Wattstopper® PLUS

SensiLUM® Wireless Integrated Sensor

Installation Instructions • Instructions d'Installation • Instrucciones de Instalación

No: 080347 – 10/26 rev. 6

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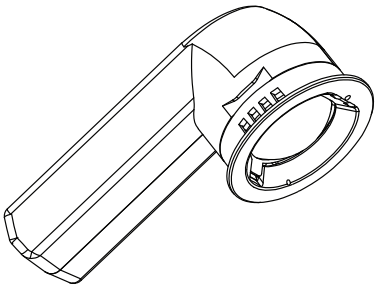


PRODUCT SAFETY

When using electrical equipment, basic safety precautions should always be followed, including the following:

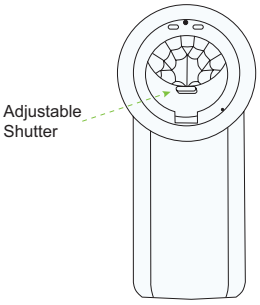
- Do not mount near gas or electric heaters or let power supply cords touch hot surfaces.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment is not recommended by Legrand as it may cause an unsafe condition.
- Do not use this equipment for other than the intended use.

SPECIFICATIONS

Voltage ..... 12-24 VDC
Current Consumption ..... 46 mA Max
Wireless Range ..... 30 m (100 ft) line of sight,
..... 15.2 m (50 ft) through standard walls
.....Acts as repeater device when in range of 3 repeater devices
Number of Control Outputs ..... Each CLM can handle10 0-10V LED
.....drivers or 4 DALI Drivers with Self-Powered DALI Link
..... in parallel connection
Operating Temperature .....32° to 140°F (0° to 60°C)
Relative Humidity .....0% to 95%, non-condensing
Certifications
UL/cUL 2043 Class 2 Plenum Rated
UL 924, Emergency Lighting and Power Equipment
FCC part 15 Class A
Environmental Suitability IP20

DESCRIPTION

The SensiLUM® Wireless Integrated Sensor allows for brightness and On/Off control of its luminaire as well as collects occupancy and daylight information. The SensiLUM communicates wirelessly to a Wattstopper PLUS Wireless Manager.

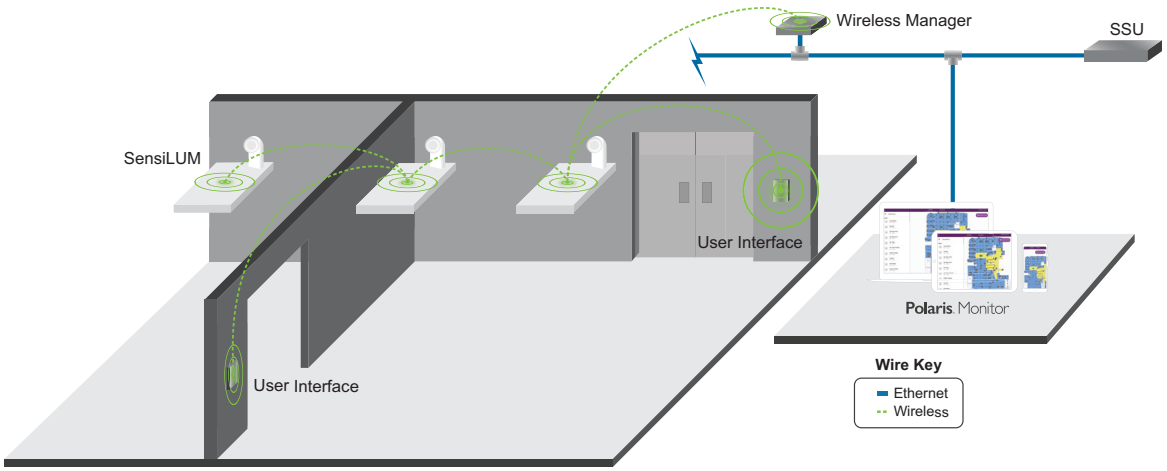


Adjustable Shutter

The dual-axis shutter allows end user to fine tune field of view based on the luminaire's placement in the applications space.

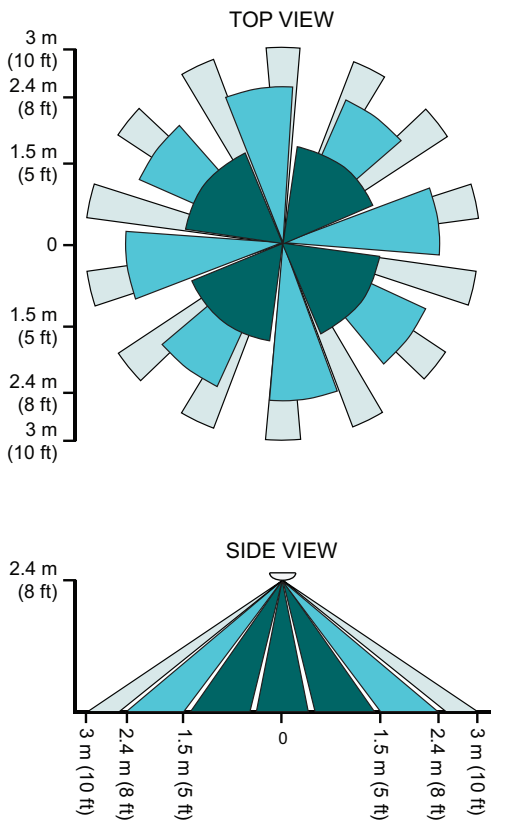
WIRELESS SYSTEM OVERVIEW

This illustration shows how each component is easily integrated into the Wattstopper PLUS System.

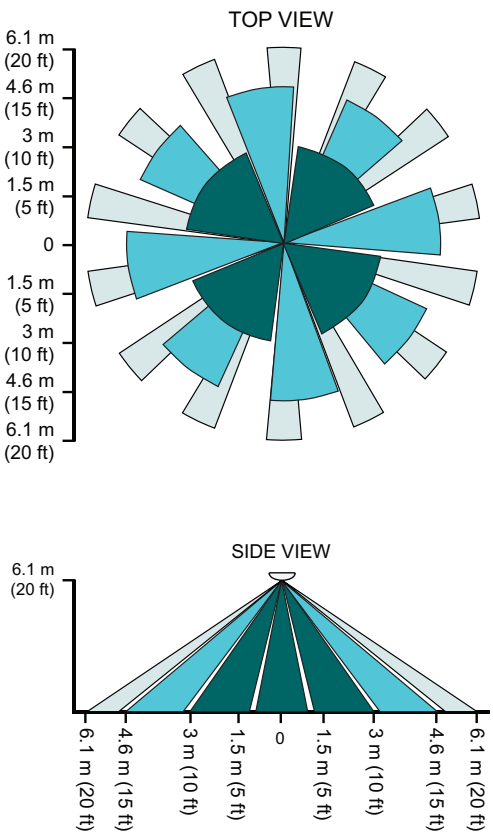


SENSOR COVERAGE

3 m (10 ft)



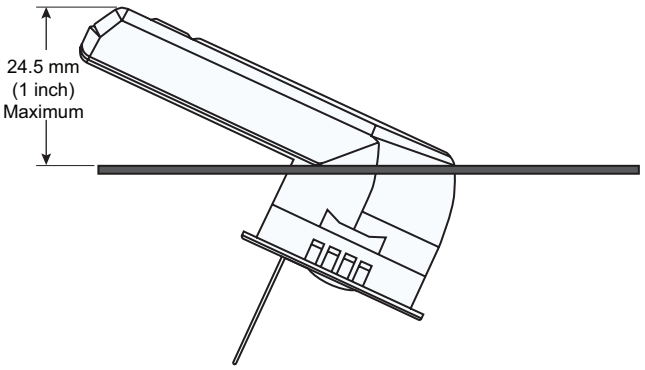
6.1 m (20 ft)



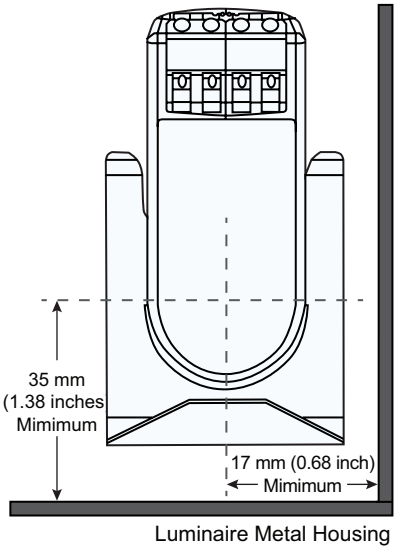
INSTALLATION

Before initiating the installation, please note the minimum mechanical requirements.

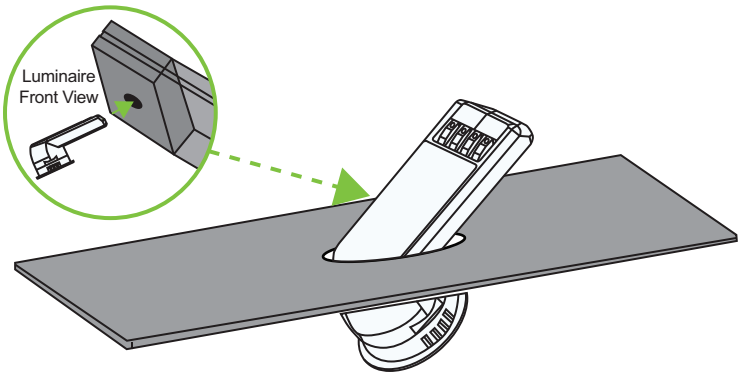
Minimum height required in luminaires to mount the sensor.



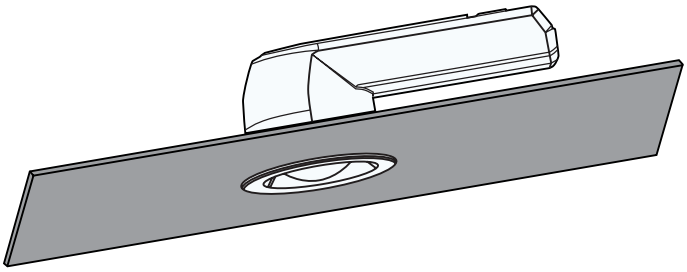
Minimum Requirements for Placing the Pre-Drilled Hole



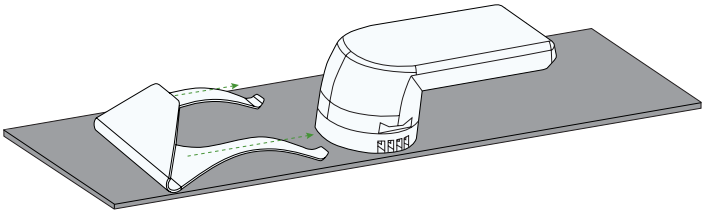
1. Push the sensor through the pre-drilled PG-7 (0.5 inch) trade-size (22.25 mm ±0.25 mm or 0.875 inch ±0.01 inch) hole.

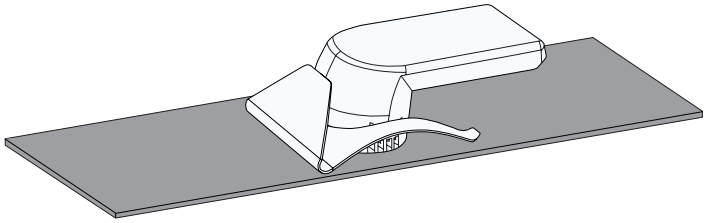


2. Position the sensor flush to the luminaire metal casing.

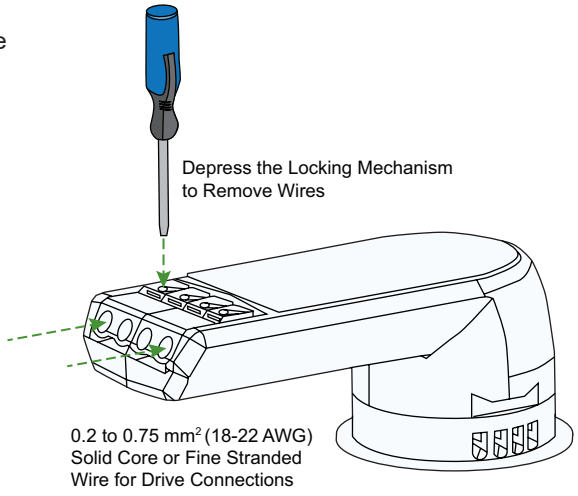


3. Push the clip towards the sensor until curved metal piece is clamped into the sensor groove.

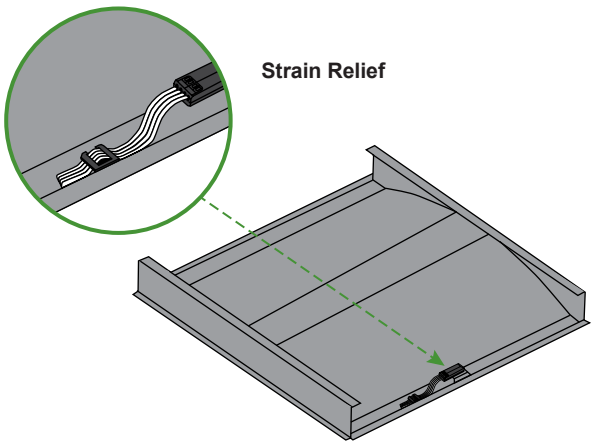


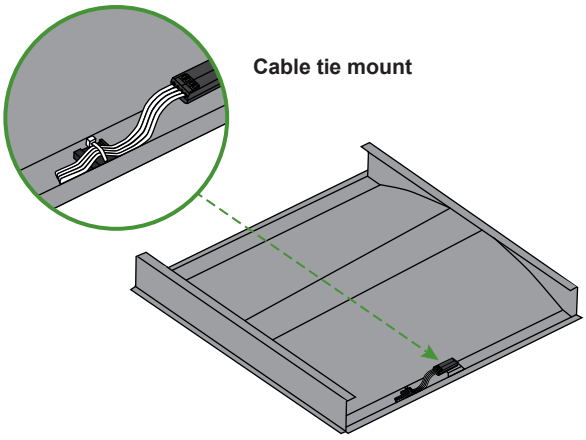


4. Connect wires as shown in section “Electrical Connections”.
   NOTE: Use a Solid core wire – 0.2 to 0.75 mm² (18-22 AWG). Using a wire with a higher thickness will cause insufficient connection.



5. Apply strain relief to the wires using either (1) a built-in strain relief or (2) a stick-on adhesive backed cable tie mount, as well as a cable tie.





WIRING

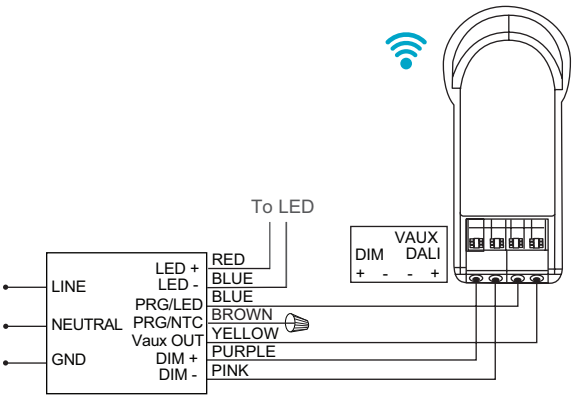
A solid core or fine stranded wire of 0.2 to 0.75 mm^2 (18-22 AWG) is to be used with a recommended strip length of 7 to 9 mm (0.27 to 0.35 inch) to ensure secure connection.

WARNING: TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE WIRING.

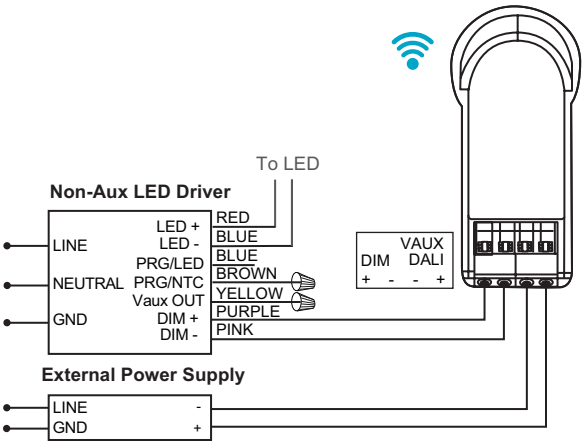
0-10V LED Driver Wiring Diagrams

NOTE: The LED Driver must have dim to off enabled.

0-10V LED Driver with Auxiliary Power Output

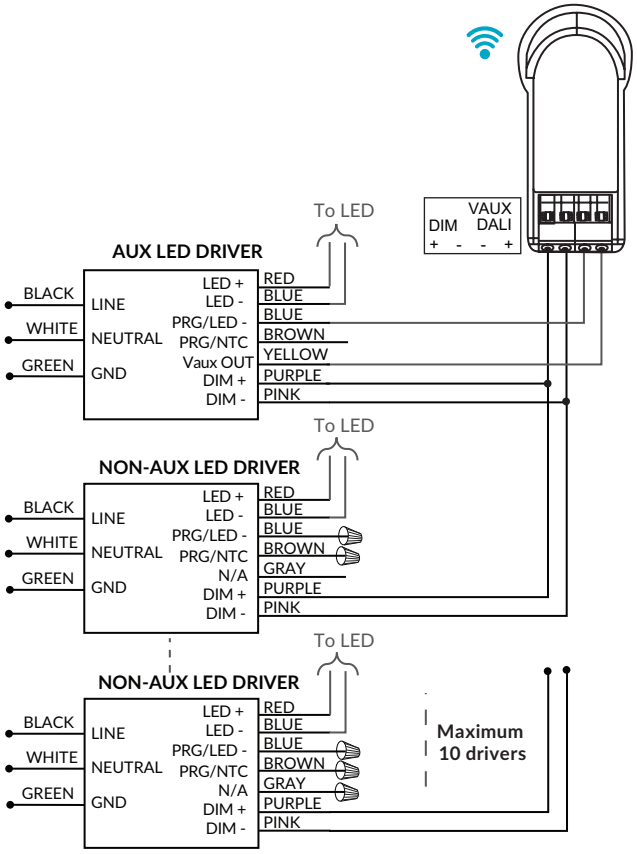


0-10V LED Driver with External Power Supply



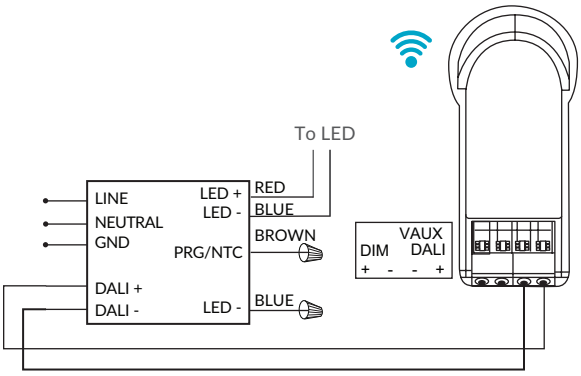
Multiple 0-10V LED Drivers

This wiring is suitable for luminaires with multiple LED power supplies that are to be controlled uniformly by a single module.



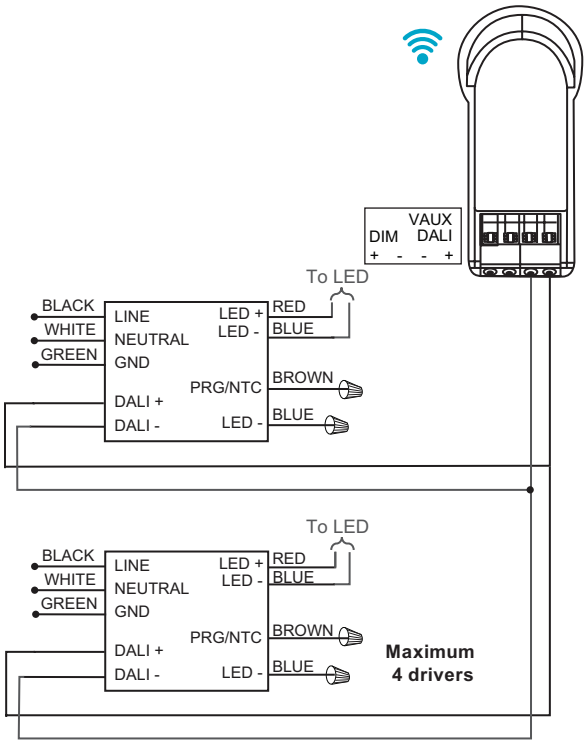
Self-powered DALI LINK Wiring Diagrams

Single DALI LED Driver



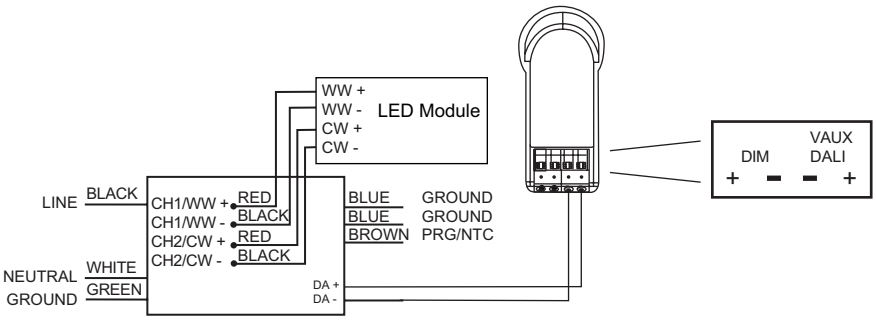
Multiple DALI LED Drivers

When using DALI LED drivers, the DALI setting needs to be enabled and programmed on the driver. By default, this setting is enabled for drivers out-of-the-box.



Tunable White Wiring Diagrams

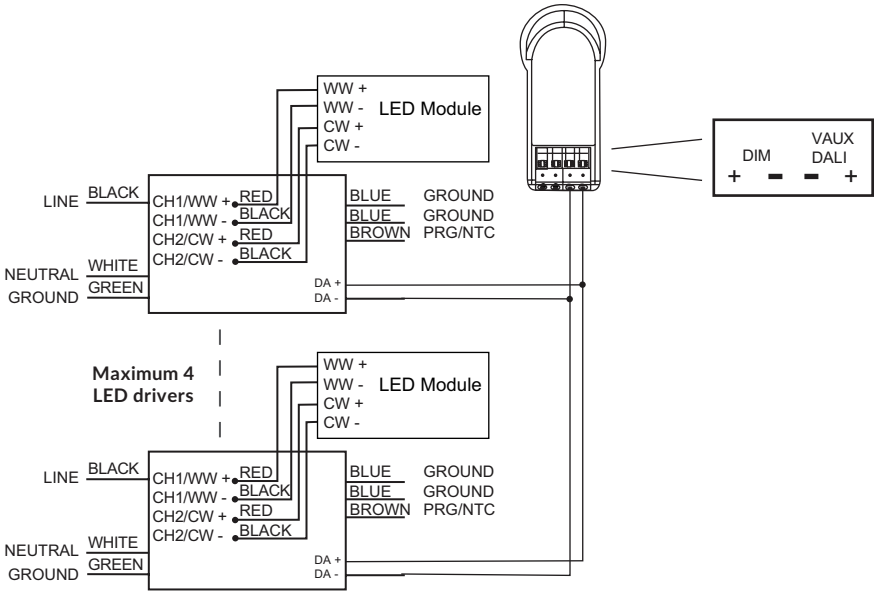
Single DALI LED Driver



Tunable White Wiring Diagrams

Multiple DALI LED Drivers

When wiring multiple LED drivers to a single module, group the DA+ and DA- and follow the polarity as shown. A maximum of 4 LED drivers can be connected to a single module.



END-OF-LINE TESTING

To facilitate OEMs conducting operation tests at the end of the manufacturing line with control modules installed, an end-of-line testing routine is pre-programmed into the device that confirms wiring and wireless communications. When the luminaire is powered, the fixture turns ON and reaches its full output. The sensor module then cycles through the entire dimming range starting from 100% output to OFF* two times. This confirms that the module is receiving power and is able to communicate with the driver. If connected to a tunable white driver, an additional cycle of color temperature will occur, cycling the fixture from maximum cool (e.g. 6500K) to maximum warm (e.g. 2700K).

This end-of-line testing routine repeats whenever power is removed and reapplied to the device, for the first 10 times the devices is powered. Afterwards, the luminaire simply powers on. If additional wiring testing is needed, the Wiring Test Tool (EN-WTT-ZB) can be used to execute the end-of-line test sequence (available until the device is commissioned into a Wattstopper PLUS system), also confirming wireless communications. See the Wiring Test Tool user guide for more information.

WARRANTY INFORMATION

Wattstopper warranties its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Wattstopper for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

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Wattstopper garantit que ses produits sont exempts de défauts de matériaux et de fabrication pour une période de cinq (5) ans. Wattstopper ne peut être tenu responsable de tout dommage consécutif causé par ou lié à l'utilisation ou à la performance de ce produit ou tout autre dommage indirect lié à la perte de propriété, de revenus, ou de profits, ou aux coûts d'enlèvement, d'installation ou de réinstallation.

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Wattstopper garantiza que sus productos están libres de defectos en materiales y mano de obra por un período de cinco (5) años. No existen obligaciones ni responsabilidades por parte de Wattstopper por daños consecuentes que se deriven o estén relacionados con el uso o el rendimiento de este producto u otros daños indirectos con respecto a la pérdida de propiedad, renta o ganancias, o al costo de extracción, instalación o reinstalación.

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