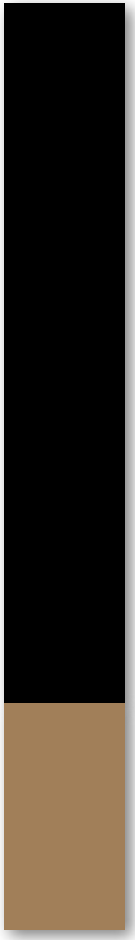
TECHNOFORM

# Efficient, sustainable and bio



**Thermal edge bond solutions for insulating glass**

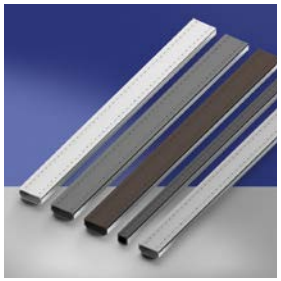
# TGI-Spacer M Bio delivers the performance


## Energy efficiency

An innovation in Warm Edge technology with a new thermally optimized and sustainable spacer.

## Adaptability

Optimized profile geometry, high productivity and multiple operating methods, thanks to the patented reinforcing wires.



## Range

A varied product range: dimensions from 10 to 20 mm and 6 available colors. Other dimensions and colors can be developed on demand.

# TGI-Spacer M Bio preserves the planet

## TGI-Spacer M Bio, the leading Warm Edge spacer in a bio-based version

Illustration of the label E+C-

The French **label E+C-** (positive energy buildings and reduced carbon footprint) prefigures the next French thermal regulation (RT 2020). The greenhouse gases emitted, especially during the construction phase of a building, become an essential parameter for prescribers.

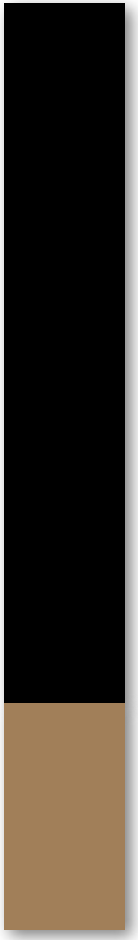
With its bio-based polymer, the **TGI-Spacer M Bio** reduces the $CO_2$ footprint but also the fossil energy demand necessary to manufacture insulating glass components. In addition, its high-level thermal performances support building certifications such as **NF HQE™**, **LEED®**, **BREEAM®**, **DGNB®** and the label **E+C-**.

| Window frame | Aluminum | | PVC | | Wood | | Wood/Aluminum | |
|---|---|---|---|---|---|---|---|---|
| **Double glazing** | **2 IG** | | **2 IG** | | **2 IG** | | **2 IG** | |
| | Aluminum spacer | TGI-Spacer M Bio | Aluminum spacer | TGI-Spacer M Bio | Aluminum spacer | TGI-Spacer M Bio | Aluminum spacer | TGI-Spacer M Bio |
| ψ-Value | 0,111 W/mK | 0,051 W/mK | 0,077 W/mK | 0,041 W/mK | 0,081 W/mK | 0,042 W/mK | 0,092 W/mK | 0,045 W/mK |
| **Triple glazing** | **3 IG** | | **3 IG** | | **3 IG** | | **3 IG** | |
| | Aluminum spacer | TGI-Spacer M Bio | Aluminum spacer | TGI-Spacer M Bio | Aluminum spacer | TGI-Spacer M Bio | Aluminum spacer | TGI-Spacer M Bio |
| ψ-Value | 0,111 W/mK | 0,046 W/mK | 0,075 W/mK | 0,040 W/mK | 0,086 W/mK | 0,041 W/mK | 0,097 W/mK | 0,044 W/mK |

IFT Rosenheim test report No. 16-002577-PR05. The method for the arithmetical determination of the psi values has an accuracy of ± 0,003 W/mK. Differences of less than 0,005 W/mK are not significant.

DIN EN 1279 2, 3, 6

DIN EN ISO 4892-2 (UV-Test)*

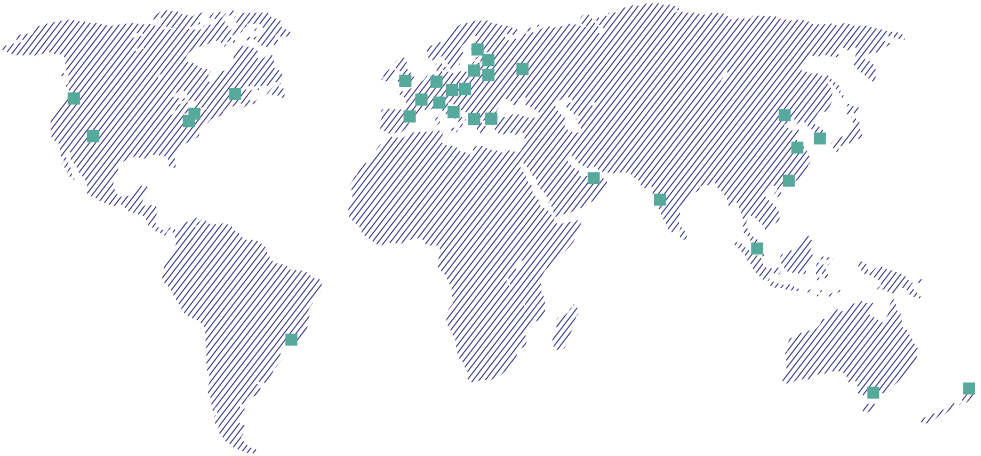


Connector also made of bio-based polymer.

# In plastics extrusion we excel

**Simply mentioning that we specialize in plastics extrusion is quite an understatement.** Technoform offers an array of unrivaled tailored and standard plastic solutions for a great number of industries all across the globe.

This spans from thermal edge bond solutions for architects, building planners, manufacturers of insulating glass units, a vast range of insulation solutions for aluminum windows, doors, and facades, to high-precision custom designs and system components for the automotive, aviation, and electrical engineering industries – just to name a few.



**Technoform is the world first spacer manufacturer to offer the Life Cycle Assessment of its products!**

As part of our company philosophy, **sustainability** also means transparency of our environmental impact.
The Life Cycle Assessment is the first step to work on for better environmental performances and higher scores on the green building certifications (BREAM, LEED...).

Technoform is proud to announce that 2 LCAs are now supplied:

• TGI-Spacer M • TGI-Spacer M Bio

**www.technoform.com**