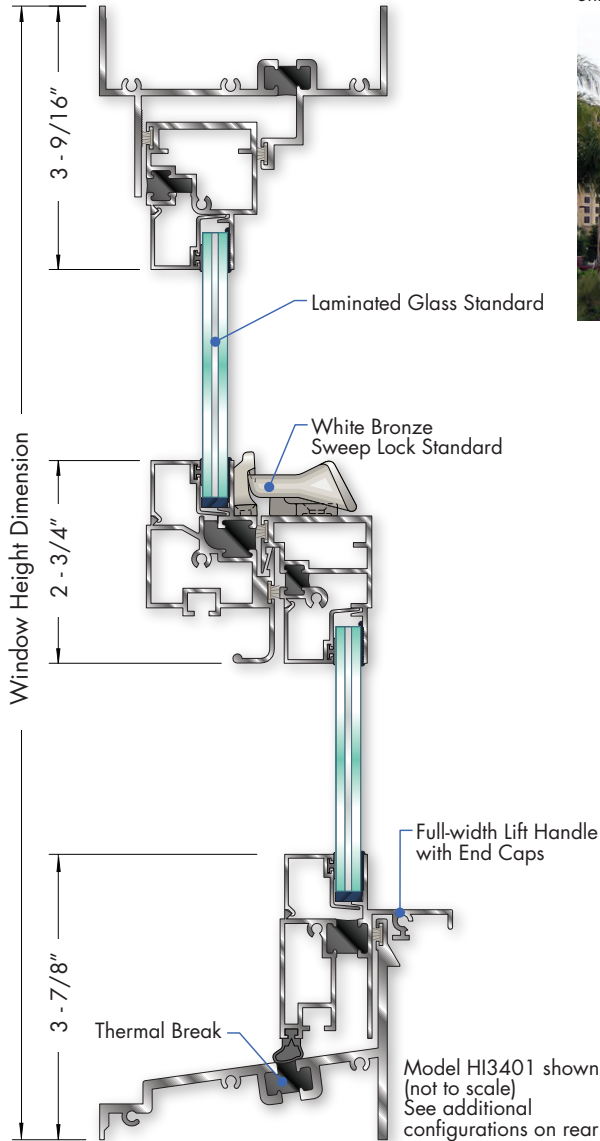




Shingle Creek, Orlando, FL

Shell Point, Ft. Myers, FL



STANDARD FEATURES

- Double-hung tilt-sash windows for hurricane-impact resistance
- Provides large missile impact protection
- Offers passive protection from wind-borne debris - without shutters!
- Thermally broken frame and sash for superior energy savings
- Mulls to fixed and operable products of the same frame depth
- Class 5 Ultra-Lift™ or block & tackle balances for superior operation
- Tilt sash for ease of cleaning; custodially-operated release mechanism
- Full-length extruded lift handles
- Utilizes durable white bronze sweep lock at meeting rail
- Patented integral anti-bow feature in jambs & stiles

INSTALLATION METHODS

- Pre-set panning
 - Trim & clip *
 - Wraparound panning *
 - Receptor & subsill *
- * Currently approved

OPTIONAL FEATURES

- Historic grids
- Blast resistant

SERIES HI3400 4" FRAME DEPTH PERFORMANCE CHARACTERISTICS

Type	Frame Depth (inches)	Series	Model Code	Glazing*	Missile		Florida Product Approval		Design Pressure (psf)		Water (psf)	Test Size (inches)
					Large	Small	Number	HVHZ	Pos (+)	Neg (-)		
Double Hung-Tilt	4	HI3100	HI3101	Single Lami	✓	Meets	10083.5	✓	70	100	10.5	38 x 73½
Double Hung-Tilt	4	HI3400	HI3401	Single Lami		✓	10083.7	✓	70	100	10.5	48 x 72
Double Hung-Tilt	4	HI3400	HI3402	Single Lami	✓	Meets	10083.6	✓	50	75	10.5	48 x 72

*Additional glazing and test configurations may be available - contact Graham.

Series HI3400 DOUBLE HUNG GENERAL SPECIFICATIONS & DETAILS

- **Materials:**
All frame and sash sections shall be thermally broken extruded aluminum shapes produced from commercial quality 6063-T5 alloy
- **Hardware:**
Class 5 Ultra-Lift™ or block & tackle balances for easiest sash operation - even on largest sizes
White bronze sweep locks for strength and extra durability
Tested to impact performance standards
- **Finish Options:**
AAMA 2603, 2604, & 2605, as well as powder coat and anodized finishes, are all available in a wide range of colors
- **Accessories:**
Wide range of panning & trim options available

TESTED TO:
ASTM E1886
ASTM E1996
TAS 201, TAS 202, TAS 203

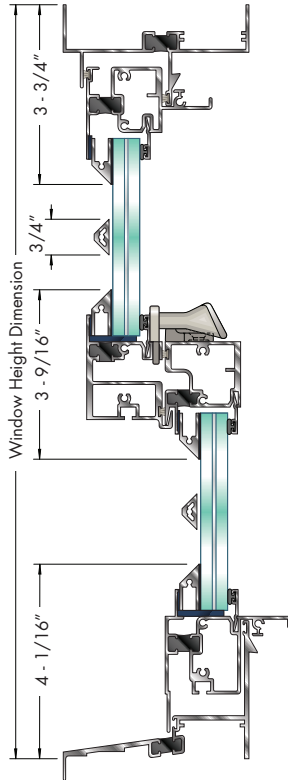
Series HI3100/HI3400 4" Frame Depth
HURRICANE-RESISTANT
DOUBLE HUNG • Tilt Sash

OPERATION

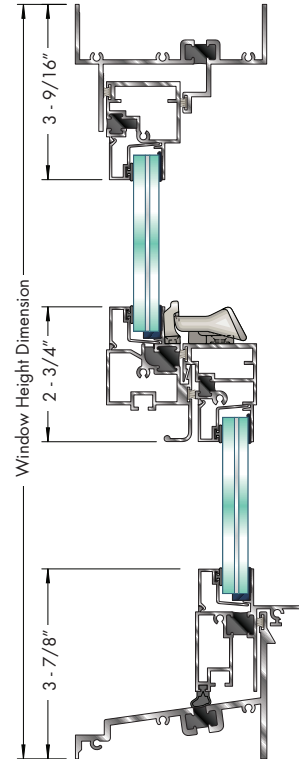


Vertical Cross Section (Not to scale)

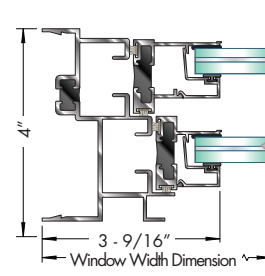
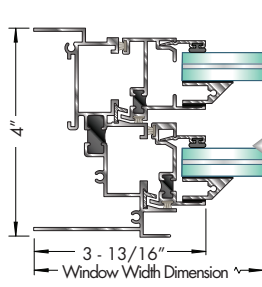
HI3101



HI3402



Horizontal Cross Section at Left Jamb (Not to scale)



HI3101 Features

- Double-hung window with tilt-in sash
- Thermal-break frame and sash
- Single-glazed laminated glass
- Small missile +70/-100 DP performance

HI3402 Features

- Double-hung window with tilt-in sash
- Thermal-break frame and sash
- Single-glazed laminated glass
- Large missile +50/-75 DP performance

*PLEASE NOTE: The illustrations shown are informational only as anchorage requirements vary widely according to application, product size, and performance constraints. Contact Graham's Technical Services Department at 800-755-6274 for project application assistance.