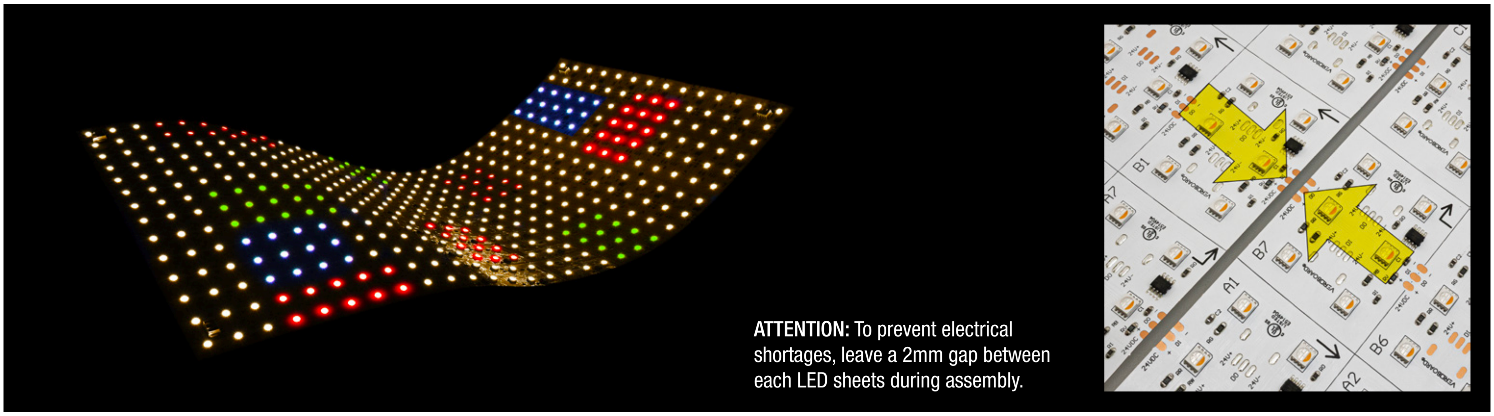
VEROBOARD®

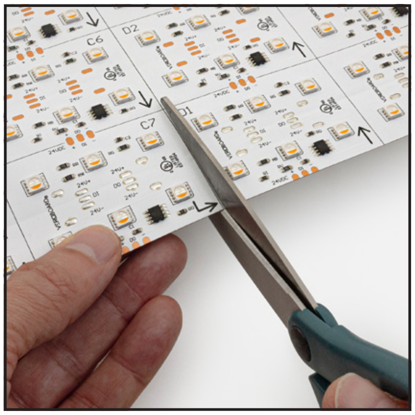
LED Type: VBDSH-5050-RGB27D-420-24-NS
Colour: RGB27 (UC2904)

Installation Sheet

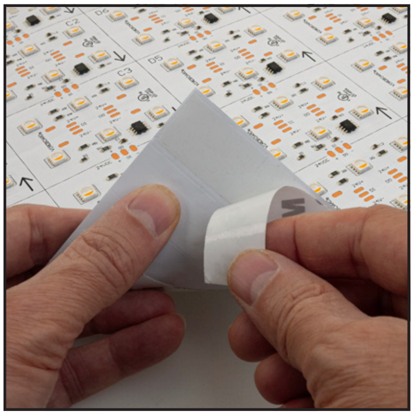
Before installing the LED sheets, please read these instructions carefully.



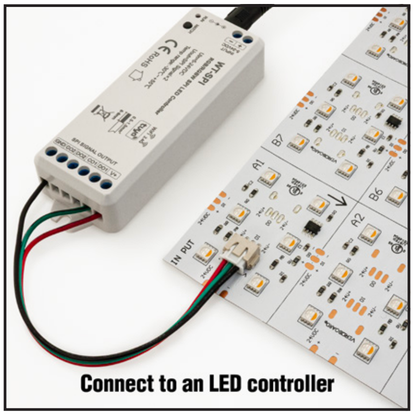
ATTENTION: To prevent electrical shortages, leave a 2mm gap between each LED sheets during assembly.



Easily tailor the LED sheet to suit your requirements by cutting it in any direction.

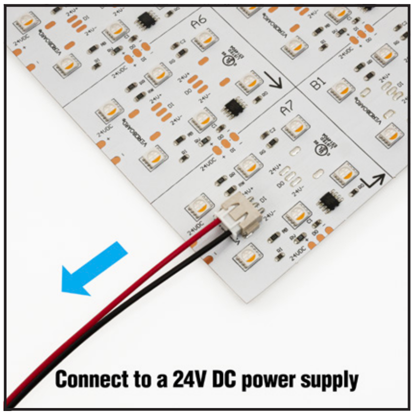


The LED sheet comes with 3M double-sided tape backing, making it easy to apply on flat or curved surfaces such as wood, metal, stone.



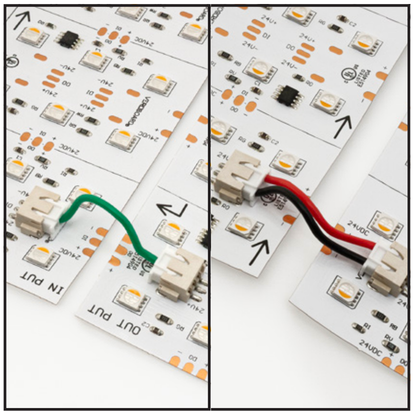
Connect to an LED controller

Use the 6" cables (Red, Green, Black) to connect the LED sheet to the Controller.



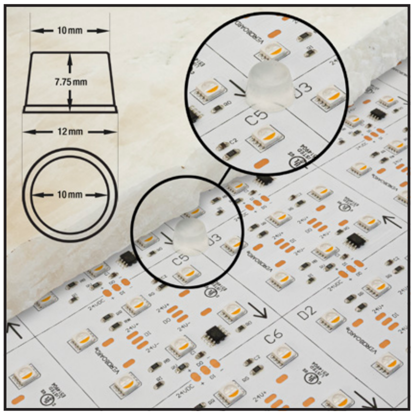
Connect to a 24V DC power supply

Connect 6" Red and Black Wire to 24V DC Power Supply.



Use the 1.6" green (data) connectors to link two LED sheets for synchronized color changing.

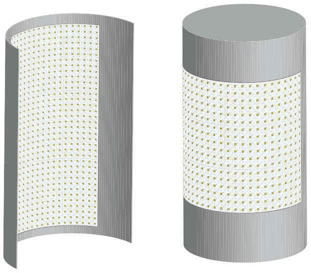
Connect the 1.6" red and black connectors to provide power to the new LED sheet.



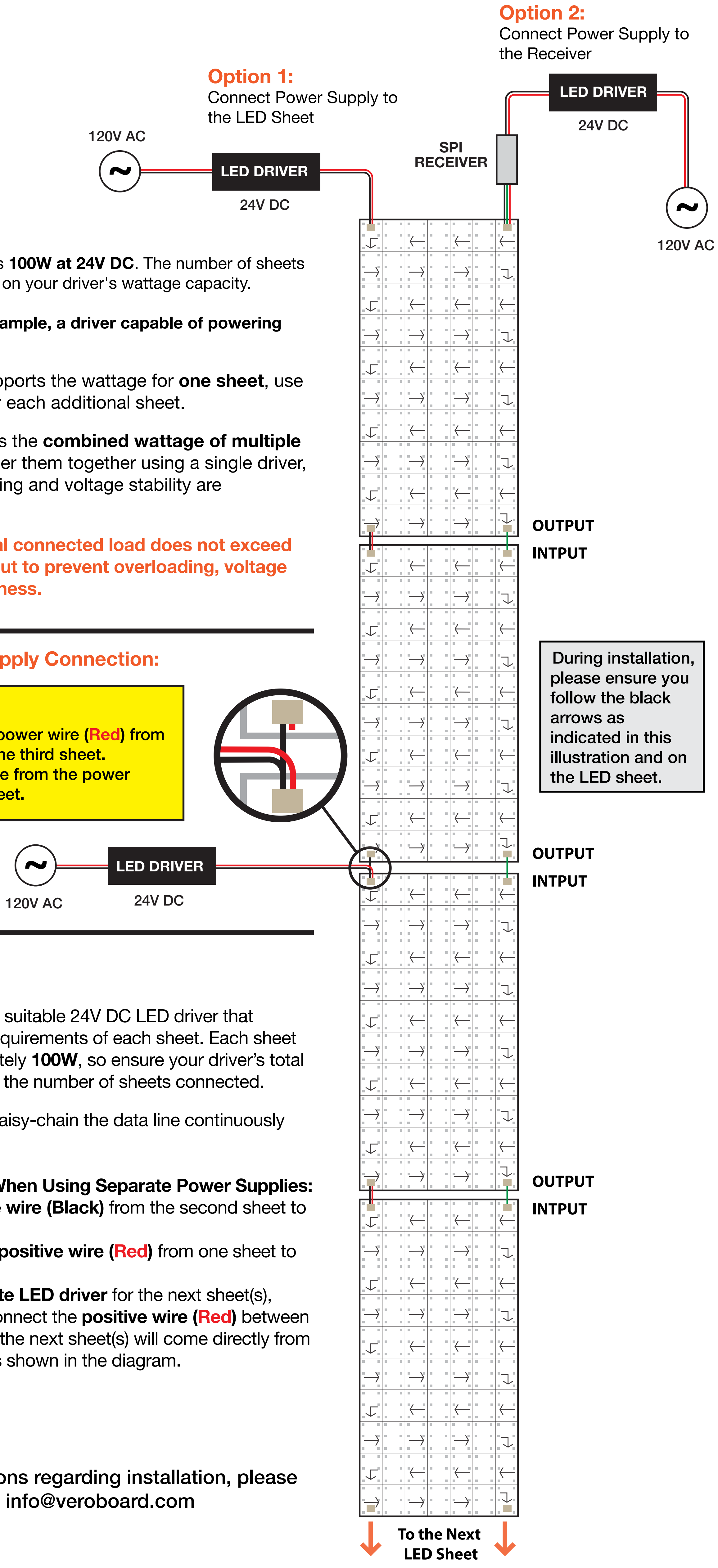
Employing silicon bumpers to prevent direct contact between the stone marble and the LED sheet.

Disclaimer:

The information contained in this installation sheet should not be considered a warranty, expressed or implied, including, but not limited to, a warranty of merchantability or fitness for a particular purpose. In no event shall Veroboard be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.



The flexibility of the LED sheet allows you to bend it in all directions.


Option 1:
Connect Power Supply to the LED Sheet
120V AC
LED DRIVER
24V DC
Option 2:
Connect Power Supply to the Receiver
LED DRIVER
24V DC
SPI RECEIVER
120V AC
OUTPUT
INTPUT
OUTPUT
INTPUT
LED DRIVER
120V AC
24V DC
OUTPUT
INTPUT
To the Next LED Sheet

During installation, please ensure you follow the black arrows as indicated in this illustration and on the LED sheet.

Important Note:

Each LED sheet consumes **100W at 24V DC**. The number of sheets you can connect depends on your driver's wattage capacity.

In this wiring diagram example, a driver capable of powering two LED sheets is used.

- If your driver only supports the wattage for **one sheet**, use a **separate driver** for each additional sheet.
- If your driver supports the **combined wattage of multiple sheets**, you can power them together using a single driver, as long as proper wiring and voltage stability are maintained.

Always ensure the total connected load does not exceed yourdriver's rated output to prevent overloading, voltage drop, or uneven brightness.

Additional Power Supply Connection:

Important Note:

- Do NOT connect the power wire (Red) from the second sheet to the third sheet.
- Connect the (Red) wire from the power supply to the third sheet.

Wiring Diagram:

- **Power Supply:** Use a suitable 24V DC LED driver that matches the power requirements of each sheet. Each sheet consumes approximately **100W**, so ensure your driver's total output is sufficient for the number of sheets connected.
- **Data Wire (Green)**: Daisy-chain the data line continuously between each sheet.
- **Power Connection When Using Separate Power Supplies:**

– Connect the **negative wire (Black)** from the second sheet to the third sheet.
– **Do NOT** connect the **positive wire (Red)** from one sheet to the next sheet.
– When using a **separate LED driver** for the next sheet(s), there is **no need** to connect the **positive wire (Red)** between sheets; the power for the next sheet(s) will come directly from the separate driver, as shown in the diagram.

If you have any questions regarding installation, please email us at: info@veroboard.com