



LIGHTNING DIVERTER SPECIFICATIONS



ISO 9001:2015 • AS9100D
CERTIFIED COMPANY



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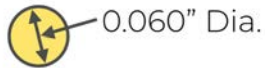
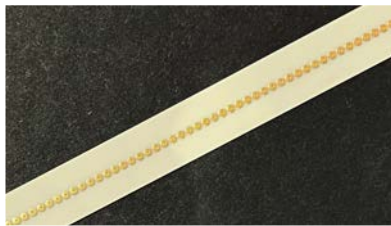


BUTTON & TERMINATION TYPES: TWO STYLES TO CHOOSE

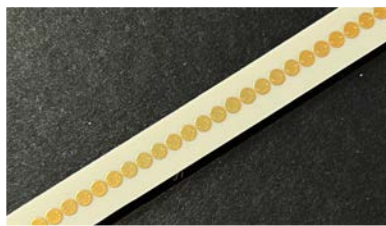
BUTTON TYPES

We offer two button types for wind turbine applications:

SMALL ROUND (SR)



LARGE ROUND (LR)



TERMINATION TYPE

For installation on a wind turbine blade, only a straight-edge termination is required in our installation process.

EDGE CUT (EDG)



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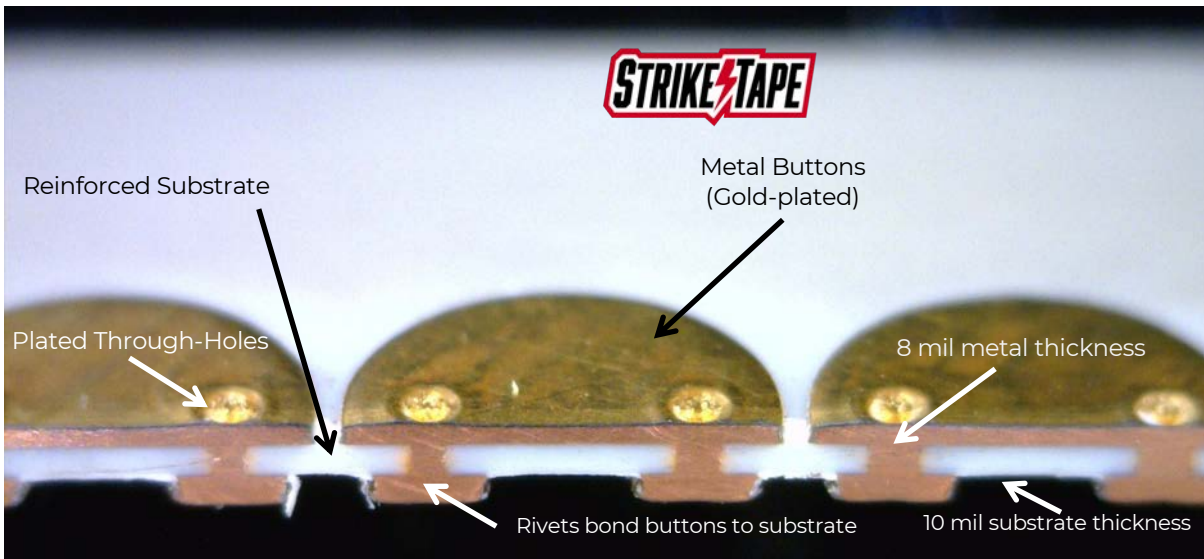
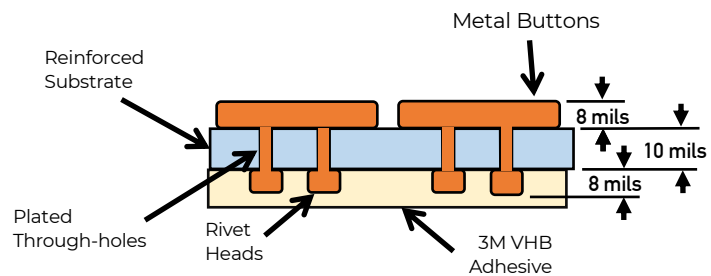
DIVERTER CROSS-SECTION AND FEATURES

Weather Guard Lightning Tech is an ISO9001:2015 & AS9100D certified company, adhering to the strictest quality assurance standards.

Diverter Features

- Substrate (strip) thickness: 10 mils
- Metal Button thickness: 8 mils
- Gold-plated metal buttons
- Rivets bond buttons to strip
- 3M VHB adhesive backing (optional)

Cross Section of a **STRIKE TAPE** Diverter



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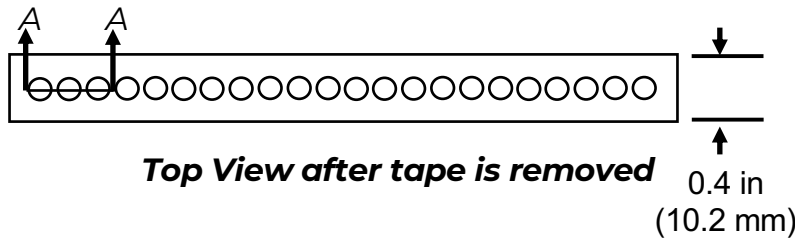


STRIKETAPE DIMENSIONS

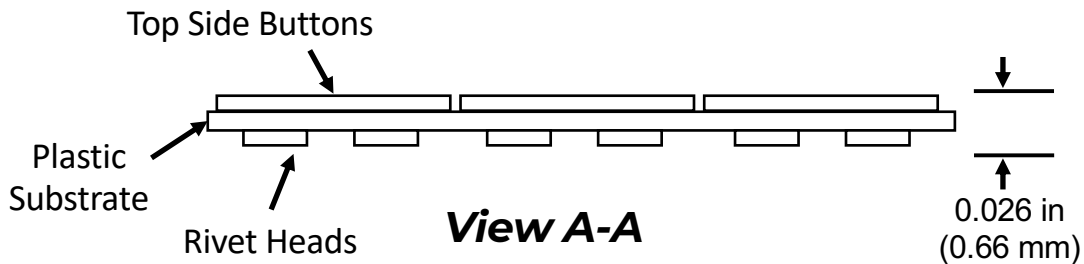
TOP AND SIDE VIEW DRAWINGS



Top View with protective tape



Top View after tape is removed



STRIKETAPE DIVERTER PART SPECIFICATIONS

Diverter Type	Substrate Width	Top Side Button Size	Button Thickness	Substrate Thickness	Overall Thickness	Diverter Weight
Large Round (LR)	0.40" (10mm)	0.125" (3.17mm) Dia.	0.008" (0.2mm)	0.010" (0.25mm)	0.026" (0.66mm)	0.13oz/ft (12.21g/m)
Small Round (SR)	0.40" (10mm)	0.060" (1.52mm) Dia.	0.008" (0.2mm)	0.010" (0.25mm)	0.026" (0.66mm)	0.12oz/ft (11.02g/m)



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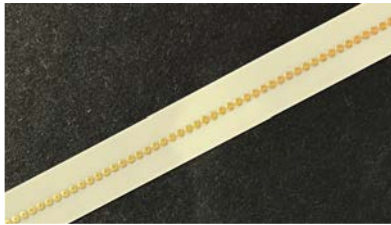


SPECIFICATIONS & PART NUMBERS

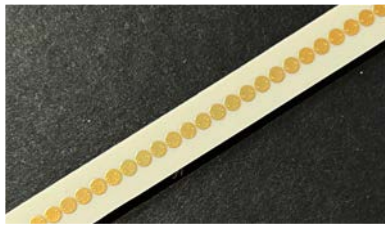
STRIKETAPE PART NUMBERS

Diverter Type	Part Code	Adhesive Tape	Button Style	Termination	Color	Length* (inches)
Large Round (LR)	100-100660	1 = Yes 0 = No	LR	EDG	NC	Up to 330
Small Round (SR)	100-100660	1 = Yes 0 = No	SR	EDG	NC	Up to 330

SMALL ROUND (SR)



LARGE ROUND (LR)



PART # KEY: 100-100660-(Tape)-(Button)-(Termination)-(Color)-(Length).

Ex: 100-100660-0-SR-EDG-NC-330 = StrikeTape with no adhesive tape, Small Round button style, straight termination, natural color, 33.0 inches

*Length is expressed in inches; final digit is a decimal.

Ex: 270 = 27.0 inches. Note: Full diverter strips are 33 inches; can be cut to custom lengths or laid end to end for strips longer than 33 inches.

ALL PARTS ARE TESTED TO AEROSPACE AND WIND ENERGY STANDARDS:

- RTCA/DO-160G Section 23
- SAE ARP5416A
- IEC 61400-24 LPL1



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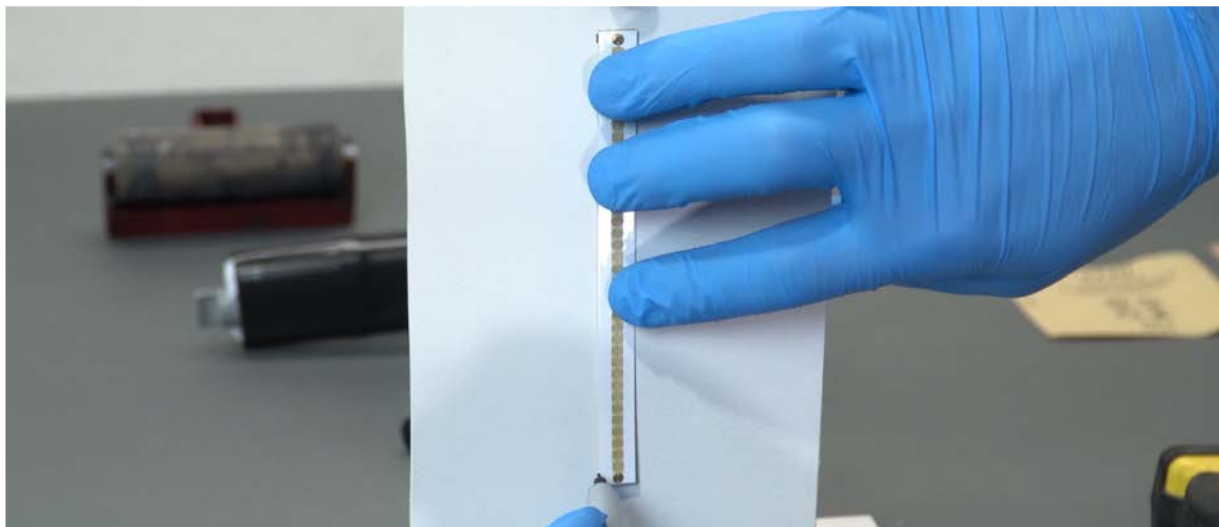


INSTALLATION PROCESS

Installation is an easy, 30-minute process that utilizes our peel-and-stick backing with proprietary epoxy edge sealants.

We provide:

1. Detailed PDF Installation guide with photos
2. Installation video available in six languages - English, Portuguese, Japanese, Spanish, French and German
3. Customer support throughout the process



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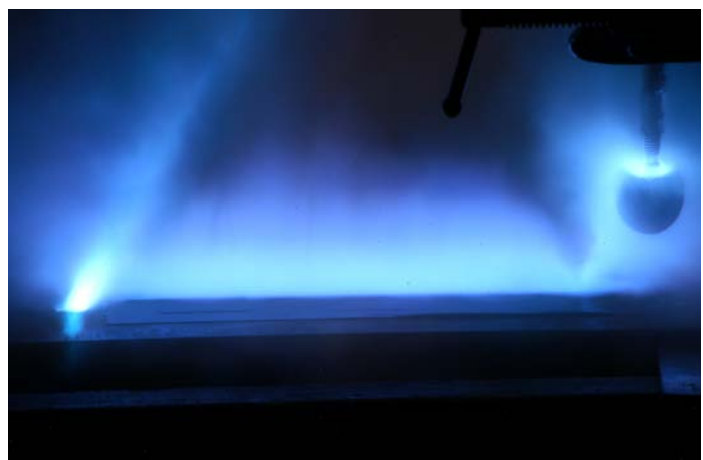
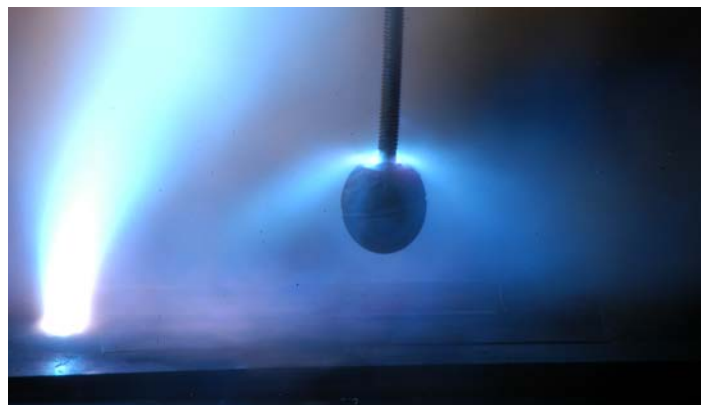


KEEPS PERFORMING AFTER REPEATED STRIKES

At Weather Guard Lightning Tech, we brutally test our lightning diverters to ensure they exceed the highest standards of quality and durability.

StrikeTape survived 16 strikes in lab testing — 5x more than competitors.

Test Number	Peak Current (amps)	Specific Energy (MJ/ohm)
1	130,000	2.3
2	130,000	2.3
3	125,000	2.0
4	123,000	2.0
5	180,000	4.7
6	235,000	6.3
7	227,000	3.9
8	226,000	3.6
9	218,000	3.3
10	214,000	3.5
11	213,000	5.8
12	206,000	5.8
13	212,000	5.9
14	215,000	6.1
15	219,000	6.2
16	225,000	8.5



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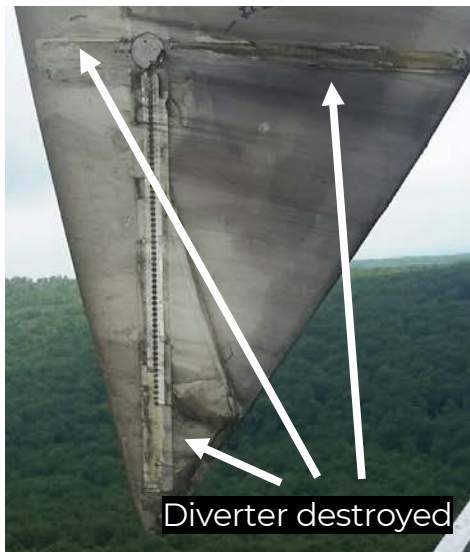
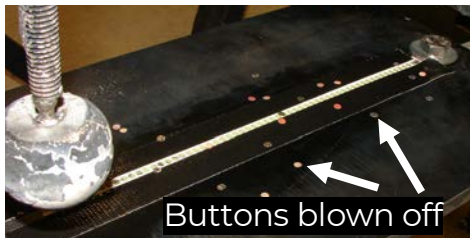
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COMPETING DIVERTERS FAIL & CAUSE DAMAGE

We tested our competitor's diverter in the lab — it fails quickly.

The results were the same in the field — just a few lightning strikes destroyed the diverter, causing major blade damage.



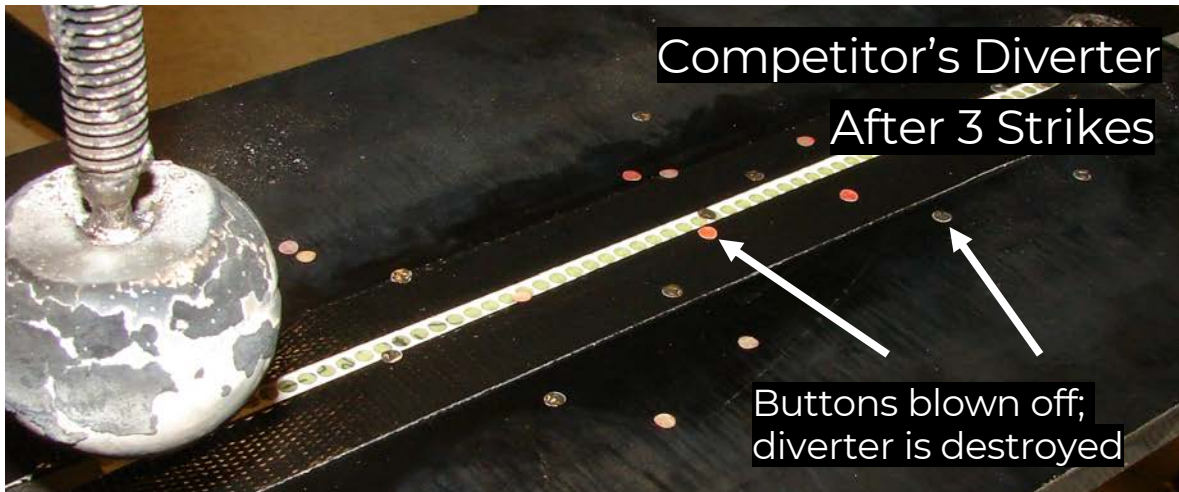
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LAB STRIKES: A COMPARISON



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EXTREME DURABILITY IN RAIN EROSION TESTS

A lightning diverter needs to be able to withstand extreme abrasion from rain, sleet and snow at 300km/h blade tip speeds.

The photo below shows our lightning diverters intact after being blasted by a 480km/h water jet for five minutes.



Standard diverter
erodes away in just 5 minutes

StrikeTape is intact,
still going strong



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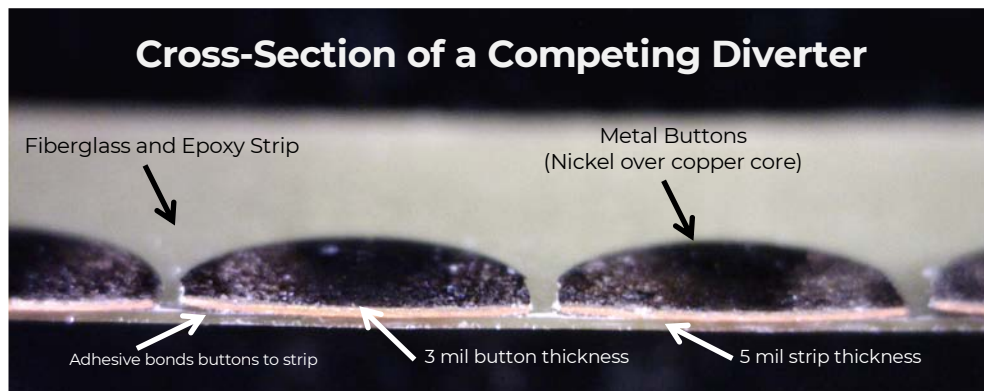
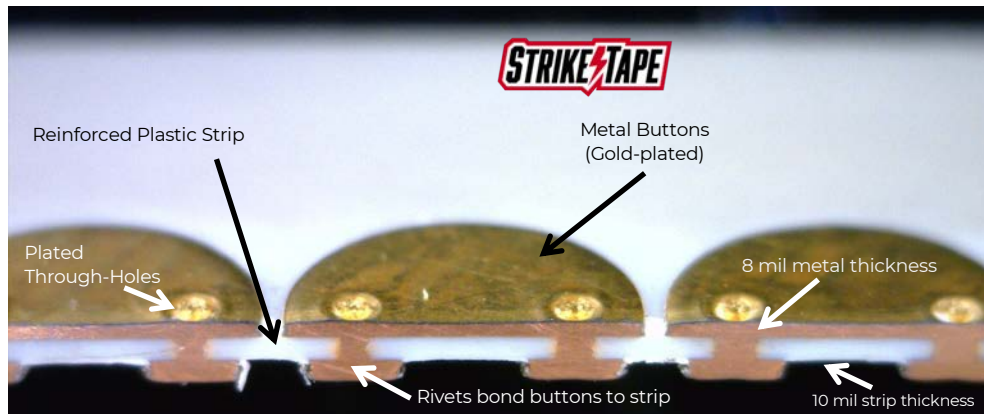
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ADVANCED ENGINEERING QUALITY MANUFACTURING

Superior engineering, materials, and ISO quality assurance means the world's best lighting protection.



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ADVANCED ENGINEERING ADVANCED FEATURES

With no standard specs in the wind industry, StrikeTape was designed by electrical engineers to set its own, unbeatable durability standard.

Feature		Competitor
Strip thickness	10 mils	5 mils
Copper metal core	✓	✓
No effect on blade aerodynamics	✓	✓
Button thickness	8 mils	5 mils
High-tech thermoplastic strip	✓	✗
Gold plated for conductivity	✓	✗
Through-fastened with rivets	✓	✗
3M VHB sticky-back tape	✓	✓
Lasts 16 strikes in lab tests	✓	✗



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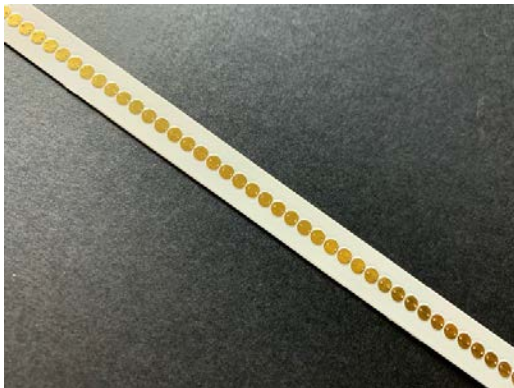
A HISTORY OF PROTECTION

WEATHER GUARD LIGHTNING TECH



ABOUT THE COMPANY

- CEO Allen Hall is an FAA Designated Engineering Representative (DER) for Lightning Direct Effects
- In 2006, Weather Guard Lightning Tech was incorporated.
- StrikeTape lightning diverters were developed in 2011 and are in use all over the world.
- In 2020, Weather Guard Lightning Tech earned AS9100D & ISO9001:2015 quality certification.
- Weather Guard Lightning Tech is the Original Equipment Manufacturer of StrikeTape.
- Give our customer service team a call today!



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We Make Lightning Protection Easy

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General Inquiries

 [413.217.1139](tel:413.217.1139)

 info@wglightning.com

Engineering

 [413.217.1176](tel:413.217.1176)

 allen.hall@wglightning.com

Customer Service and Accounts

 [413.217.1074](tel:413.217.1074)

 valerie.hall@wglightning.com



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