MFI™ SYSTEM RAINSCREEN ATTACHMENT:
Adjustable + Versatile + Engineered = Simple

The Knight MFI™ System dramatically reduces the thermal bridging within rain screen systems using mineral fiber insulation, while providing limitless design options for building facades; combining energy efficiency, façade versatility, and long term sustainability.

The MFI System uses unique thermally isolated intermittent clips — called Thermabrackets™ — that can be spaced all the way up to 32” O.C. They use a unique thermal isolation assembly, called ThermaStop™, creating one of the most thermally efficient mineral fiber cladding attachment systems on the market today — typically outperforming standard metal clips and rails and even FRP brackets and rails.

The continuous rails attaching to the brackets may be oriented vertically or horizontally for maximum design versatility and quick installation. Quickly plumb facades during install with an adjustable rail/bracket connection or use KWS unique, self-aligning, structural shims. The MFI System can be used with or without secondary rails for fiber cement, metal panels, terra cotta, phenolic panels or Aluminum Composite Material (ACM) and many more.

LOST R-VALUE DUE TO THERMAL BRIDGING WITH*:

<table>
<thead>
<tr>
<th>System</th>
<th>Lost R-Value</th>
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</thead>
<tbody>
<tr>
<td>Knight MFI System</td>
<td>13% - 24%</td>
</tr>
<tr>
<td>Fiberglass Brackets</td>
<td>23% - 31%</td>
</tr>
<tr>
<td>Aluminum Brackets</td>
<td>30% - 46%</td>
</tr>
<tr>
<td>Horizontal Z-Girts</td>
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<tr>
<td>Vertical Z-Girts</td>
<td>49% - 67%</td>
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*Lost R-Value percentage will vary based upon exact wall assembly. Values shown assume a typical 16” OC steel stud wall and 24” spacing of horizontal girts and bracket assemblies with varying thicknesses of exterior insulation.
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**LOST R-VALUE DUE TO THERMAL BRIDGING WITH***:

- **KNIGHT MFI SYSTEM:** 13% - 24%
- **FIBERGLASS BRACKETS:** 23% - 31%
- **ALUMINUM BRACKETS:** 30% - 46%
- **HORIZONTAL Z-GIRTS:** 38% - 56%
- **VERTICAL Z-GIRTS:** 49% - 67%

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Advantages to the Knight MFI™ System Rainscreen:

- Brackets can be spaced all the way up to 36” O.C. vertically, and 16”, 24” or 32” O.C. (every other stud)*

- Support cladding weighing up to 20 PSF*, unlike many other attachments

- Quickly plumb facades during install with an adjustable rail/bracket connection or use unique, self-aligning, structural shims

- Real labor savings – no trimming of exterior mineral fiber insulation required for a tight fit unlike other clips or brackets

- Highly corrosive-resistant Zn-Al-Mg ZM40 (ASTM A1046) coated steel for long service life vs. typical G90 Galvanized steel

- Black PVDF finish and stainless steel options are available, competitively priced

- ThermaBrackets delivered with thermal isolation preassembled to the jobsite, ready to install

- Easily installed over any type of substrate – steel studs, wood studs, CMU, concrete, even brick

- Engineering calculations provide design load compliance for each specific project

- Attach nearly any cladding – supplied by any manufacturer – with easy and efficient detailing and installation

- Use any manufacturer’s mineral fiber insulation that meets code requirements

- Attach cladding directly to the MFI System rail or add optional secondary rails (such as PanelRails or RevealRails)

- Perforated rails provide a continuously ventilated rainscreen cavity

- Pre-engineered and 3rd party tested for proven performance and durability

- Competitive, budget conscious assembly that meets ASHRAE 90.1 standard

- Complete, drop-in rainscreen attachment system – thermally isolated brackets, fasteners, rails and engineering – one source liability for the whole system

- Limited labor and material warranty

*Maximum allowable spacing and dead load (weight of cladding) is based on the total load (dead + live) acting on the assembly and connections. Wall anchors must be specified and supplied by KWS for a written limited warranty. Knight will specify the exact anchor type, embedment depth and spacing for anchors when project specific engineering packages are supplied. Contact KWS for more information.