



EXPERTS IN THERMAL MANAGEMENT SOLUTIONS

CUSTOMER
LED lighting designer and retrofitter

PART
Thermal interface pad

MATERIAL
Saint-Gobain Therm-A-Cool® TF407

APPLICATION
Thermal interface pad conducts heat from the LED board to the heat sink.

MARIAN ADVANTAGE
Material expertise, cost-effective solution, easy assembly.

CHALLENGE

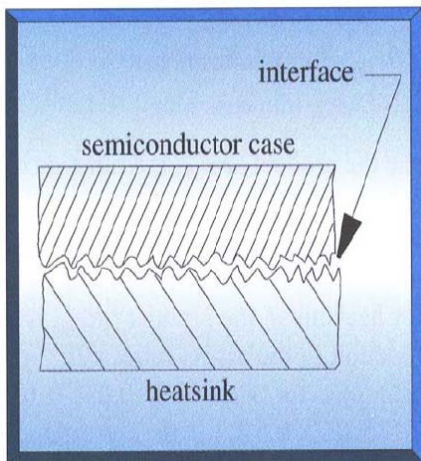
This customer's business involves removing conventional bulbs from existing lighting structures and replacing them with LEDs (light emitting diodes). LED lighting is a popular option because it is better for the environment and has a much longer service life in contrast to conventional lighting. However, LEDs produce **more heat** than many original lighting fixtures can handle. As a result, the **brilliance of their light is weakened** and their **life span is shortened**. To manage the extra heat, the customer had been using thermal grease, but it was **messy** and had been **contaminating** other components. They needed an alternative.

SOLUTION

Marian offered to supply the customer with a **thermal interface pad** that would **perform well at conducting the heat** to the heat sink and would also be **cost effective**. The pad eliminated the need for messy thermal grease and ensured the integrity of the other LED lighting components.

CUSTOMER BENEFITS

- ◆ Marian narrowed down the many thermal management material choices to a proven material that was **clean and conducted heat well**.
- ◆ The thermal interface pad offered a **more uniform coverage** of the LED board surface area, which meant that the transfer of heat was optimized.
- ◆ Marian **saved the customer in costs** by replacing thermal grease with a thermal pad, thus ensuring that the other LED lighting components would last longer.
- ◆ Marian also made the parts user-friendly by providing them on rolls, which made **assembly easier and more efficient**.



Interface gap needs a thermal pad

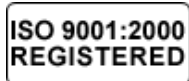


LED Board



Thermal Interface Pad

Retrofitted LED Stoplight



Flexible Solutions for Industry
sales@marianinc.com
www.marianinc.com

