LIGHTNING DIVERTER SPECIFICATIONS

WWW.WEATHERGUARDWIND.COM

Call Us Today – 413.217.1139
Email us - info@wglightning.com
BUTTON & TERMINATION TYPES: TWO STYLES TO CHOOSE

BUTTON TYPES
We offer two button types for wind turbine applications:

**SMALL ROUND (SR)**
- 0.060” Dia.

**LARGE ROUND (LR)**
- 0.125” Dia.

TERMINATION TYPE
For installation on a wind turbine blade, only an edge-cut termination is required in our installation process.

**EDGE CUT (EDG)**

WWW.WEATHERGUARDWIND.COM
Call Us Today – 413.217.1139
Email us - info@wglightning.com
Weather Guard Lightning Tech is a certified ISO9001:2015 & AS9100D 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
- Factory-applied white paint (optional)
- 3M VHB adhesive backing (optional)
STRIKETAPE DIMENSIONS

TOP AND SIDE VIEW DRAWINGS

Top View

0.4 in (10.2 mm)

View A-A

0.026 in (0.66 mm)

STRIKETAPE DIVERTER PART SPECIFICATIONS

<table>
<thead>
<tr>
<th>Diverter Type</th>
<th>Substrate Width</th>
<th>Top Side Button Size</th>
<th>Button Thickness</th>
<th>Substrate Thickness</th>
<th>Overall Thickness</th>
<th>Diverter Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Round (LR)</td>
<td>0.40&quot; (10mm)</td>
<td>0.125&quot; (3.17mm) Dia.</td>
<td>0.008&quot; (0.2mm)</td>
<td>0.010&quot; (0.25mm)</td>
<td>0.026&quot; (0.66mm)</td>
<td>0.13oz/ft (12.21g/m)</td>
</tr>
<tr>
<td>Small Round (SR)</td>
<td>0.40&quot; (10mm)</td>
<td>0.060&quot; (1.52mm) Dia.</td>
<td>0.008&quot; (0.2mm)</td>
<td>0.010&quot; (0.25mm)</td>
<td>0.026&quot; (0.66mm)</td>
<td>0.12oz/ft (11.02g/m)</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS & PART NUMBERS**

**STRIKE TAPE PART NUMBERS**

<table>
<thead>
<tr>
<th>Diverter Type</th>
<th>Part Code</th>
<th>Adhesive Tape</th>
<th>Button Style</th>
<th>Termination</th>
<th>Paint</th>
<th>Length* (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Round (LR)</td>
<td>100-100620</td>
<td>1 = Yes 0 = No</td>
<td>LR</td>
<td>EDG</td>
<td>NC</td>
<td>Up to 330</td>
</tr>
<tr>
<td>Small Round (SR)</td>
<td>100-100620</td>
<td>1 = Yes 0 = No</td>
<td>SR</td>
<td>EDG</td>
<td>NC</td>
<td>Up to 330</td>
</tr>
</tbody>
</table>

**PART # KEY: 100-100620-(Tape)-(Button)-(Termination)-(Color)-(Length).**

Ex: 100-100620-0-SR-EDG-NC-330 = No adhesive tape, Small Round Button, Edge Cut termination, no paint, 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 butted together with EDG termination for longer than 33” strips.

**ALL PARTS ARE TESTED TO AEROSPACE AND WIND ENERGY STANDARDS:**

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

**WWW.WEATHERGUARDWIND.COM**
Call Us Today – 413.217.1139
Email us - info@wglightning.com
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

WWW.WEATHERGUARDWIND.COM
Call Us Today – 413.217.1139
Email us - info@wglightning.com
At Weather Guard Lightning Tech, we brutally test our lightning diverters to ensure they’ll exceed the highest standards of quality and durability.

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

<table>
<thead>
<tr>
<th>Test Number</th>
<th>Peak Current (amps)</th>
<th>Specific Energy (MJ/ohm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>130,000</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>130,000</td>
<td>2.3</td>
</tr>
<tr>
<td>3</td>
<td>125,000</td>
<td>2.0</td>
</tr>
<tr>
<td>4</td>
<td>123,000</td>
<td>2.0</td>
</tr>
<tr>
<td>5</td>
<td>180,000</td>
<td>4.7</td>
</tr>
<tr>
<td>6</td>
<td>235,000</td>
<td>6.3</td>
</tr>
<tr>
<td>7</td>
<td>227,000</td>
<td>3.9</td>
</tr>
<tr>
<td>8</td>
<td>226,000</td>
<td>3.6</td>
</tr>
<tr>
<td>9</td>
<td>218,000</td>
<td>3.3</td>
</tr>
<tr>
<td>10</td>
<td>214,000</td>
<td>3.5</td>
</tr>
<tr>
<td>11</td>
<td>213,000</td>
<td>5.8</td>
</tr>
<tr>
<td>12</td>
<td>206,000</td>
<td>5.8</td>
</tr>
<tr>
<td>13</td>
<td>212,000</td>
<td>5.9</td>
</tr>
<tr>
<td>14</td>
<td>215,000</td>
<td>6.1</td>
</tr>
<tr>
<td>15</td>
<td>219,000</td>
<td>6.2</td>
</tr>
<tr>
<td>16</td>
<td>225,000</td>
<td>8.5</td>
</tr>
</tbody>
</table>
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 lighting strikes destroyed the diverter, causing major blade damage.

Buttons blown off

Diverter destroyed

Lightning damage - holes in blade

WWW.WEATHERGUARDWIND.COM
Call Us Today – 413.217.1139
Email us - info@wglightning.com
LAB STRIKES: A COMPARISON

Competitors’ Diverter

After 3 strikes

Buttons blown off; diverter is destroyed

After 16 strikes, all buttons still intact
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.

Our competitor

Standard diverter erodes away in just 5 minutes

StrikeTape is intact, still going strong

WWW.WEATHERGUARDWIND.COM
Call Us Today – 413.217.1139
Email us - info@wglightning.com
Superior engineering, materials, and ISO quality assurance means the world’s best lighting protection.
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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>StrikeTape</th>
<th>Competitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strip thickness</td>
<td>10 mils</td>
<td>5 mils</td>
</tr>
<tr>
<td>Copper metal core</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>No effect on blade aerodynamics</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Button thickness</td>
<td>8 mils</td>
<td>5 mils</td>
</tr>
<tr>
<td>High-tech thermoplastic strip</td>
<td>✓</td>
<td>×</td>
</tr>
<tr>
<td>Gold plated for conductivity</td>
<td>✓</td>
<td>×</td>
</tr>
<tr>
<td>Through-fastened with rivets</td>
<td>✓</td>
<td>×</td>
</tr>
<tr>
<td>3M VHB sticky-back tape</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Lasts 16 strikes in lab tests</td>
<td>✓</td>
<td>×</td>
</tr>
</tbody>
</table>

WWW.WEATHERGUARDWIND.COM
Call Us Today – 413.217.1139
Email us - info@wglighting.com
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.


• Weather Guard Lightning Tech is the Original Equipment Manufacturer of StrikeTape.

• Give our customer service team a call today!

WWW.WEATHERGUARDWIND.COM
Call Us Today – 413.217.1139
Email us - info@wglightning.com
We Make Lightning Protection Easy

Contact Us Today

General Inquiries

📞 413.217.1139
✉️ info@wglightning.com

Engineering

📞 413.217.1176
✉️ allen.hall@wglightning.com

Customer Service and Accounts

📞 413.217.1074
✉️ valerie.hall@wglightning.com