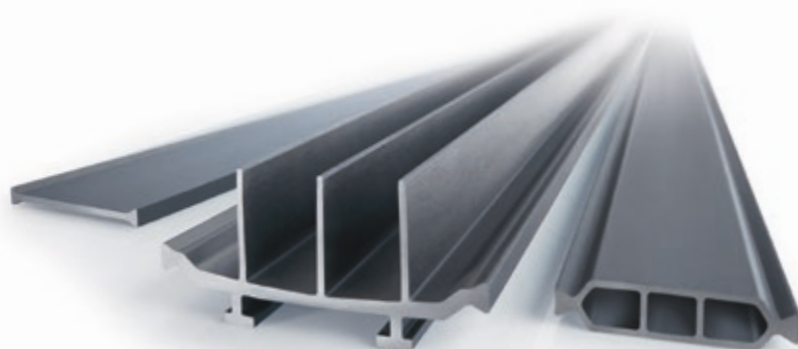




Insulbar® LO

Ensinger has shrunk the lambda value!



NEW!



Slimmed-down thermal insulation:
Smaller installation depth or better U_f values?
insulbar® LO makes both things possible!

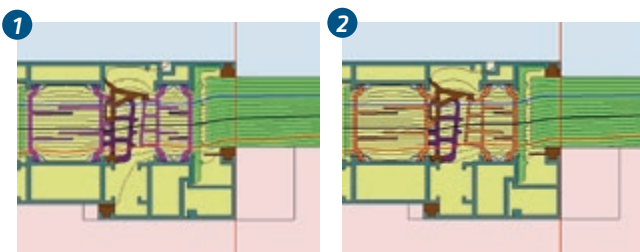
**Reduced
installation
depth**

The new High Efficiency insulating bar. Low lambda, large benefits!

Low U_w values and an attractive appearance are key requirements placed by building owners and architects on window, door and façade systems. Small installation depths are in fashion. insulbar® LO, the new lambda-optimized insulating profile from Ensinger, gives system manufacturers scope for fulfilling these wishes - in the customary high quality and required stability.

Better thermal insulation - more possibilities

With its low thermal conduction capacity ($\lambda = 0.18 \text{ W/m}\cdot\text{K}$), insulbar® LO brings about the very effective thermal separation of aluminium outer and inner shells and thereby particularly low U_f values. The insulating bar is consequently the ideal solution for producing delicate, visually appealing systems with reduced installation depths and optionally also slimmer visible widths. At the same time, it offers outstanding thermal insulation properties.



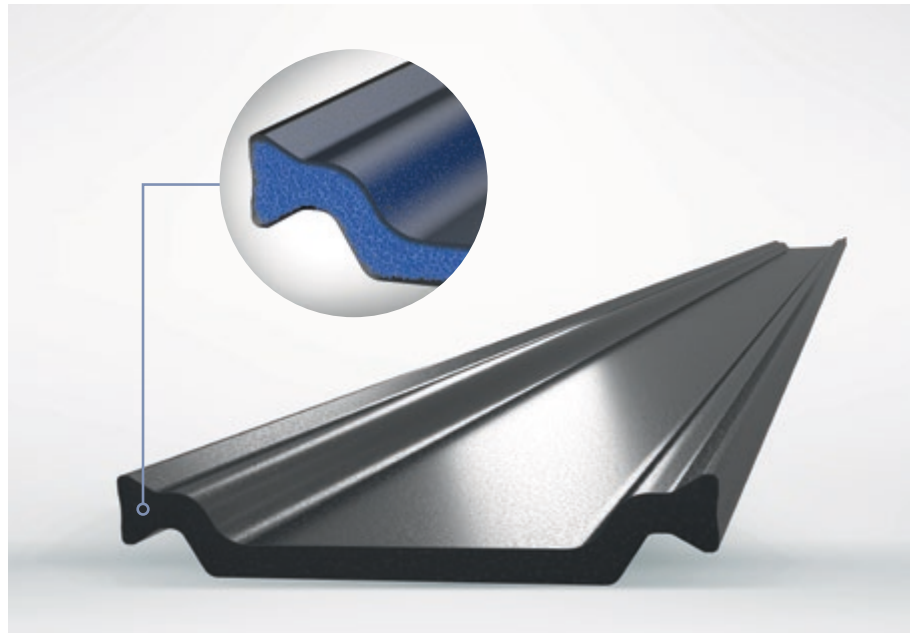
The insulating bar is what makes the difference.

- 1 U_f value = 1.3: window system with installation depth = 73 mm and insulating bar made from PA 66 GF25
- 2 U_f value = 1.15: identical window system with insulating bar insulbar® LO

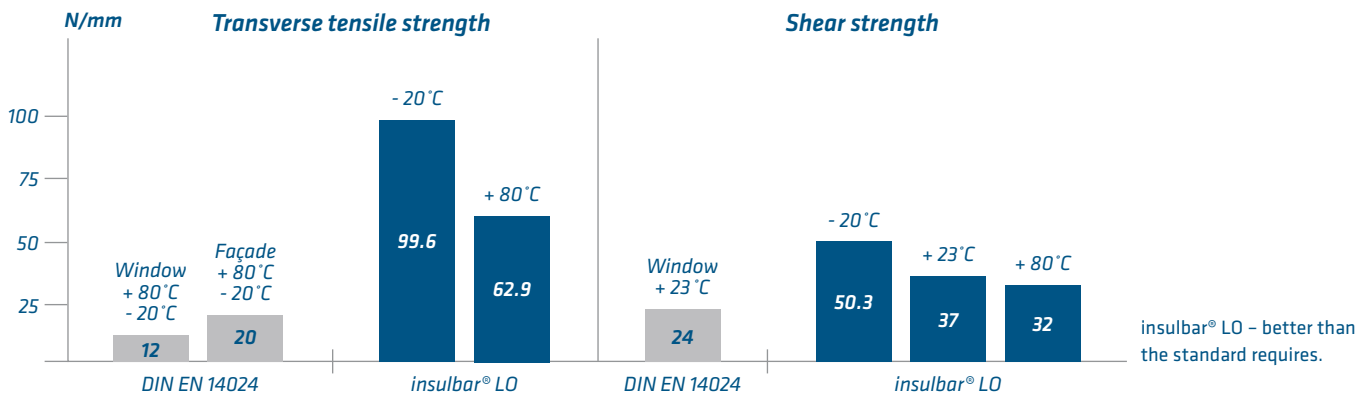
**Effective and tested for suitability:
the intelligent mix**

The low lambda value (0.18 W/m·K) is achieved by means of microscopically small, pore-like cavities in a glass fibre reinforced polymer blend (PA 66 and PPE). The surface of the profile has, in accordance with the Ensinger Patent No. EP 1242709 B2, a compact, smooth structure.

The material enables the required values in line with DIN EN 14024 in respect of transverse tensile strength and shear strength to be achieved. The suitability of the product has been demonstrated by the ift Rosenheim. insulbar® LO thereby enables highly effective thermal insulation while simultaneously preserving the high stability.

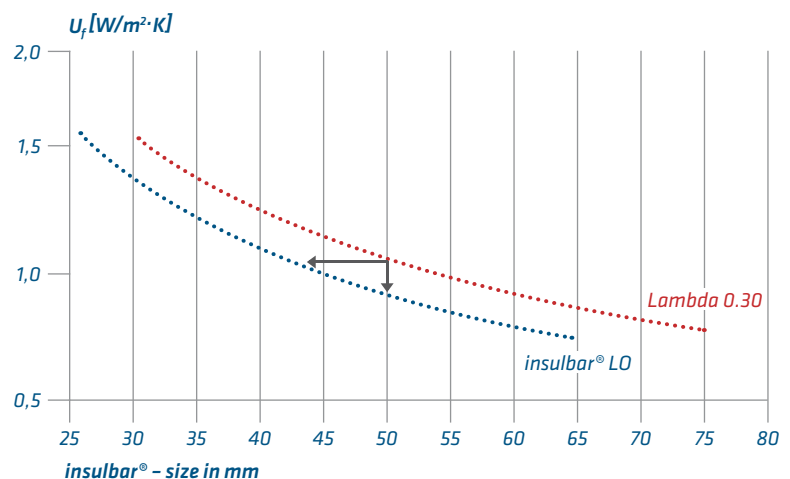


The product patented by Ensinger has a fine-pored structure with closed cells in the core of the profile. The quality structure of the surface corresponds to that of a conventional insulating bar.



**Reduced installation depth –
increased efficiency**

The possibility of achieving reduced installation depths with the same or indeed a lower U_f value leads to a “slimming-down” of the systems – and hence, alongside improved appearance, also conservation of resources. This is because the smaller the installation depth, the less material input, e.g. for insulating bars, central gaskets, insulating foams and glass rebate insulation. As slim systems are also correspondingly lighter and more manageable, they can be transported and installed more easily, which can generate advantages in terms of time and costs.



insulbar® LO makes it possible: the same U_f value with smaller insulating bars – for reduced installation depths, better visual appearance and greater efficiency.

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