Aluminum Curtain Wall + Fiberglass Vent Adapters = More glazing area and code compliance.
Using fiberglass frames for curtain wall vent adapters greatly improves the overall aluminum curtain wall's overall U-value.

### CASE STUDY

Given: curtain wall area of 8,000 SF total, and a U-value of 0.36 for the fixed (non-operable) portion.

If eight percent of the curtain wall area is aluminum vent adapters – with U-0.55 – then the overall system thermal performance diminishes to U-0.38 – a 5% drop in total performance. A fiberglass vent adapter for the same eight percent area (with U-0.29) actually improves the overall system to a new U-value of 0.35. This is a 3% improvement over the fixed area alone, and an 8% improvement, compared to the results with the aluminum adapters.

This increased – instead of reduced – thermal performance enables designers and glaziers to use more economical glazing systems and/or more glazing area than would be possible with conventional aluminum vent adapters.

### SUMMARY

- Fixed curtain wall area: U-0.36
- Make 8% area vent aluminum vent adapters; overall = U-0.38
- Change the 8% vent area to fiberglass adapters; overall = U-0.35
- Overall difference due to fiberglass adapters = 8% improvement