

Press Release

New EPDs for Thermix and insulbar from Ensinger

The certification of sustainable construction products and buildings is being made easier thanks to precise environmental product declarations from the ift Rosenheim

Plastics specialist Ensinger is strengthening its commitment to “green” construction. There is now an Environmental Product Declaration (EPD) for the insulated glass spacers Thermix TX Pro and Thermix Low Psi. In addition, the EPD for insulbar insulating profiles for thermal separation in windows, doors and façades made from metal has been updated. The EPDs illustrate – with the aid of key figures – the environmental impact of the thermally insulating construction products from Ensinger across their entire production process.

Within the context of the life-cycle assessment, the *Institut für Fenstertechnik* [Institute of Window Technology] ift Rosenheim analysed comprehensive data on the lifecycles of insulbar and Thermix “from the cradle to the factory gate”, in other words from raw material extraction through to sale and distribution. It also took into account the disposal and/or recycling. The environmental product declaration now contains reliable values whose purpose is to provide evidence of sustainability to processors as well as to building owners, planners and architects.

Life-cycle assessments pay dividends

“With Thermix and insulbar we are helping to increase the energy efficiency of buildings in a sustainable manner”, explains Rolf Friedrich Buhl, who is in charge of worldwide sales of Thermix spacers for the warm edge in insulating glazing. “For a long time now, it has been possible to calculate to what extent the optimised thermal insulation pays off as a result of lower energy consumption. With the EPD we are going one step further and supplying sound data in order

Ensinger is exhibiting:

PENCERE EURASIA

6 - 9 March 2019

Istanbul, Turkey

MADE EXPO

13 - 16 March 2019

Milan, Italy

Stand 03 - F11 G14

CHINA GLASS

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Beijing, China

BATIMAT

4 - 8 November 2019

Paris, France

Stand 5A-L77

FENESTRATION BAU

5 - 8 November 2019

Shanghai, China

to prepare comprehensive life cycle assessments for systems which our products are used in.”

“In house, too, the EPD provides us with valuable pointers”, adds Matthias Rink, Head of Sales for insulbar at Ensinger. “The data calculated by the ift Rosenheim help us to further optimise processes and products in respect of environmental objectives. With insulbar RE from unmixed recycled polyamide, for example, we have been able – among other things through the use of green electricity – to reduce the CO₂ footprint by approximately another 50 percent compared with the previous EPD. This in turn has a positive impact on the EPDs of windows and buildings.”

Certifications on the increase worldwide

Furthermore, EPDs support distributors and processors with fulfilling the increasing environmental requirements of building owners and architects in invitations to tender. According to the “[World Green Building Trends 2018](#)” study by Dodge Data & Analytics, out of more than 2000 construction specialists 69% indicated that more than 15% of their projects are designed for sustainability. 83% are anticipating a significant increase by 2021. Customer requirements, environmental regulation and the desire for healthier buildings are driving demand.

[The IMARC Group, a market research company](#), estimates that the global market for “green” construction products will grow by an annual 11.7% to 387.9 billion USD by 2023 . In many countries there are already plans for institutional buildings to be constructed in line with sustainability criteria. For commercial projects and residential buildings, too, be they new builds or renovated properties, certifications in accordance with sustainability standards such as DGNB, LEED or BREEAM are gaining ground worldwide. Here, the EPDs for insulbar and Thermix come into play.

Further information: www.thermixspacer.com, www.insulbar.com

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Photos:



Picture 1: EPD for Thermix: Klaus Esser, Sales Manager for Thermix at Ensinger (left) receives the EPD for the warm edge spacers Thermix TX Pro and Thermix Low Psi at BAU 2019 from Florian Stich, Deputy Head of Sustainability at the ift Rosenheim (right).



Picture 2: EPD for insulbar: Matthias Rink (left), Head of Sales for insulbar at Ensinger GmbH is delighted about the EPD for the insulbar insulating profiles. Right: Vivien Zwick, Project Engineer at the Certification and Monitoring Body for Sustainability, ift Rosenheim.

Pictures courtesy of: ift Rosenheim

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About Thermix®

Thermix® **spacers** improve the thermal separation of insulated glass windows, doors and facades. This helps save energy and consequently heating and cooling costs as well as cutting carbon emissions. As an insulated glazing edge bond system, Thermix® spacers provide a "warm edge". In addition, Thermix® muntin bars produce the appearance of a genuine lattice window but with an excellent level of insulation. Both products can be simply and efficiently processed. Specially developed corner keys and straight connectors ensure well-fitting and secure connections every time. Thermix® is a brand of Ensinger, one of the leading specialists in high-performance plastics. For more information, go to: www.thermixspacer.com

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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