

INNERGY®

Rigid Thermal Reinforcements

The High-Performing Alternative to Aluminum Inserts



A Bayer Material Science LLC and Deceuninck Collaboration

Unparalleled Benefits **IN**line with Exceptional Features for the Home

Inside Innergy is the power to change the way to think about what goes on inside windows and doors.

INSide the Science

Innergy is the product of advanced engineering and world class material science research. Developed by Deceuninck under an exclusive material agreement with Bayer MaterialScience LLC, Innergy puts together Bayer’s experience in custom polyurethane resin system development and Deceuninck’s experience in window systems design and manufacturing for a quantum leap forward.

Green **IN**side and Out

Innergy looks green because it is – starting with an up to 20-percent bio-based resin component in its proprietary formulation. Incorporating soy and other renewable sources, the composite offers strength, stability and flexibility without using styrene or peroxide.

But the real green story is the superior thermal performance which enables Innergy to be an excellent energy saving addition to every window and door – virtually impermeable to cold or heat and extremely resistant to condensation.



FEATURES	BENEFITS
Direct replacement for aluminum reinforcements with better performance characteristics	Improves window thermal and structural performance
Co-developed under an exclusive agreement with Bayer Material Science	Tested & proven technology backed by a global materials manufacturer
Fiber glass reinforced pultruded product made with resin that is up to 20% bio-based, made from soy and other renewable resources	Utilizes materials that are renewable and bio-based
Up to 700 times better thermal performance versus aluminum (when comparing material to material)	Virtually eliminates the thermal bridge that exists with other metal reinforcements
Resists condensation	Helps prevent staining that can occur with other metal reinforcements
Superior impact performance	Will not permanent set under sustained high winds

**THE SECRET INSIDE
NEW ENERGY SAVINGS.**

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Rigid Thermal Reinforcements

Innovative Thermal Performance 700 Times Better Than Aluminum

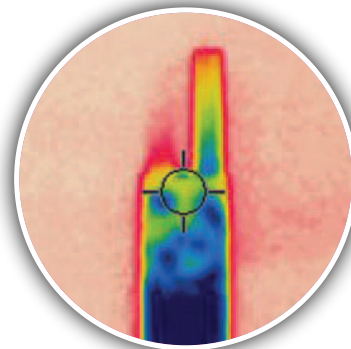
Innergy is the innovative, energy-efficient alternative to aluminum.

As the next-generation of thermal reinforcement for the industry, Innergy is able to deliver a quantum leap above aluminum in how windows and doors perform:

- ▶ **Better thermal performance**
Up to 700 times better than aluminum in material-to-material comparisons.
- ▶ **Better thermal break**
Impervious to cold or heat
- ▶ **Better protection against condensation**
Helps prevent staining that can occur with metal reinforcements
- ▶ **Better impact testing**
Resistance to impact versus other reinforcement products
- ▶ **Better flexibility**
Will not permanently set when impacted



▶ Innergy and Aluminum in a 32 degree ice bath



▶ Infrared analysis shows major conductivity in aluminum and virtually none with Innergy*

* Photos taken after one hour ice bath

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windows



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