

A low-angle, upward-looking photograph of several tall skyscrapers with glass facades, creating a sense of height and architectural scale. The sky is overcast and grey.

**CRACKING
THE CODE
ON THERMAL
PERFORMANCE**

FrēMarq™
INNOVATIONS
THE END OF COMPROMISE®

What if you no longer had to compromise between structure, esthetics, thermal efficiency, and budget when you spec a window or curtain wall for your building?

If only the architect could just:

- Spec the required U-value, CRF and inside frame temperature,
- Design the building to look great using as much glass on the exterior as she wants while maintaining structural integrity,
- Satisfy the building owner's need for reasonable initial and ongoing HVAC costs,
- Meet all required codes well into the future, and
- Do all this within budget.

This would put an end to the endless compromises—trading off one factor for another—that have to date been the norm in building projects.

No more thermal breakdown

The FreMarq Frame™—our patented, intelligent thermal barrier solution—makes this possible for the first time since curtain walls made their appearance in the late 1800s. And will continue to make it possible all the way through to the 2030 Challenge and beyond.

Highest thermal performance*

- U-values 15-20% lower than any competing product (using the same 1" insulating glass)
- CRF of 82 (15% better than comparable products)
- Interior frame temperature of 61° in cold weather, compared to the low 50°s achieved with any other product. In hot weather, our frame's interior frame temperature remains in the 70°s while competitive products are in the 90°s.

(* Note: the claims stated here are the result of extensive testing and all well documented.)

No compromise

In terms of thermal performance, the FreMarq Frame starts at a point the competition cannot even reach, and goes forward from there. Without any downside. It is the architect's dream.

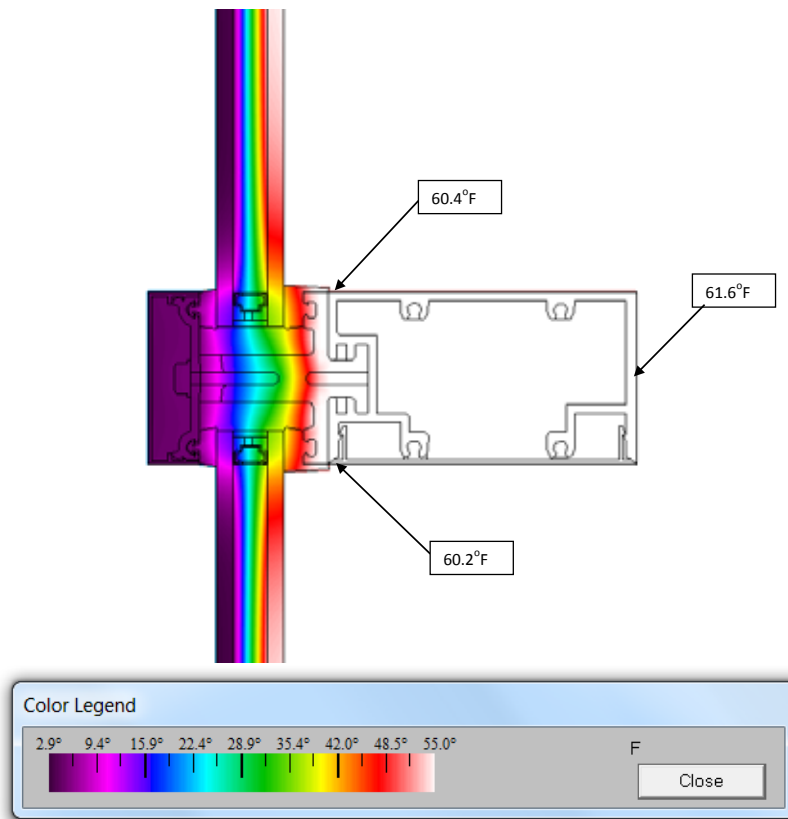
- The same structural characteristics as the thermally lower-performing products.
- Lower overall costs for the building owner, especially over time due to lower annual energy spend. The same or better thermal performance using less expensive glass. (Building owners using our patented FreMarq Frame have found they can save at least 5-7% per year in cold climate mechanical costs while eliminating condensation, and at least 20-25% per year in hot climate mechanical costs.)
- Future-proof. (Our thermal break technology is already ahead of ASHRAE 2020, in all zones 1-8.)

- Requires smaller HVAC systems due to better thermal efficiency (when we are involved early in the planning process).
- Greater architectural design flexibility, permitting a larger glass surface area while remaining within code.
- Works with structural glazing (silicone) on the exterior for an all-glass or frameless appearance.
- Better occupancy comfort due to our frame's unique ability to moderate temperature extremes.
- Larger usable floorspace with the same floor plan (with our frame the entire space can be used).
- FreMarq's thermal barrier frame system has been tested for water and air penetration and found to be at the highest end of the industry.
- Our frame system provides the sustainability aspects of aluminum and fiberglass.

The first intelligent thermal barrier solution™

It's no secret. Every other system of curtain wall insulation available misses the key point. If any part of the interior aluminum framing comes in contact with exterior elements, there is an immediate **thermal breakdown**.

The FreMarq patented frame system completely isolates the inside metal frame from the glass. There is no contact whatsoever. This patented fiberglass insulation system developed by FreMarq is like a brick wall which the cold or the heat cannot penetrate.



We truly offer what no other company can, connecting the dots others miss. With performance no other company can touch. Call us today to arrange a time for us to explain how easily we achieve this and how it will impact your project and your clients' energy consumption and comfort.

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US Patent No. 9,663,946 and other US and foreign patents pending.
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