



CASE STUDY POLELED

RELIABLE PARTNER FOR LED, LENSES, AND TECHNOLOGY

PoleLed provides lighting for flagpoles, from snowy regions to deserts. Their LED lighting needs to perform under extreme conditions. After Chinese LED lamps failed, PoleLed opted for Thal Technologies. A choice that has paid off.



RADIANTLY VISIBLE

Flags and banners are powerful attention grabbers for businesses and shops. They proudly wave, guiding and welcoming you. Scientific research shows that movement combined with light gives the highest visual attention value. This visibility – and therefore findability – is extended by about 45% per day. The Gelderland-based company delivers worldwide, ensuring their lighting withstands any wind direction, temperature highs or lows, and meets the highest standards for energy consumption and efficiency.

SOLVED

PoleLed applied Thal's heat conduction know-how in a new, third-generation aluminum lighting model. "The heat problem caused by the electronics was solved at once," says Dennis van de Peppel, partner at PoleLed. "Moreover, Thal advised us on condensation solutions. The light beam is covered with a glass plate, sealed with a special sealant. However, temperature differences can still cause condensation; one drop of moisture can extinguish the light. Thal Technologies recommended a special filter for all outdoor fixtures, which allows moisture to escape but not enter. Now this filter is standard in all fixtures. We've never had moisture issues again."



"Our previous model was too small for this. Thal Technologies then sat down with us."

Dennis van de Peppel
Head of Marketing & Sales



THE POLELED EXTENDED.
LED FROM THAL TECHNOLOGIES

GURU

The need for a new model arose when IKEA ordered to illuminate all flags at their Dutch stores. "Our previous model was too small for that. Thal Technologies sat down with us. Owner Ad Musters is practically the LED master of the Netherlands. With the fixture on the table, he starts drawing and calculating in his notebook."

HIGH DEMANDS

“We place the lighting fixture close to the ground, around the flagpole, or halfway up the pole, just below the flag. This creates optimal visibility. The challenge is to get a light beam powerful enough to shine upwards and spread out. Initially, we spent a long time finding the right optics and lenses to achieve the desired result.”

FAULTY LAMPS

Initially, PoleLed had 500 LED lamps made in China for this purpose. “That didn’t quite work out. Not with the communication, but also because those 500 bulbs were not glued properly. Moreover, we had our doubts about the durability and quality of the drivers.”

MORE EFFICIENT PRODUCTION

PoleLed opted for production closer to home and asked Thal tech to develop and produce the LED modules and lenses. “This was also easier for assembly at PoleLed, as our lamp consists of twelve LEDs that were then screwed and soldered one by one. Thal Technologies has since devised a method for easier and faster assembly. Thal developed an LED module that can be quickly and easily placed in the fixtures. Previously, we made forty lamps a week; now, we can make a hundred a day if necessary.”

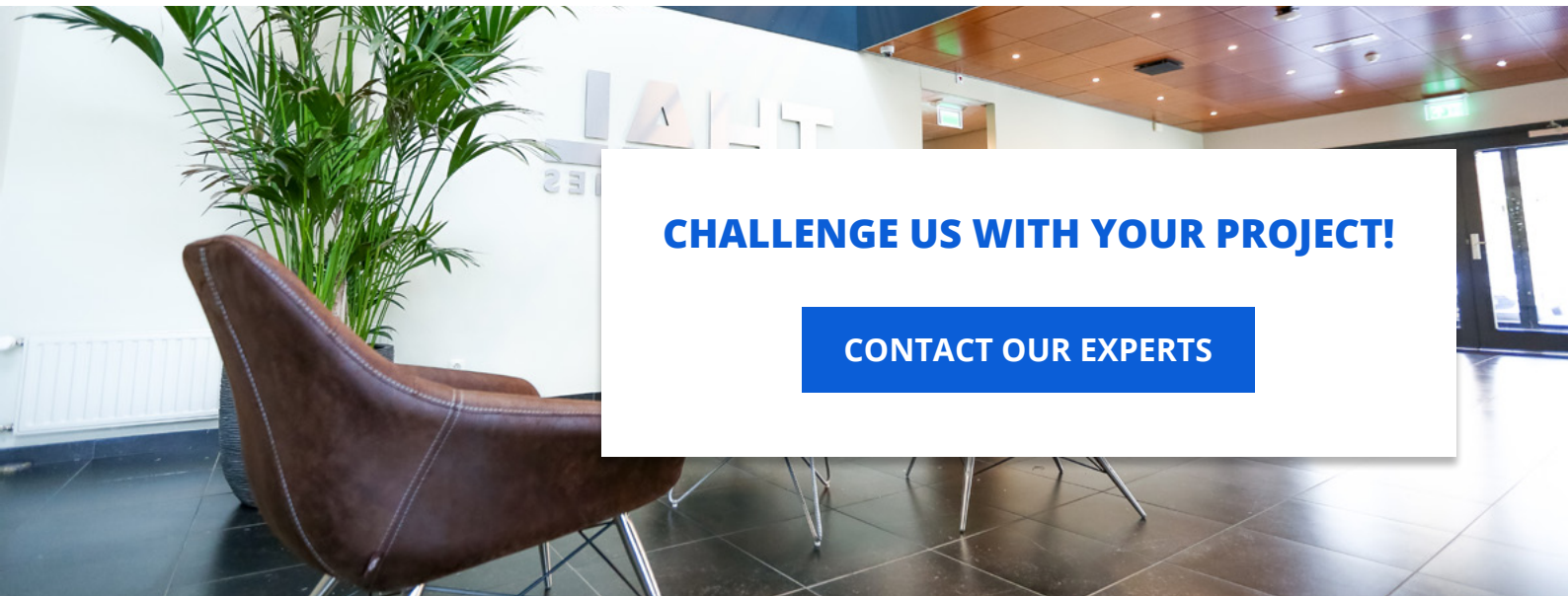


DIT IS THAL TECHNOLOGIES

Thal Technologies in Almere has been advising, designing, assembling and manufacturing for 20 years in the field of thermal management and LED lighting.

We supply heat-conducting materials for use in electronics. This makes Thal Technologies a specialist in solving heat problems. Cooling the hardware extends its life, prevents overheating and increases performance.

Thal Technologies also develops and produces customized industrial LED solutions. These high-quality LED modules can be found in horticulture, aviation, offshore and onshore wind turbines. Thal Technologies stands for quality. We guarantee this with our ISO certifications and with certifications that suit the various industries in which Thal Technologies is active. But also with extensive traceability of components and raw materials.



CHALLENGE US WITH YOUR PROJECT!

CONTACT OUR EXPERTS

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INCREASE YOUR VISIBILITY

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