

Twice the ecological impact

insulbar® RE-LI

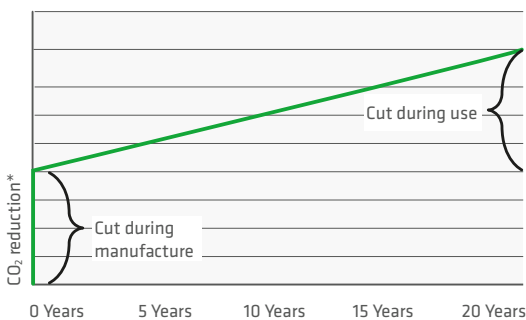
Our greenest insulating bar: insulbar RE-LI combines the outstanding environmental footprint of a recycled material with the greater insulating effect of foamed polyamide 66. By choosing insulbar RE-LI, you cut emissions of the climate-damaging gas carbon dioxide twice over - in manufacture and during the product's service life. This makes it ideal for environmentally friendly, green construction and building certifications.

The perfect combination

insulbar RE-LI is manufactured from 100 % recycled polyamide. Ensinger applies a sophisticated upcycling process to the raw material, making its material properties equivalent to those of primary polyamide 66. Thanks to the use of recycled material, 84 % fewer greenhouse gases are generated in the manufacturing phase, and also 99 % fewer fossil resources are used (Source: Environmental Product Declaration EPD-IBP-14.2, ift Rosenheim).

Using a special technique, the glass fibre reinforced material is foamed during extrusion. The result of this is a porous structure with even pore distribution over the cross section of the insulating profile. This special structure gives insulbar RE-LI a lower density and thereby particularly low thermal conduction capacity (0.21 W/m · K^{**}). The enhanced insulating effect means that during the entire service life, CO₂ emissions are more heavily reduced as compared with solid PA 66 GF.

Reduction in the CO₂ emissions



CO₂ reduction in a window with insulbar RE-LI compared with a window with a conventional bar

*Schematic representation; specific figures for reduction dependent on several parameters, individual calculation on request

Important benefits at a glance

- Conserving double the resources: combines the outstanding environmental footprint of a recycled material with the greater insulating effect of foamed PA 66.
- Low lambda value: 0,21 W/m · K^{**}
- Material with known and valued properties
- Ideal combination of cost-effectiveness and sustainability
- Cradle-to-Cradle Material Health Certificate
- Complete with environmental declaration: ideal for green construction

** in the product optimum

