this **Airfield Mat System** qualifies as part of the funded project. Plan on protecting your airport's investment with the time and cost savings of the **Airfield Mat system**.

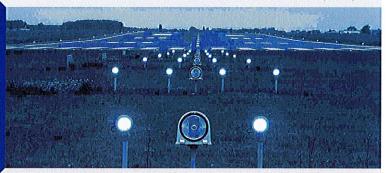
Call Echo Advisory Services, LLC for product information and support. Call our national distribution partners for pricing and availability Distributed by:



### **Protect Your Investment**

This patented product was designed to reduce the damage caused by mower equipment impact to airfield lighting signs and other objects. During routine grounds maintenance using larger and imprecise mowing equipment, crews often report broken lights and posts. The Airfield Mat allows the mower to cruise past each light with a wider contingency space.

Patent No. 6,527,407











### **Reduce Your Cost**

The Airfield Mat System eliminates the constant attention and extra labor dedicated to controlling vegetation in hard to reach areas. Vegetation control around airport post lighting, directional signs, wind socks, fences and buildings calls for special attention. The Airfield Mat System is a cost effective solution that reduces the labor to trim vegetation, prevents erosion around the base of light or sign fixtures, and replaces the need for the use of environmentally damaging chemicals and poisons.

Countless man hours accrue during the tedious task of line-trimming grass that mowers can't reach. With the Airfield Mat System, mowing equipment can overlap the mat, eliminating the need for grass trimming and ensuring visibility around lights and signs.

Some airports use weed and grass-killers to control growth around airfield lights and signs. The Airfield Mat **System** *eliminates* the use of such chemicals, protecting ground water and wildlife and eliminating airfield crew exposure.

- Saves Money
- Protects Airfield Lights
- Saves Labor Time
- Reduces Health Risks
- Environmentally Friendly
- · Installs Quickly and Easily
- Long Lasting Durability



### Bulletin

Service Bulletin for airfield lights susceptible to mower impact.
This is a product update for customers who experience excessive light and sign breakage around the airfield.

In Order to prevent the problem of light and sign breakage as pictured here



It is recommended that Airfield Mats are installed as pictured here



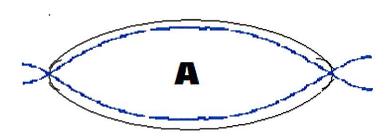
Contact your Authorized Echo Advisory sales representative to order some today

### Optimal Mat Performance

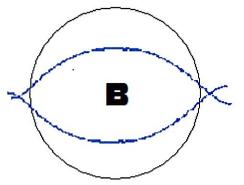
Reviewing the mowing path taken by the mowing vehicles it can be concluded the football mat the most optimal design.

### A = Recommended B&C = Less Desirable

Mowers weave around the perimeter of a light as they proceed along a directional path down the runway or taxiway. The blue line depicts the path of a mower decks edge as it passes by a light

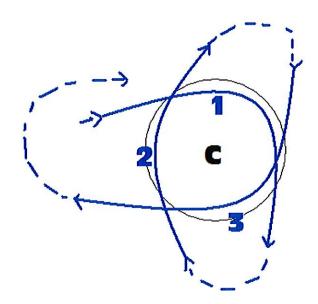


The football or elongated shaped mat complements this mowing path giving the mower perimeter a length of 7 feet and a width of 4 feet around the light.



The same path reduced to match a round mat shows that a mower decks perimeter utilizes a much smaller ratio of the mat. In the case of a 4ft diameter mat the mats effectiveness of the mowing perimeter is reduced from 7 to 4 feet length wise and 4 to 2 feet in width. In the case of smaller mats such as a 26 inch mat the effectiveness of the mat is reduced to inches not feet.

Mower operators often find themselves taking a more frustrating approach to round mats resulting in a pattern called orbiting. This often results in mower wheels taking sharp turns on the mat and the mower is more likely to buckle or dislodge the mat.



It is recommended that Airfield Mats are installed as pictured here











Echo Advisory Services, Ilc 797 Broughton Road Bethel Park Pennsylvania 15102 www.echoadvisory.com

an aviation improvement company

Steve J. Byers 412.401.5025 Fax 412.291.1781 steve@echoadvice.com

### The Airfield Mat System

### The Airfield Mat System:

This product was designed to eliminate the constant attention, which must be given to each post light on an airfield. Labor to trim vegetation, environment damaging chemicals and poisons and accidental breakage are virtually eliminated. Eliminates erosion around the base of the light fixture due to rain and wind. The mat is 4 feet in diameter and made from recycled rubber with polyurethane binders.

- Saves Money
- Protects Airfield Lights
- Saves Labor Time
- Reduces Health Risks
- Environmentally Friendly
- Installs Quickly and Easily
- Long Lasting Durability



**ECHO**Advisory





### The Round Airfield Mat:

The Airfield Mat is designed to alleviate the need to trim the grass around the post lights on your air field. Lawn mower equipment can pass over the mat cutting all the grass with out the use of line trimmers while still staying a safe distance from the light..

Securely anchored to the ground, the mat does not allow grass to grow near the light.



A Four Wheel Steer Kubota taking action around the mat.



### Airfield Mat System

Page 2



### The Football Airfield Mat:

The Football Airfield Mat: This product was designed to do the same job as the Round Mat, yet allow maintenance crews with larger mowers to mow in a line, from light-to-light and only make one pass on each side of the light. The Football Mat is 4 feet wide by 7 feet long and made of the same compound as the Round Mat. The Football Mat uses 6 ground anchors to secure it in place.

Mowers can move in a more natural mowing arc around airfield lights, expediting the mowing process even further, and probably sparing a few more lights in the process.





Even the most cumbersome field mowers can maintain a safe Maneuvering distance from the light while cutting all the grass





A Kubota Tractor Making a high speed pass traversing from from one light to another



Echo Advisory Services, Ilc 797 Broughton Road Bethel Park Pennsylvania 15102 www.echoadvisory.com

an aviation improvement company

Steve J. Byers 412.401.5025 Fax 412.291.1781 steve@echoadvice.com

### Benefits of the Airfield Mat System:

- · Saves Money
  - Protects Airfield Lights
    - Saves Labor Time
      - Reduces Health Risks
        - Environmentally Friendly
          - Installs Quickly and Easily
            - Long Lasting Durability



<u>Saves Labor Costs</u> Countless man-hours are accrued during the tedious task of line-trimming airfield lights to ensure visibility. With the, mowing equipment can overlap the mat the Airfield Mat System, <u>eliminating the need for grass trimming</u>, thus saving Time, Money, and Labor.

<u>Prevents Health and Safety Hazards</u> The light saver system eliminates the need to spread toxic chemicals, reducing the time a ground crew will need to be performing hazardous tasks in potentially dangerous locations.

<u>Prevents Costly Equipment Breakage</u> During routine grounds maintenance using large and imprecise mowing equipment, crews often report broken lights and posts. Using the Airfield Mat allows the mower to cruise past each light with a wider contingency space

**Environmentally Friendly** Some airports use weed and grass-killers to control growth around airfield lights. The Airfield Mat eliminates the use of such chemicals, protecting ground water and wildlife and eliminating airfield crew exposure.

<u>Wise Planning</u> These types of chemicals may be restricted by the EPA in the near future. Echo's System is a step towards being prepared for any such restrictions.

**Quick and Easy Installation** Airfield Mats are secured to the earth with Echo's recessed Ground Anchoring System. The anchors can be quickly and easily installed by one person either by hand, a ratchet, or with a cordless drill. These durable anchors will hold the mat securely even in the most adverse weather conditions, and prevent displacement from prop-wash or jet-blast.

**Long Lasting** Ground Anchors are galvanized steel while the Airfield Mats are made from a durable synthetic rubber compounds. Both materials have proven resistance to nature's elements.

The Airfield Mat System can be <u>installed and forgotten</u>, while the benefits continue year after year.



Echo Advisory Services, Ilc 797 Broughton Road Bethel Park Pennsylvania 15102 www.echoadvisory.com

an aviation improvement company

Steve J. Byers 412.401.5025 Fax 412.291.1781 steve@echoadvice.com

### **Cost Savings Analysis**

For a 75 light installation

COS	T PER YEAR			
	Per	Per light		75 lights
	No Mat	Airfield	No Mat	Airfield Mat
		Mat		Solution
		Solution		
Labor				
Trimming*	26.25		1968.75	
Replacing broken lights***	4.17		312.75	
Materials				
Trimmer Costs+	1.75	×	131.25	×
Poisons++	2.00	ost	150.00	ost
Broken Lights+++	16.68	011	1251.00	110
Liability Issues		una		una
Workers on Runways to Trim	High risks with	No Annual Costs		No Annual Costs
Workers on Runways to repair lights	possible high costs	Z		Z
Total Costs PER YEAR	50.85		3813.75	
Total Costs TWO YEARS	101.70		7627.50	
Total Costs TEN VEADS	508 50		38 137 50	

Total Costs TWO YEARS	101.70	7627.50
Total Costs TEN YEARS	508.50	38,137.50

### TOTAL SAVINGS WITH AIRFIELD MAT SYSTEM; 10 YEARS PLUS

(est. cost to contractor)  SAVINGS	\$27,887	
One time Cost of installation	750	
One time Cost of Mats (w/ freight estimate)	Approx 9,500	
Ten Year Cost from above chart	\$38,137	

<sup>\* 3</sup> minutes per light to walk from light to light, figuring 35 times a year, figuring \$15 an hour for labor

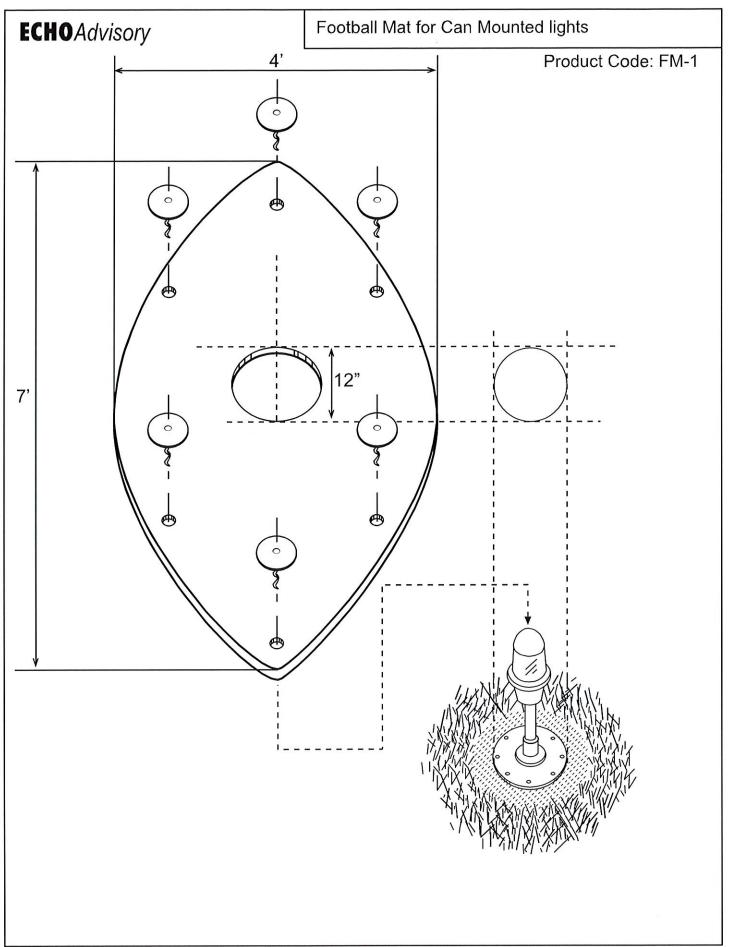
<sup>\*\* 3</sup> minutes per light to walk or driving from light to light, figuring 5 times a year, figuring \$15 an hour for labor

<sup>\*\*\*</sup> Mowing equipment inevitably attempts to minimize trimming need by getting to close to light. figuring 1 light broken out of 300 passes with the mowing equipment. Figuring 50 mowing passes times per year. Figuring 45 minutes to repair light at \$25 per hour.

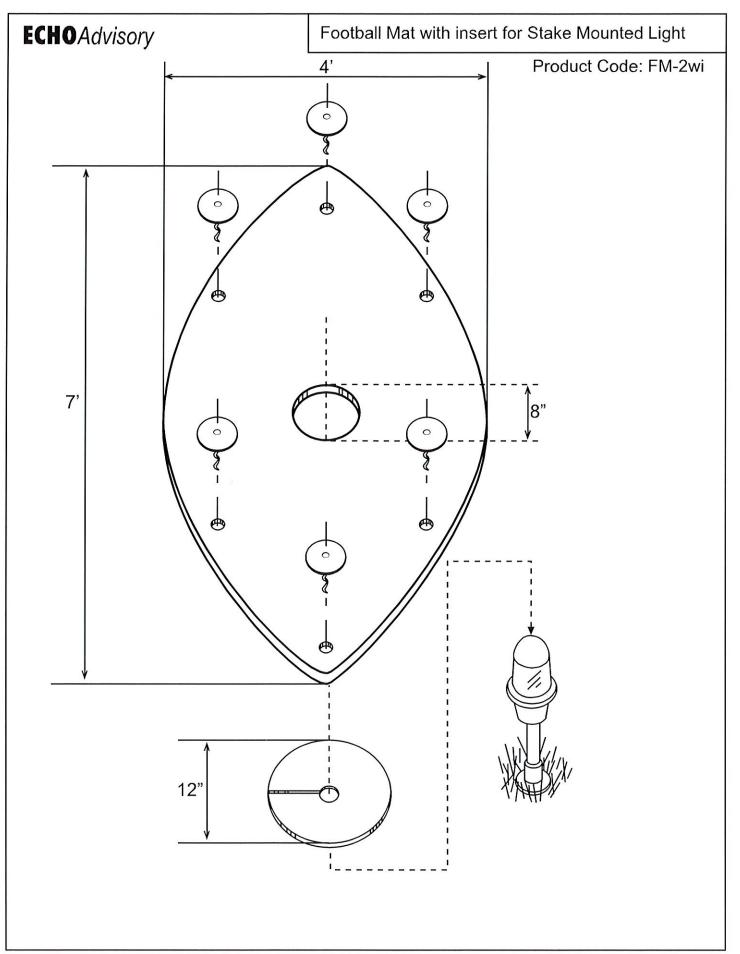
<sup>+ 3</sup> minutes per light figuring 35 times a year, Figuring a gas powered trimmer will last 350 hours and the trimmer would cost \$350 to replace.

<sup>++</sup>Figuring \$200 of poison would cover 400 lights applications with 5 applications per year

<sup>+++</sup> Mowing equipment inevitably attempts to minimize trimming need by getting too close to light. 1 light broken out of 300 passes with the mower equipment. Figuring 50 mowing passes times per year. Figuring S75 in parts to repair light.



www.echoadvisory.com | phone: 412.401.5025 | fax: 412.291.1781



Place the collar around the stake light







Place the large mat ...Round or Football...over the collar





Anchor the Echo Advisory<sup>TM</sup> Mat System into place





**Set the Anchors** 







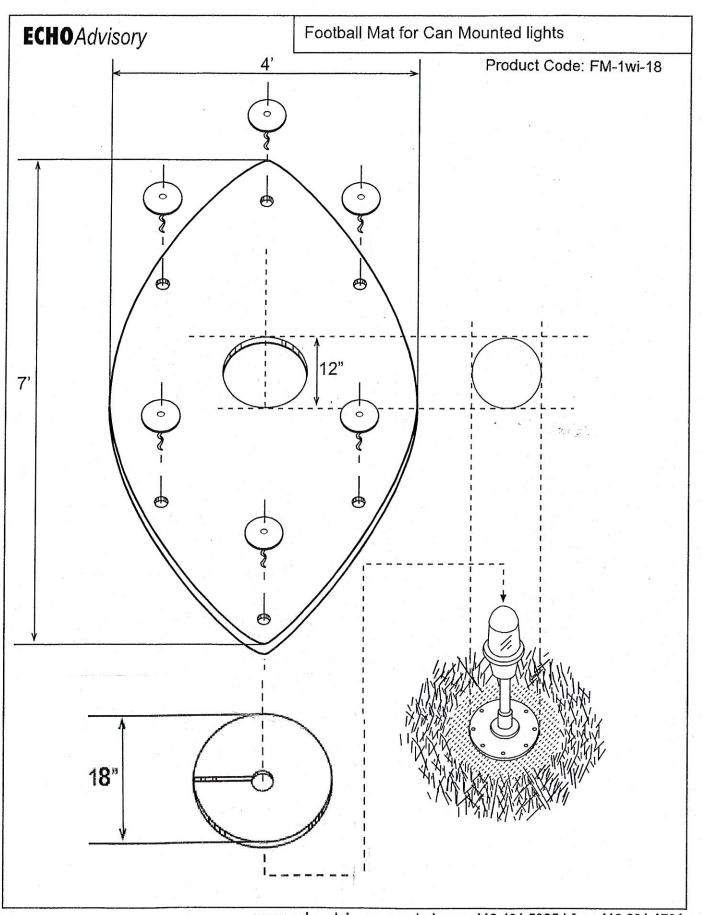
### And the plugs

1. Set Anchor Plug into square hole.



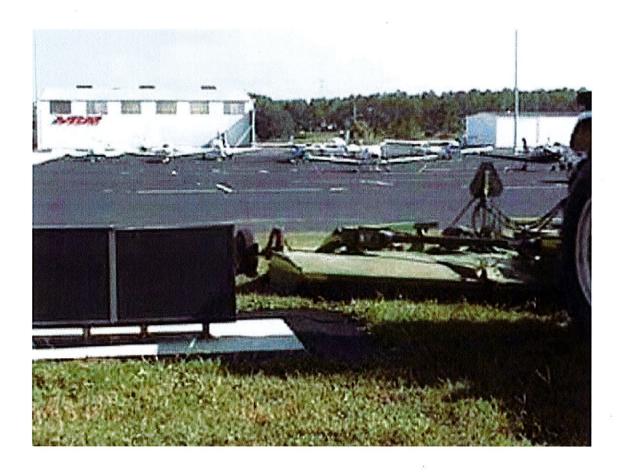
2. Tap Anchor Plug into place with hammer.





www.echoadvisory.com | phone: 412.401.5025 | fax: 412.291.1781



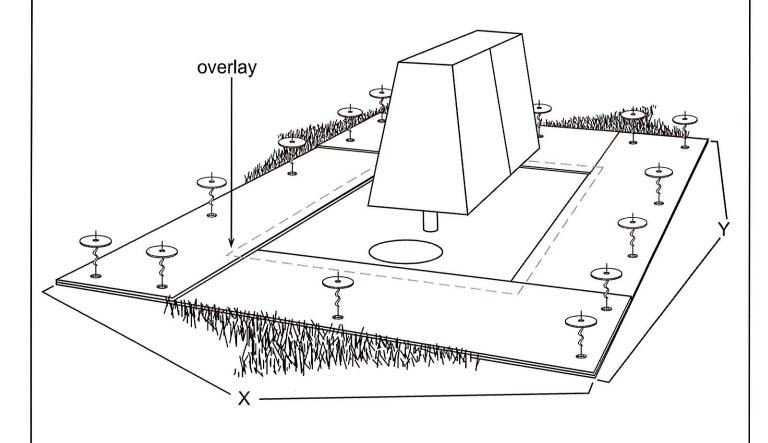




Strip Mat

Product Code: SM-1

SM-2



Length needed = perimeter extending 2 feet from base = 2X + 2Y

SM-1: 30ft Length - 10 Anchors

SM-2: 60ft Length - 20 Anchors

# Airports With Echo Advisory Mats

Boca Raton, Florida

Tallahassee, Florida

Pompano, Florida

Lakeland, Florida

St. Augustine, Florida

Titusville, Florida

State College, Pennsylvania

Trenton Mercer, New Jersey

Memphis, Tennessee

Ottumwa, Iowa

Mackinaw, Michigan

Escanaba, Michigan

Martin County, Pennsylvania Union County, Mississippi

Dimondale, Michigan

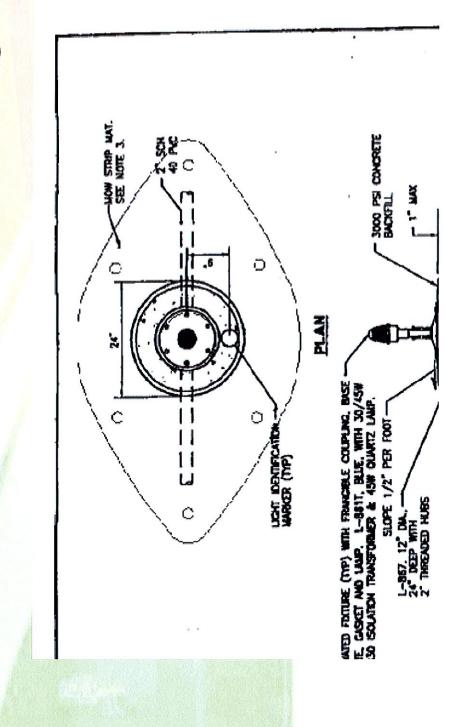
Amarillo, Texas

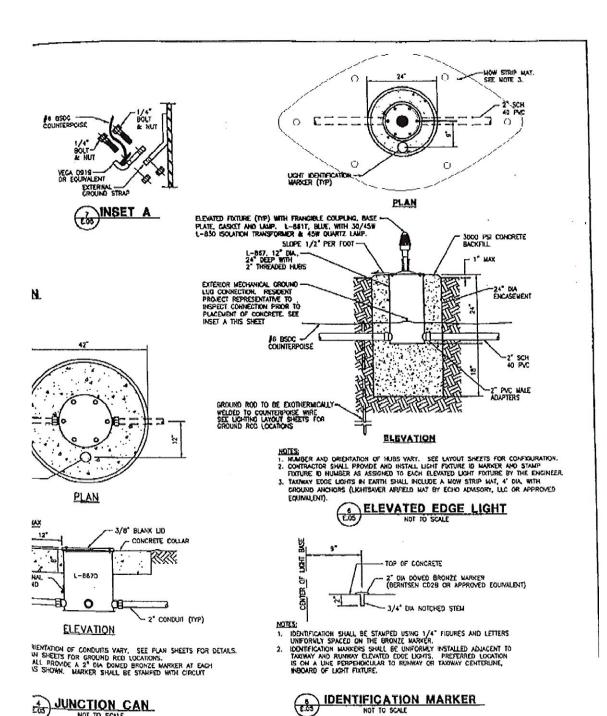
Booneville, Mississippi

Mobile, Alabama

Newton, Iowa

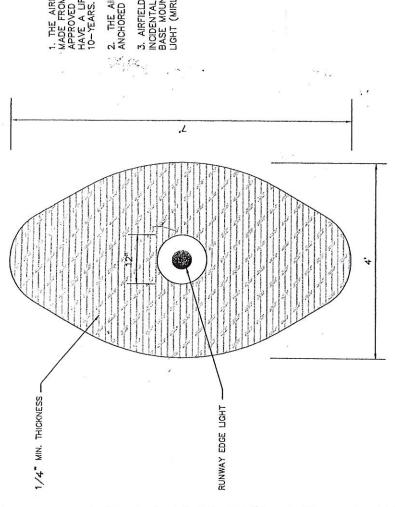
## Engineering and Design





200

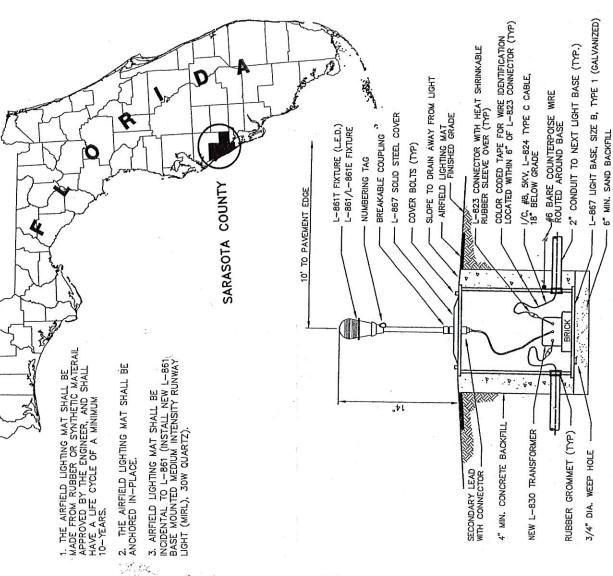
JUNCTION CAN



AIRFIELD LIGHTING MAT



NOTE:
PROJECT IS REHABILITATION OF
CURRENT RUNWAY 4-22.
FOLLOWING REHABILITATION, RUNWAY
WILL BE RE-MARKED AND DESIGNATED
AS RUNWAY 5-23



PROVIDE 3' MIN. OF SLACK IN EACH PRIMARY CABLE AND SECONDARY EXTENSION RUNWAY/TAXIWAY EDGE LIGHT BASE MOUNTED RUNWAY THRESHOLD LIGHT BASE MOUNTED



Echo Advisory Services, Ilc 797 Broughton Road Bethel Park Pennsylvania 15102 www.echoadvisory.com

ECHOAdvisory an aviation improvement company

Steve J. Byers 412.401.5025 Fax 412.291.1781 steve@echoadvice.com

### Fall 2005

### **Performance Results Report**

In January of 2005 The Boca Raton Airport installed the Echo Advisory Airfield Mats on each of its runway lights. These mats are anchored by the Echo Advisory patented anchoring system.

On October 24, 2005, Hurricane Wilma presented the Boca Raton Airport with a direct hit and winds estimated at 120 miles per hour.

The Airport suffered extreme damage to countless aircraft and almost every structure on the airfield. Hanger doors were complete ripped off many of the T-Hangers. Two very large corporate hangers completely collapsed in the force of Hurricane Wilma winds.

Upon inspection of the airfield it was found that NONE of the Echo Advisory Airfield Mats were dislodged. The Anchoring system performed its duties and survived one of the worst tests nature has to offer.

