

YKK aP[®]

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ProTek
YKK AP Hurricane & Blast Solutions



Grand Panama Beach Resort - Panama City Beach, FL

YVS 410 TUH

Impact-Resistant and Thermally Broken Hung Window

The **YVS 410 TUH** ProTek Single-Hung Windows are designed to capture the side rails of the sash, providing a higher level of security and dependability for both new construction and renovation projects. Optional SecureSweep sweep locks incorporate a special security latch to prevent tampering from the outside. This window is designed to have impact resistance with larger sashes and side loads than the YVS 400 TU, but no tilt sash option.

- Integrates easily YFW 400 TUH Fixed Windows using integral mullions.
- Standard Heavy Duty Hardware and auto sill locks with optional SecureSweep locks
- Thermally broken using ThermoBond Plus[®]
- Full selection of block & tackle, spiral, and Class 5 Ultra-Lift[®] balances
- Factory glazing and screens available
- Florida state-wide approval +80/-120 PSF
- Tested for Forced Entry
- Single-Hung: AW Performance Grade 80

Thermal Values:

U-Factor:

Values as low as **0.46***

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

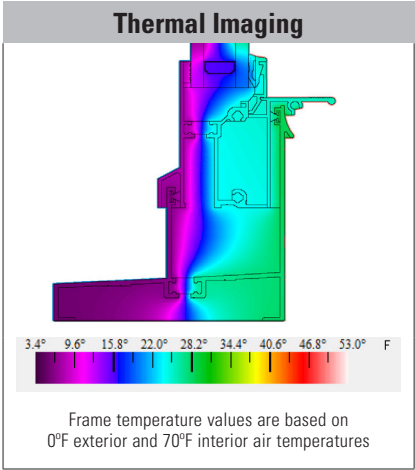


YVS 410 TUH SPECS		
Base Depth	4"	
Sightline	4-7/8" Frame & 2-3/4" Mid	
Config	Single-Hung / Fixed	
Tested Glass	1-1/16" IGU with Low-E (C.O.G. U-Factor: 0.29)	
Test	Results	Standards
Air Infiltration	0.30 CFM/FT ² (16.5 m ³ /h·m ²) @ 6.24 PSF (299 Pa)	ASTM E 283
Water Infiltration	Static: 13 PSF (622 Pa) Dynamic: 13 PSF (622 Pa)	ASTM E 331 AAMA 501
Acoustical* (1" IGU)	Laminated STC: 36 Laminated OITC: 31	ASTM E 90 ASTM E 1425

Thermal Performance								
Window Config	U-Factor - BTU/hr·ft ² ·°F						CRF*	
4" Single-Hung	0.52	0.51	0.49	0.48	0.47	0.46	51	72
Center of Glass	0.30	0.28	0.26	0.24	0.22	0.20	Frame	Glass
AAMA 507							AAMA 1503	

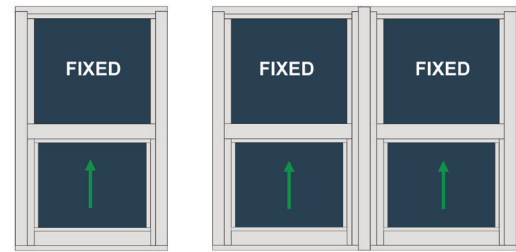
Finish Options	
Type	Standard
Factory Anodized	AAMA 612
Organic Paints	AAMA 2604 AAMA 2605

Impact/Blast Performance	
Large/Small Missile	HVHZ
ICC Compliant	ASTM E 1886/1996
TAS 201, 202 & 203	AW Performance Grade 80

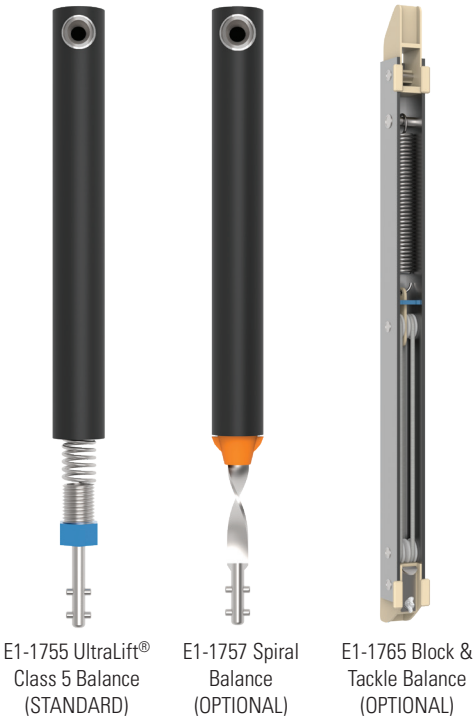
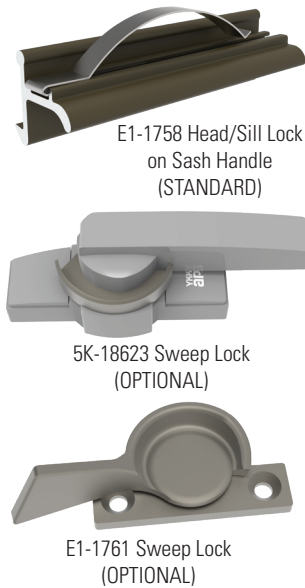


*Testing is based on the YVS 410 TU, non-impact version. Results should be similar.

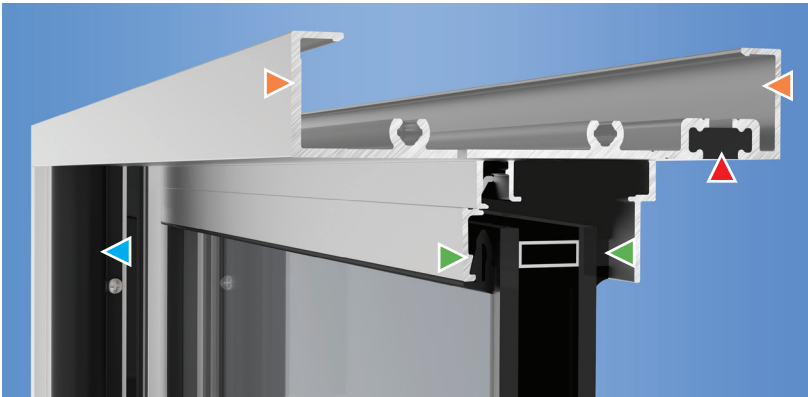
Configurations



Hardware Options



A Closer Look at the System



YVS 410 TUH Design Features

- Equal Legs on Frame for Easy Installation in New Construction or Renovations
- Weatherproof tight sealed gasket on Exterior and Silicone bead glazing for Interior
- ThermaBond Plus® Thermal Break for Superior Thermal Performance
- PVC limit stopper device installed on the rails