YHS 50 TU
Thermally Broken, Impact Resistant and Blast Mitigating Storefront

Versatile Storefront Protection

The YHS 50 TU is a high performance storefront system designed for insulating glass 1” to 1-5/16” thick. With varied infill and components, YHS 50 TU can meet the requirements for Impact Resistance and/or Blast Mitigation. Our system is thermally broken by ThermaBond Plus® technology. The YHS 50 TU integrates with H and HL Series entrances with medium or wide stiles. Entrances feature a wide variety of tested and approved hinging and locking hardware, including rim panic and concealed vertical rod exit devices.

Product Options & Features

- **Hurricane Impact** - Large and Small Missle
  - IBC and Florida Product Approval
  - Wind Zone 3 & Florida HVHZ
- **Blast Mitigation** - Static and Dynamic Analysis capability to meet DoD, GSA and VA standards
- Design Pressures up to 70 psf
- Engineered corners reduce job time
- Inside or outside glazing available

**U-Factor**  Values as low as 0.38*

**CRF**  Minimum 57 frame & 78 glass

*Based on AAMA 507. Lower values may be achieved through further simulation.
**SYSTEM SPECIFICATIONS**

<table>
<thead>
<tr>
<th>System Sightline</th>
<th>Base Depth</th>
<th>Glazing &amp; Config</th>
<th>Glass</th>
<th>Air Infiltration</th>
<th>Water Infiltration</th>
<th>Acoustical Performance</th>
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</thead>
<tbody>
<tr>
<td>2-1/2&quot;</td>
<td>5&quot;</td>
<td>Inside or Outside &amp; Center Set</td>
<td>1-5/16” Laminated Insulating</td>
<td>0.06 CFM/FT² (1.10 m³/h·m²) @ 6.24 PSF (299 Pa)</td>
<td>Static: 12 PSF (575 Pa)</td>
<td>Lam STC: 39 Lam OITC: 33</td>
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**Testing Standards**

- ASTM E 283
- ASTM E 331 & AAMA 501
- ASTM E 90 & 1425

**Florida Product Approval**

- Wind Zone 3 and HVHZ

**Available Finishes**

- Factory Anodized (AAMA 612) and Organic Paints (AAMA 2605)

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**INDUSTRY-LEADING SILL FLASHING**

- **Taller back leg** - Enhanced water resistance (12 psf) in the field and in testing
- **Patented 3 Point End Dam Attachment** - Greater protection against handling damage and building settling
- **No blind seals** - Eliminates secondary penetration of the sill flashing

ThermaBond Plus® process is a pour and debridged process from YKK AP that greatly improves the adhesion of the polyurethane material to the aluminum extrusion. Combining science with technology, ThermaBond Plus® process resolves the problem of adhesion and the resulting dry shrinkage associated with typical poured & debridged systems.

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<table>
<thead>
<tr>
<th>YHS SYSTEM</th>
<th>DESIGN PRESSURE</th>
<th>144” SPAN</th>
<th>108” to 120” SPAN</th>
<th>OUTSIDE GLAZE</th>
<th>IMPACT MISSILES A &amp; D</th>
<th>INSIDE GLAZE</th>
<th>ESSENTIAL FACILITIES</th>
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<tr>
<td>YHS 50 FS</td>
<td>.060 SentryGlass</td>
<td>50 PSF</td>
<td>65-70</td>
<td>90</td>
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<tr>
<td>YHS 50 FI</td>
<td>50 PSF</td>
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<td>YHS 50 TU</td>
<td>50 PSF</td>
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Additional information including CAD details, CSI specifications, Test Reports and Installation instructions are available online at: