YVS 410 TU
Thermally Broken Hung Window with Monolithic or Insulating Glass

Operable Windows

Safety and Performance
The YVS 410 TU Hung Window is designed to capture the side rails of the sash, providing a high level of security and dependability for both new construction and renovation projects. The use of YKK AP’s ThermaBond Plus® pour and debridge system provides superior thermal qualities and a patented process to prevent dry shrinkage. A full selection of quality block and tackle, spiral, and Class 5 Ultra-Lift® balances are available. Optional SecurSweep sweep locks are available that incorporate a special security latch to prevent tampering from the outside.

Product Options & Features
- AAMA/WDMA/CSA 101/1.S. 2-97
  - AW-50 (Operable and Fixed)
- Full selection of block & tackle, spiral, and Class 5 Ultra-Lift® balances
- Standard Heavy Duty Hardware and auto sill locks
- Optional SecureSweep sweep locks
- Factory glazing and screens available
- Full assortment of receptors, sill flashing, stacking mullions, panning, trim, & muntins
- ThermaBond Plus® thermal break

U-Factor Values as low as 0.45*
CRF Minimum 51 frame & 72 glass

*Based on AAMA 507. Lower values may be achieved through further simulation.
YVS 410 TU

SYSTEM SPECIFICATIONS

<table>
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<tr>
<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>4”</td>
<td>Insulating &amp; Single Hung or Double Hung</td>
<td>1” IGU with Low-E (C.O.G. U-factor: 0.29)</td>
<td>0.23 CFM/FT² (5.5m³/h·m²)</td>
<td>Static Operable: 13 PSF (622 Pa) Static Fixed: 13 PSF (622 Pa)</td>
<td>Std STC: 36 Lam STC: 36 Lam OITC: 31</td>
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<tr>
<th>Testing Standards</th>
<th>Structural Performance</th>
<th>Available Finishes</th>
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<tr>
<td>ASTM E 283</td>
<td>AAMA/WDMA/AS:95 &amp; AAMA 501</td>
<td>Factory Anodized (AAMA 612) and Organic Paints (AAMA 2605)</td>
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<tr>
<td>ASTM E 331 &amp; AAMA 501</td>
<td>ASTM E 90 &amp; 1332</td>
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Thermal Performance

1” IGU | BTU/hr-ft²·°F | CRF
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<tbody>
<tr>
<td>C.O.G. U-Factor</td>
<td>0.30 0.28 0.26 0.24 0.22 0.20</td>
<td>Frame Glass</td>
</tr>
<tr>
<td>4” Single Hung</td>
<td>0.52 0.51 0.49 0.48 0.47 0.45</td>
<td>51 72</td>
</tr>
<tr>
<td>4” Double Hung</td>
<td>0.53 0.52 0.51 0.50 0.49 0.47</td>
<td>54 75</td>
</tr>
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Testing Standards | AAMA 507 AAMA 1503

Thermally Broken

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

Additional information including CAD details, CSI specifications, Test Reports and Installation instructions are available online at:
www.ykkap.com/commercial/product/architectural-windows/yvs-410-tu/

HARDWARE OPTIONS

Auto Sill Lock

GRIDS AND PANNING

The first image shows the combination of panning and fixed windows. The second image shows triple hung window openings. The panning shipped in stock lengths and was custom mitered prior to installing the panning.

THERMALLY BROKEN

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