

YVS 410 TU

Thermally Broken Hung Window with 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 ThermoBond 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/I.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
- ThermoBond 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.



**YKK
ap**

Quality
inspires®



YVS 410 TU

SYSTEM SPECIFICATIONS

Base Depth	Glazing & Config	Glass	Air Infiltration	Water Infiltration	Acoustical Performance
4"	Insulating & Single Hung or Double Hung	1" IGU with Low-E (C.O.G. U-factor: 0.29)	0.23 CFM/FT ² (5.5m ³ /h·m ²) @ 6.24 PSF (299 Pa)	Static Operable: 13 PSF (622 Pa) Static Fixed: 13 PSF (622 Pa)	Std STC: 36 Std OITC: 31 Lam STC: 36 Lam OITC: 30
Testing Standards			ASTM E 283	ASTM E 331 & AAMA 501	ASTM E 90 & 1332
Structural Performance			AAMA/WDMA/I.S.2-97 AW Performance Grade 50		
Available Finishes			Factory Anodized (AAMA 612) and Organic Paints (AAMA 2605)		

Thermal Performance						
1" IGU	BTU/hr·ft ² ·°F					
C.O.G U-Factor	0.30	0.28	0.26	0.24	0.22	0.20
4" Single Hung	0.52	0.51	0.49	0.48	0.47	0.45
4" Double Hung	0.53	0.52	0.51	0.50	0.49	0.47
Testing Standards	AAMA 507					

CRF	
Frame	Glass
51	72
54	75
AAMA 1503	

HARDWARE OPTIONS



Auto Sill Lock



Sweep Locks (OPTIONAL)



Class 5 Balance

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

ThermaBond 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, ThermaBond 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/