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Wireless LED lighting powered by aluminium foil

Stogger BV of the Netherlands has worked with **Novelis Deutschland** to create a simple and less labour intensive, wireless LED lighting solution, using aluminium foil to carry the electric current. **Stogger Wireless Lighting** convinced the Alufoil Trophy 2018 judges and it received an award in the Technical Innovation category of the competition.

The aluminium foil replaces wired assemblies which are both expensive and time consuming to set up, says Stogger. The PowerBoard is a recycled PET panel, laminated with three layers of aluminium alloy AA 1200 and the wireless LED lights are just screwed anywhere into the surface.



“Often simple solutions are the most elegant and effective and this is certainly the case here,” was one of the supporting comments of the judging panel, which comprised industry specialists from across the alufoil sector.

“The layers of aluminium foil are excellent conductors of electricity and enable the modules, or letterboxes, to be made in many intricate shapes and sizes, quickly and with the potential of using automated assembly methods. A real advance in technology on many levels,” he added.

Additionally, the LED modules achieve seamless light distribution using the company’s square lens technology. Manual placing of wires is completely eliminated; this often-intricate task was both costly and time consuming, as well as making assembly of signs quite difficult.

Pieter Peeters, co-founder of Stogger commented on the award, “Stogger as well as Novelis are very proud that this new, patented technology is being recognised within the aluminium industry by winning the Alufoil Trophy 2018. We hope that winning this Trophy opens doors, in our search to find the right distribution and development partners to roll out our new technology.”

Stogger Wireless Lighting also enables a very even lighting distribution, without the need for the usual long, trial and error process. Another advantage is that the letterbox production can be fully automated, which was previously impossible.

The Alufoil Trophy is organised by the European Aluminium Foil Association. There are five categories – Consumer Convenience, Marketing + Design, Product Protection, Resource Efficiency and Technical Innovation. For the Alufoil Trophy 2018 there were ten winners.

High-resolution pictures can be downloaded and all winning entries can be viewed at
www.trophy.alufoil.org

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The European Aluminium Foil Association is the international body representing companies engaged in the rolling and rewinding of alufoil and in the manufacture of aluminium closures, alufoil semi-rigid containers and of all kind of flexible packaging. Its more than 100 members include companies in Western, Central and Eastern Europe.
www.alufoil.org