

Press Release

November 5, 2018

Ensinger presents shear-free insulating profiles for metal doors

Usually it's the weather's fault when a metal door sticks. If the sun shines, its outer side expands. If it's cold outside, however, the door bulges inwards. A shear-free insulbar insulating profile from Ensinger (patent pending) minimises this deformation.

Plastics specialist Ensinger has developed a solution for reducing the impact of the bi-temperature effect (also called the bi-metal effect): The new insulating profile consists of two intermeshing parts which, in the event of differing linear expansion between the aluminium shells, move against each other.

“Our new bar has allowed us to create an adaptable insulation zone between the outer and inner shell of a metal door”, explains Matthias Rink, Sales Director for insulbar. “The intermeshing profile sections even out the temperature-related linear expansion. At the same time, the design provides high transverse tensile strength.”

The shear-free insulbar profile can be rolled up and laminated like a conventional insulating bar. It is available in different sizes between 20 and 42 mm. In the [insulbar Finder](#), with Ensinger's standard profiles, it is listed under the “Geometry” tab in the “Special applications” section.

Further information on insulbar insulating profiles: www.insulbar.com

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Ensinger is exhibiting:

Veteco

13 -16 November 2018
Madrid, Spain
Hall 9, Stand F08

Bau

14 - 19 January 2019
Munich, Germany
Hall B1, Stand 430

Photos

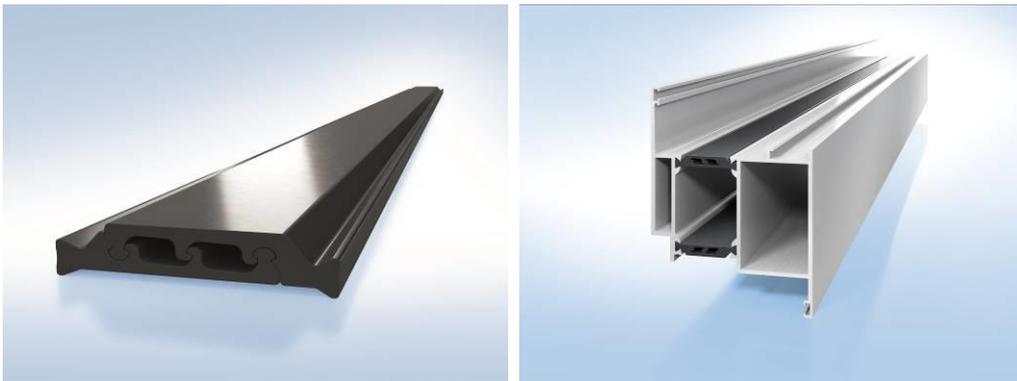


Fig. 1a and b: The shear-free insulbar insulating profile from Ensinger evens out the temperature-related, differing linear expansion of the aluminium shells and simultaneously provides high transverse tensile strength.

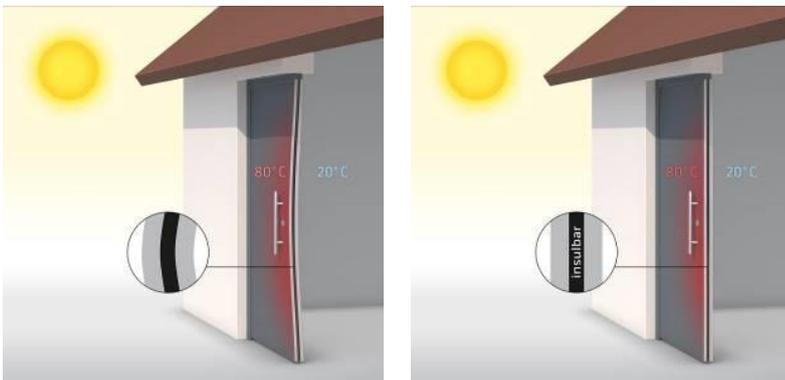


Fig. 2: Aluminium assembly with normal insulating profile: The large temperature difference causes the door to become deformed; Fig. 3: Aluminium assembly with shear-free insulbar insulating profile: the flexible insulation zone evens out the differing linear expansion between the inner and outer shells effectively.

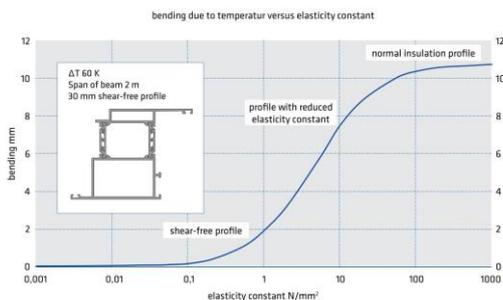


Fig. 4: Shear-free insulbar insulating profile: The shear rigidity c is almost zero. Bending of the door is thus significantly minimised.

Picture credits: Ensinger GmbH

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About insulbar®

Ensinger GmbH is one of the world's leading developers and producers of **thermal insulating profiles** for window, door and facade construction. The profiles marketed under the brand name insulbar® create a thermal barrier between the inner and outer shells of metal frames. Insulation solutions using insulbar® profiles achieve the best values in terms of energy saving and reduced heating and air conditioning costs, while complying with the most stringent quality standards in every respect. They have been in successful application the world over for more than forty years. www.insulbar.com

About Ensinger

The **Ensinger Group** is engaged in the development, manufacture and sale of compounds, semi-finished materials, composites, technical parts and profiles made of engineering and high-performance plastics. To process the thermoplastic polymers, Ensinger uses a wide range of production techniques, such as extrusion, machining, injection moulding, casting, sintering and pressing. With 2,500 employees at 33 locations, the family-owned enterprise is represented worldwide in all major industrial regions with manufacturing facilities or sales offices. www.ensingerplastics.com

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