

# PRODUCT INNOVATION

Frameless Luminaire

ADO  <sup>®</sup>  
by TTC Timmler Technology

PRODUCT DEVELOPMENT in cooperation with

Fraunhofer Institut Stuttgart | Prof. Dr. Helmut F. O. Müller, Green Building R&D, Düsseldorf | Matthias Kraemer, SSP AG, Bochum

### Light surrounded by glass

The collaboration with Matthias Kraemer and Prof. Helmut Müller resulted in our latest product innovation: the „frameless“ luminaire – a product idea that originally came about through our „TaLed“ research project with the Fraunhofer Institut in Stuttgart.

Here, a glass pane was vaporized with a microstructure in order to generate a light deflection, which enables the LED

light sources integrated in a glass frame to decouple the light in the glass elements. Possible future products are, for example, glass partition walls as light sources, light steels for office workplaces or light ceilings. Using up-to-date methods, it will be possible to integrate this microstructure in such a way it is no longer visible to our eyes.

→ Managing director Patrick Timmler and product developer Stefan Züll with a 1:1-prototype of the frameless luminaire



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## Frameless Luminaire



PRODUCT DEVELOPMENT  
Glass partition + light source



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